

Storm Data and Unusual Weather Phenomena - August 2013

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

(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	08/26/13 11:00 CST	0	0	Heat
	08/30/13 20:00 CST	0	0	

A large, nearly stationary upper level high centered over eastern Kansas and Missouri and a dome of unseasonably warm air aloft dominated the weather picture from August 26 through August 30, 2013. This was the hottest weather of the entire summer. Maximum temperatures soared into the 90s during much of this period with several locations reporting lower 100's on August 30. In fact, record high temperatures were either broken or tied at Cedar Rapids, Iowa and Moline, Illinois during this heat wave. In addition to the heat, dew points were well in the 60s to lower 70s which pushed heat index values to 100 to 105, with a few locations reporting 110 degrees. Schools without air-conditioning either canceled classes or dismissed students early. In many cities and towns, cooling centers were opened.

STEPHENSON COUNTY --- 0.9 NW FREEPORT [42.29, -89.63]

08/30/13 18:32 CST	0	0	Hail (1.00 in)
08/30/13 18:34 CST	0	0	Source: Public

The public reported hail the size of quarters in Freeport.

STEPHENSON COUNTY --- 0.9 NW FREEPORT [42.29, -89.63]

08/30/13 18:33 CST	0	0	Hail (0.88 in)
08/30/13 18:34 CST	0	0	Source: Trained Spotter

A trained spotter measured dime to nickel size hail in Freeport.

STEPHENSON COUNTY --- 0.9 NW FREEPORT [42.29, -89.63]

08/30/13 18:34 CST	0	0	Hail (1.25 in)
08/30/13 18:36 CST	0	0	Source: Fire Department/Rescue

The fire department reported half dollar size hail falling in Freeport.

STEPHENSON COUNTY --- 0.9 NW FREEPORT [42.29, -89.63]

08/30/13 18:35 CST	0	0	Hail (1.00 in)
08/30/13 18:38 CST	0	0	Source: Public

The public reported pea to quarter size hail in Freeport.

STEPHENSON COUNTY --- 0.9 NW FREEPORT [42.29, -89.63]

08/30/13 18:36 CST	0	0	Hail (1.00 in)
08/30/13 18:38 CST	0	0	Source: Trained Spotter

A trained spotter measured dime to quarter size hail in Freeport.

STEPHENSON COUNTY --- 0.9 NW FREEPORT [42.29, -89.63]

08/30/13 18:40 CST	0	0	Hail (1.25 in)
08/30/13 18:44 CST	0	0	Source: Trained Spotter

A trained spotter measured half dollar size hail falling in Freeport for about 4 minutes. However, no damage was reported.

WHITESIDE COUNTY --- 0.7 S UNIONVILLE [41.81, -89.98]

08/30/13 20:45 CST	0	0	Thunderstorm Wind (EG 51 kt)
08/30/13 20:48 CST	0	0	Source: Trained Spotter

A trained spotter estimated wind gusts to 59 mph knocked 1 to 2 inch diameter limbs off of trees in Unionville.

A cold front dropping southeast into northeast Iowa and northwest Illinois during the early evening hours of August 30, 2013 triggered several severe thunderstorms. The front was encountering a very warm and unstable airmass that had existed for several days. Severe thunderstorms produced hail the size of quarters to half dollars in Freeport in Stephenson county. The hail lasted several minutes but no damage was reported. Also, a trained spotter estimated wind gusts to 59 mph that knocked 1 to 2 inch diameter limbs

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off of trees in Unionville in Whiteside county.

IOWA, East Central and Southeast

LINN COUNTY --- 0.5 E MARION [42.03, -91.59]

08/05/13 05:17 CST	0	Hail (0.88 in)
08/05/13 05:19 CST	0	Source: Broadcast Media

Nickel size hail in Marion reported by KCRG-TV.

JEFFERSON COUNTY --- 1.5 SSE PERLEE [41.06, -91.91]

08/06/13 18:48 CST	0	Hail (1.00 in)
08/06/13 18:50 CST	0	Source: Trained Spotter

A trained spotter reported mostly nickel size hail and several stones the size of quarters near Perlee.

WASHINGTON COUNTY --- 0.5 E KALONA [41.48, -91.71]

08/06/13 20:57 CST	0	Hail (0.75 in)
08/06/13 20:59 CST	0	Source: Trained Spotter

A trained spotter reported pea to penny size hail for several minutes at Kalona.

KEOKUK COUNTY --- 0.5 W SIGOURNEY [41.33, -92.21]

08/07/13 01:40 CST	0	Thunderstorm Wind (MG 51 kt)
08/07/13 01:41 CST	0	Source: Mesonet

A wind gust of 59 mph was measured at a mesonet site near Sigourney.

A compact upper level disturbance slowly tracked from the northern Plains into southeast Iowa during the period of August 5-7, 2013. This was followed by the passage of a cold front on August 7. These synoptic features triggered several marginally severe reports in eastern Iowa. Pea to nickel size hail and a wind gust to near 60 mph were reported by storm spotters.

(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

08/26/13 11:00 CST	0	Heat
08/30/13 18:00 CST	0	

A large, nearly stationary upper level high centered over eastern Kansas and Missouri and a dome of unseasonably warm air aloft dominated the weather picture from August 26 through August 30, 2013. This was the hottest weather of the entire summer. Maximum temperatures soared into the 90s during much of this period with several locations reporting lower 100's on August 30. In fact, record high temperatures were either broken or tied at Cedar Rapids, Iowa and Moline, Illinois during this heat wave. In addition to the heat, dew points were well into the 60s to lower 70s which pushed heat index values to 100 to 105, with a few locations reporting 110 degrees. Schools without air-conditioning either canceled classes or dismissed students early. In many cities and towns, cooling centers were opened.

(IA-Z063) IOWA, (IA-Z076) KEOKUK

08/27/13 00:00 CST	0	Drought
08/31/13 23:59 CST	0	

What started as abnormally dry conditions in early to mid August worsened to a D2 severe drought category during the last week of August across portions of eastern Iowa in Iowa and Keokuk counties. This was due to a warmer and much drier than normal weather pattern. In fact, hot and dry weather the last week of the month, with temperatures soaring well into the 90s, allowed conditions to worsen quickly into a "flash" drought.

DELAWARE COUNTY --- 4.6 ESE EARLVILLE [42.45, -91.19]

08/30/13 18:00 CST	0	Thunderstorm Wind (EG 61 kt)
08/30/13 18:03 CST	0	Source: Emergency Manager

Emergency manager reported 5 power poles down along county Highway X47 southeast of Earlville. There was also damage to crops in the same area along with several branches down. Winds were estimated at 70 mph.

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A cold front dropping southeast into northeast Iowa and northwest Illinois during the early evening hours of August 30, 2013 triggered several severe thunderstorms. The front was encountering a very warm and unstable airmass that had existed for several days. One of the storms produced a 60 mph wind near Earlville in Delaware county.

MISSOURI, Northeast

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

08/26/13 11:00 CST	0	Heat
08/30/13 20:00 CST	0	

A large, nearly stationary upper level high centered over eastern Kansas and Missouri and a dome of unseasonably warm air aloft dominated the weather picture from August 26 through August 30, 2013. This was the hottest weather of the entire summer. Maximum temperatures soared into the 90s during much of this period with several locations reporting lower 100's on August 30. In fact, record high temperatures were either broken or tied at Cedar Rapids, Iowa and Moline, Illinois during this heat wave. In addition to the heat, dew points were well into the 60s to lower 70s which pushed heat index values to 100 to 105, with a few locations reporting 110 degrees. Schools without air-conditioning either canceled classes or dismissed students early. In cities and towns, cooling centers were opened.