

## Storm Data and Unusual Weather Phenomena - August 2015

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>IOWA, Southwest</b>				
<b>SHELBY COUNTY --- 2.3 SSW PANAMA [41.70, -95.50]</b>				
	08/02/15 03:20 CST	0		Hail (1.00 in)
	08/02/15 03:20 CST	0		Source: Trained Spotter
<b>FREMONT COUNTY --- THURMAN [40.82, -95.73]</b>				
	08/02/15 06:55 CST	0		Thunderstorm Wind (EG 52 kt)
	08/02/15 06:55 CST	0		Source: Social Media
Images from social media posts indicate that a downburst occurred in Thurman . Several large tree branches were blown down, and one tree was completely snapped.				
<b>MONTGOMERY COUNTY --- 0.7 S GRANT [41.14, -95.00]</b>				
	08/02/15 17:15 CST	0		Hail (1.00 in)
	08/02/15 17:15 CST	0		Source: Public
<b>MONTGOMERY COUNTY --- GRANT [41.15, -95.00]</b>				
	08/02/15 17:15 CST	0		Hail (1.00 in)
	08/02/15 17:15 CST	0		Source: Public
<b>MILLS COUNTY --- 2.6 SSE MINEOLA [41.11, -95.71]</b>				
	08/02/15 17:34 CST	0		Hail (1.25 in)
	08/02/15 17:34 CST	0		Source: Public
A slow-moving cold front sagged southward through western Iowa and eastern Nebraska during the day on August 2nd. Ahead of the front during the early morning hours the nocturnal low-level jet increased ahead of the front. This allowed for isolated thunderstorms to develop in northeast Nebraska and move into west central Iowa during the early morning hours. Some of these thunderstorms reached severe limits with large hail the main threat. These thunderstorms dissipated in the morning hours, but as the instability increased during the afternoon thunderstorms redeveloped along the cold front. Vertical wind shear also increased during the afternoon as well with some of the thunderstorms becoming supercells producing large hail and damaging winds. The thunderstorms weakened by mid to late evening.				
<b>MONONA COUNTY --- SOLDIER [41.98, -95.78]</b>				
	08/09/15 21:53 CST	0		Thunderstorm Wind (EG 52 kt)
	08/09/15 21:53 CST	0		Source: COOP Observer
Numerous large tree limbs were reported blown down in town.				
<b>PAGE COUNTY --- 2.1 NE BLANCHARD [40.60, -95.19]</b>				
	08/10/15 01:30 CST	0		Hail (1.00 in)
	08/10/15 01:30 CST	0		Source: Public
<b>PAGE COUNTY --- 2.1 NE BLANCHARD [40.60, -95.19]</b>				
	08/10/15 01:30 CST	0		Thunderstorm Wind (EG 52 kt)
	08/10/15 01:30 CST	0		Source: Public
A healthy 15 year old maple tree was blown down.				
A shortwave trough moving quickly through the northern Plains allowed for a seasonably strong cold front to sweep through eastern Nebraska and southwest Iowa late in the day on the 9th of August. Isolated to scattered supercells developed along the cold front as it moved southeast across the area with some of the supercells producing severe weather in the form of large hail and damaging winds, as well as locally heavy rainfall.				
<b>MILLS COUNTY --- 0.5 W GLENWOOD [41.05, -95.78]</b>				
	08/22/15 17:51 CST	0		Thunderstorm Wind (EG 52 kt)
	08/22/15 17:51 CST	0		Source: Social Media
Social media posts from a storm chaser in the area indicated that large street signs had been blown over along highway 34 to the east of Interstate 29. The storm chaser also reported tree damage in the area as well.				

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An unseasonably strong upper-level storm system moved across the northern Plains during the day on August 22nd. This system allowed for a strong cold front to sweep across eastern Nebraska and western Iowa during the late afternoon and evening. Scattered to numerous thunderstorms developed along the cold front from west central Iowa into eastern Nebraska, and moved southeast through the evening. Although the large majority of these storms were sub-severe, isolated reports of large hail and damaging winds were received.

### NEBRASKA, East

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#### BUTLER COUNTY --- 1.0 W BONGERS ARPT [41.23, -97.15]

08/02/15 17:45 CST	0	Thunderstorm Wind (EG 50 kt)
08/02/15 17:45 CST	0	Source: Emergency Manager

Three sections of the center pivot were overturned in a field.

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#### SAUNDERS COUNTY --- 0.5 E MALMO [41.27, -96.72]

08/02/15 18:50 CST	0	Hail (1.25 in)
08/02/15 18:50 CST	0	Source: Social Media

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#### PLATTE COUNTY --- 0.5 W CRESTON [41.70, -97.38], 0.9 NW CRESTON [41.71, -97.38]

08/02/15 19:45 CST	0	Hail (1.75 in)
08/02/15 19:46 CST	0	Source: COOP Observer

The COOP Observer reported hail around 1 inch in diameter, but the public reported hail up to golf ball size.

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#### PLATTE COUNTY --- 4.6 SE CRESTON [41.65, -97.31]

08/02/15 19:56 CST	0	Hail (1.75 in)
08/02/15 19:56 CST	0	Source: Public

Mostly smaller hail, but a few stones up to golf ball size.

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#### PLATTE COUNTY --- 6.6 SE CRESTON [41.64, -97.27]

08/02/15 20:00 CST	0	Hail (1.00 in)
08/02/15 20:00 CST	0	Source: NWS Employee

A slow moving cold front sagged southward through western Iowa and eastern Nebraska during the day on August 2nd. Ahead of the front during the early morning hours the nocturnal low-level jet increased ahead of the front. This allowed for isolated thunderstorms to develop in northeast Nebraska and move into west central Iowa during the early morning hours. Some of these thunderstorms reached severe limits with large hail the main threats. These thunderstorms dissipated in the morning hours, but as the instability increased during the afternoon thunderstorms redeveloped along the cold front. Vertical wind shear also increased during the afternoon as well with some of the thunderstorms becoming supercells producing large hail and damaging winds. The thunderstorms weakened by mid to late evening.

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#### NEMAHA COUNTY --- 10.7 S JOHNSON [40.27, -96.03]

08/08/15 19:43 CST	0	Thunderstorm Wind (EG 70 kt)
08/08/15 19:43 CST	0	Source: NWS Storm Survey

The storm survey found tree damage consistent with straight line winds in this area.

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#### PAWNEE COUNTY --- 7.0 NE TABLE ROCK [40.26, -96.01], 7.1 NE TABLE ROCK [40.26, -96.01]

08/08/15 19:55 CST	0	Tornado (EF1, L: 0.17 mi , W: 150 yd)
08/08/15 19:57 CST	0	Source: NWS Storm Survey

A tornado developed in the extreme northeast part of Pawnee County from a supercell moving southeast . The tornado only occurred for a short distance in Pawnee County before moving into Richardson County. Little damage occurred in in Pawnee County but the tornado was given an EF1 rating based on how extensive the crop damage was from the tornado.

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#### RICHARDSON COUNTY --- 7.4 NW HUMBOLDT [40.26, -96.01], 6.3 NNW HUMBOLDT [40.26, -95.97]

08/08/15 19:57 CST	0	Tornado (EF1, L: 1.99 mi , W: 238 yd)
08/08/15 20:12 CST	0	Source: NWS Storm Survey

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The tornado continued into Richardson County from Pawnee County. The tornado continue to produce little damage in Richardson County as there were little structures for the tornado to impact. Some tree damage was noted along the path in Richardson County as well as continued crop damage. As the tornado dissipated it made a loop near 632nd Ave and move southwest for a short time before finally dissipating .

A seasonably strong jet stream was moving across the northern Plains during the day on the 8th of August. During the late afternoon and evening a warm front lifted north into southeast Nebraska as low pressure associated with the jet streak moved into eastern Nebraska. Thunderstorms developed by mid evening along the warm front producing an isolated tornado and locally heavy rainfall across southeast Nebraska and into southwest Iowa.



*Tornado still from a video shot by storm chaser Chad Cowan in Richardson County on County Road 632 Ave.*

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**ANTELOPE COUNTY --- OAKDALE [42.07, -97.97]**

08/09/15 16:10 CST	0	Hail (1.00 in)
08/09/15 16:10 CST	0	Source: Trained Spotter

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**ANTELOPE COUNTY --- 0.9 NE ORCHARD [42.34, -98.24]**

08/09/15 17:35 CST	0	Hail (1.00 in)
08/09/15 17:35 CST	0	Source: Public

A shortwave trough moving quickly through the northern Plains allowed for a seasonably strong cold front to sweep through eastern Nebraska and southwest Iowa late in the day on the 9th of August. Isolated to scattered supercells developed along the cold front as it moved southeast across the area with some of the supercells producing severe weather in the form of large hail and damaging winds, as well as locally heavy rainfall.

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**SALINE COUNTY --- DE WITT [40.40, -96.92]**

08/22/15 16:20 CST	0	Hail (1.75 in)
08/22/15 16:22 CST	0	Source: Trained Spotter

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Spotter reports in town indicated hail ranged from quarter to golf ball size.

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**GAGE COUNTY --- 1.1 E HOAG [40.32, -96.81]**

	08/22/15 16:59 CST		0	Hail (1.00 in)
	08/22/15 16:59 CST		0	Source: Trained Spotter

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**GAGE COUNTY --- 1.7 SW HOAG [40.30, -96.85]**

	08/22/15 16:59 CST		0	Hail (1.75 in)
	08/22/15 16:59 CST		0	Source: Trained Spotter

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**SARPY COUNTY --- 0.9 SE AVERY [41.16, -95.92]**

	08/22/15 17:32 CST		0	Hail (1.00 in)
	08/22/15 17:32 CST		0	Source: Trained Spotter

**An unseasonably strong upper level storm system moved across the northern Plains during the day on August 22nd. This system allowed for a strong cold front to sweep across eastern Nebraska and western Iowa during the late afternoon and evening. Scattered to numerous thunderstorms developed along the cold front from west central Iowa into eastern Nebraska, and moved southeast through the evening. Although the large majority of these storms were sub-severe, isolated reports of large hail and damaging winds were received.**

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**ANTELOPE COUNTY --- 4.9 NNE TILDEN [42.12, -97.81], 2.5 E NELIGH [42.13, -97.98], 6.3 WNW ELGIN EDWARDS ARPT [42.05, -98.34], 5.6 SSE ELGIN EDWARDS ARPT [41.92, -98.19], 6.1 SSE OAKDALE [41.99, -97.93]**

	08/27/15 22:45 CST		75K	Flash Flood (due to Heavy Rain)
	08/28/15 04:00 CST		50K	Source: Law Enforcement

Local law enforcement, as well as local print media, indicated that flash flooding occurred from heavy repeated thunderstorms across parts of Antelope County. The worst of the flooding was near the areas of Oakdale and Elgin. The flooding led to water covering U.S. Highway 275 and State Highway 70 into the morning on the 29th.

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**ANTELOPE COUNTY --- 0.7 ENE NELIGH ARPT [42.12, -98.02], 4.7 NE NELIGH [42.18, -97.97], 5.9 N TILDEN [42.13, -97.84], 7.5 SSW TILDEN [41.95, -97.88], 2.4 NW ELGIN [42.01, -98.11]**

	08/28/15 04:00 CST		50K	Flood (due to Heavy Rain)
	08/28/15 16:00 CST		0.13M	Source: Newspaper

Local media indicated that areal flooding continued into the morning on the 28 th of August. This included water across U.S. Highway 275 and State Highway 70. In addition numerous farm fields, ditches, and small streams flooded during this time as well. The flooding slowly receded through the morning as the rainfall had ended.

**A slow moving upper level storm system crossed Nebraska during the day on August 28th and into the state of Iowa on the 29th. Seasonably deep moisture combined with the slow moving storm system to produce intense rainfall over parts of northeast Nebraska. Some rainfall amounts ranged from 6 to 8 inches during the evening. The rainfall slowly diminished after midnight.**