

Storm Data and Unusual Weather Phenomena - August 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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IOWA, Southwest

FREMONT COUNTY --- 1.1 NNW RANDOLPH [40.89, -95.57], 1.9 S RANDOLPH [40.84, -95.58], 2.1 SW RANDOLPH [40.85, -95.59], 1.7 NNW RANDOLPH [40.89, -95.59]

	08/28/14 12:26 CST		5K	Flood (due to Heavy Rain)
	08/29/14 06:15 CST		10K	Source: River/Stream Gage

Repeated thunderstorms on the 27th and 28th of August caused heavy rainfall and the West Nishnabotna River to go into flood . The river rose above flood stage on the afternoon of the 28th, the river crested and fell below flood stage that evening. The flooding was generally minor and confined to low-lying areas along the river.

FREMONT COUNTY --- 2.1 NNW RIVERTON [40.71, -95.59], 2.4 WSW RIVERTON [40.66, -95.61], 2.7 WSW RIVERTON [40.67, -95.62], 2.0 WNW RIVERTON [40.69, -95.60], 2.4 NW RIVERTON [40.71, -95.60]

	08/28/14 16:31 CST		5K	Flood (due to Heavy Rain)
	08/29/14 06:15 CST		10K	Source: River/Stream Gage

Repeated thunderstorms on the 27th and 28th of August caused heavy rainfall and the West Nishnabotna River to go into flood . The river rose above flood stage on the afternoon of the 28th, crested that late evening, and fell below flood stage in the early morning on the 29th. The flooding was generally minor and confined to low-lying areas along the river.

PAGE COUNTY --- 3.3 NNE CLARINDA [40.77, -95.01], 1.2 NNE CLARINDA [40.74, -95.02], 1.2 SSW CLARINDA MUNI ARPT [40.70, -95.03], 1.1 SSE CLARINDA MUNI ARPT [40.70, -95.01], 3.1 W HAWLEYVILLE [40.78, -94.98]

	08/28/14 22:23 CST		5K	Flood (due to Heavy Rain)
	08/30/14 02:07 CST		10K	Source: River/Stream Gage

Repeated thunderstorms on the 27th and 28th of August caused heavy rainfall and the Nodaway River to go into flood . The river rose above flood stage on the evening of the 28th, the river crested during the afternoon of the 29th, and fell below flood stage in the early morning of the 30th. The flooding was generally minor and confined to low-lying areas along the river.

Above normal precipitation occurred across most of the region during the month of August. A particularly wet period occurred at the end of the month though as two days of repeated heavy rainfall led to river flooding across parts of eastern Nebraska and western Iowa. Most of the flooding was minor, but did cause some road closures and crop damage.

HARRISON COUNTY --- 0.7 S MISSOURI VLY [41.56, -95.90]

	08/31/14 18:09 CST		0	Thunderstorm Wind (MG 52 kt)
	08/31/14 18:13 CST		0	Source: Mesonet

A local road mesonet station at the intersection of highway 30 and interstate 29 recorded a 60 mph wind gusts. Trained spotters in the area reported that 5 inch tree limbs were downed in the city of Missouri Valley .

SHELBY COUNTY --- 0.9 SW IRWIN [41.79, -95.21]

	08/31/14 18:36 CST		0	Thunderstorm Wind (EG 52 kt)
	08/31/14 18:36 CST		0	Source: Trained Spotter

The gust was estimated by the a trained spotter.

SHELBY COUNTY --- 2.1 SE EARLING [41.76, -95.39]

	08/31/14 18:36 CST		0	Thunderstorm Wind (EG 56 kt)
	08/31/14 18:36 CST		0	Source: Emergency Manager

The emergency manager estimated the gust to 65 mph.

FREMONT COUNTY --- 1.1 W PERCIVAL [40.75, -95.82]

	08/31/14 19:06 CST		0	Hail (0.75 in)
	08/31/14 19:06 CST		0	Source: Trained Spotter

FREMONT COUNTY --- 1.1 W PERCIVAL [40.75, -95.82]

	08/31/14 19:06 CST		0	Thunderstorm Wind (EG 52 kt)
	08/31/14 19:06 CST		0	Source: Trained Spotter

A trained spotter reported wind gusts to 60 mph.

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A seasonably strong upper level storm system swept across the northern Plains during the day on Sunday August 31st. Ahead of the storm system low pressure developed over the high Plains and allowed for warm and moist air to pool over the mid Missouri River Valley creating strong instability by mid to late afternoon. As a cold front and associated upper level jet streak interacted with the instability, thunderstorms developed from northeast Nebraska into Northern Kansas. These thunderstorms moved east through the rest of the afternoon and evening hours, crossing eastern Nebraska and western Iowa produced mainly hail and wind damage, but heavy rainfall also occurred in parts of the area as well.

NEBRASKA, East

CEDAR COUNTY --- 1.5 SSE WYNOT [42.73, -97.16]

08/02/14 20:31 CST		0	Hail (0.88 in)
08/02/14 20:31 CST		0	Source: Public

OTOE COUNTY --- NEBRASKA CITY [40.65, -95.85]

08/03/14 01:55 CST		0	Thunderstorm Wind (EG 52 kt)
08/03/14 01:55 CST		0	Source: Law Enforcement

Pictures from local law enforcement from Nebraska City indicate numerous tree branches broken and a few trees uprooted.

Thunderstorms moved into northeast Nebraska during the evening of August 2nd. These thunderstorms continued to move southeast through the night. The majority of these thunderstorms were non-severe, but an isolated downburst occurred near Nebraska where some tree damage occurred. The thunderstorms continued southeast through the night exiting into northeast Kansas and northwest Missouri.

NEMAHA COUNTY --- PERU [40.48, -95.73]

08/19/14 02:15 CST		0	Hail (0.75 in)
08/19/14 02:15 CST		0	Source: Trained Spotter

Isolated thunderstorms developed after midnight into the early morning on August 20th. The thunderstorms developed behind a weak cold front that was moving into northeast Kansas and northwest Missouri. The thunderstorms were non-severe, but isolated reports of hail were received.

JEFFERSON COUNTY --- 4.4 NNE JANSEN [40.24, -97.05]

08/24/14 23:15 CST		0	Thunderstorm Wind (EG 52 kt)
08/24/14 23:15 CST		0	Source: Emergency Manager

The emergency manger reported that a 2 year old 60 by 90 foot barn was destroyed at a rural residence.

Isolated thunderstorms develop just behind a weakening cold front as the low level jet increased during the evening of August 24th. The thunderstorms were generally non-severe and continued into the morning of August 25th, but an isolated microburst did occur in parts of Jefferson County in southeast Nebraska.

SEWARD COUNTY --- 2.5 WNW SEWARD [40.91, -97.14], 0.9 WNW SEWARD [40.91, -97.11], 0.7 W SEWARD [40.90, -97.11], 1.7 WNW SEWARD [40.91, -97.13], 2.8 WNW SEWARD [40.91, -97.15]

08/28/14 10:06 CST		5K	Flood (due to Heavy Rain)
08/31/14 02:00 CST		10K	Source: River/Stream Gage

Repeated thunderstorms on the 27th and 28th of August caused heavy rainfall and Lincoln Creek to go into flood . The creek rose above flood stage on the morning of the 28th, cresting on the morning of the 29th, and falling below flood stage on the 31st. The flooding was generally minor and confined to low-lying areas along the river.

SAUNDERS COUNTY --- 2.5 W WAHOO [41.22, -96.67], 2.9 SW WAHOO [41.19, -96.66], 1.2 SSE WAHOO [41.20, -96.62], 0.8 E WAHOO [41.22, -96.61], 1.0 WNW WAHOO [41.22, -96.64]

08/28/14 10:30 CST		0.10M	Flood (due to Heavy Rain)
08/29/14 10:30 CST		0.10M	Source: Emergency Manager

Emergency management, media, and various spotters reported widespread flooding in and around the Wahoo area due to heavy overnight rainfall . The flooding began during the mid morning on the 28th, and continued until early the next morning. At the height of the flooding all, but roads except one gravel road were closed in and out of Wahoo. This included United States Highway 77 and Nebraska Highway 92.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
SALINE COUNTY --- 1.7 NW CRETE [40.65, -96.97], 3.3 SSW CRETE ARPT [40.57, -96.94], 3.1 N SHESTAK [40.57, -96.96], 1.8 WSW CRETE [40.62, -96.98], 2.6 NW CRETE [40.65, -96.99]				
	08/28/14 12:48 CST		5K	Flood (due to Heavy Rain)
	08/31/14 23:59 CST		15K	Source: River/Stream Gage
Repeated thunderstorms on the 27th and 28th of August caused heavy rainfall and the Big Blue River to go into flood . The river rose above flood stage on the afternoon of the 28th, the river created on the 31st, and fell below flood stage in early early September. The flooding was generally minor and confined to low-lying areas along the river.				
SAUNDERS COUNTY --- 0.9 SSE ITHACA [41.16, -96.54], 0.3 E ITHACA [41.17, -96.55], 1.6 NW ITHACA [41.18, -96.58], 1.9 WNW ITHACA [41.18, -96.58]				
	08/28/14 13:03 CST		5K	Flood (due to Heavy Rain)
	08/29/14 04:45 CST		10K	Source: River/Stream Gage
Repeated thunderstorms on the 27th and 28th of August caused heavy rainfall and the Wahoo Creek to go into flood . The creek rose above flood stage on the morning of the 28th, the river created during the early morning on the 29th and fell below flood stage later that evening. The flooding was generally minor and confined to low-lying areas along the river.				
SALINE COUNTY --- 3.6 NNE DORCHESTER [40.70, -97.09], 5.3 NNW CRETE [40.70, -97.00], 4.4 NNW CRETE [40.69, -96.99], 4.1 ENE DORCHESTER [40.67, -97.05], 3.1 NNE DORCHESTER [40.69, -97.09]				
	08/29/14 07:30 CST		5K	Flood (due to Heavy Rain)
	08/31/14 23:59 CST		10K	Source: River/Stream Gage
Repeated thunderstorms on the 27th and 28th of August caused heavy rainfall and the West Fork of the Big Blue river to go into flood . The river rose above flood stage on the morning of the 29th, the river created and fell below flood stage in early early September. The flooding was generally minor and confined to low-lying areas along the river.				
Above normal precipitation occurred across most of the region during the month of August. A particularly wet period occurred at the end of the month though as two days of repeated heavy rainfall led to river flooding across parts of eastern Nebraska and western Iowa. Most of the flooding was minor, but did cause some road closures and crop damage.				
BOONE COUNTY --- 0.7 S ALBION [41.69, -98.00]				
	08/31/14 15:21 CST		0	Hail (1.25 in)
	08/31/14 15:21 CST		0	Source: Public
WAYNE COUNTY --- 2.5 NW CARROLL [42.30, -97.22], 4.0 N CARROLL [42.34, -97.18]				
	08/31/14 15:30 CST		0	Hail (1.75 in)
	08/31/14 15:35 CST		0	Source: Fire Department/Rescue
Local fire department spotters reported hail ranging from quarter to golf ball size from northwest of the city of Carroll to north of Carroll.				
BUTLER COUNTY --- 3.6 SSE MILLERTON [41.13, -97.20]				
	08/31/14 16:46 CST		0	Hail (1.75 in)
	08/31/14 16:46 CST		0	Source: Trained Spotter
BUTLER COUNTY --- 0.5 E GARRISON [41.18, -97.16]				
	08/31/14 16:57 CST		0	Hail (1.75 in)
	08/31/14 16:57 CST		0	Source: Emergency Manager
BUTLER COUNTY --- DAVID CITY [41.25, -97.13]				
	08/31/14 16:59 CST		0	Hail (1.00 in)
	08/31/14 17:01 CST		0	Source: Law Enforcement
Local law enforcement reported hail ranging from nickle to quarter size in the city of David City.				
LANCASTER COUNTY --- 2.3 SSE ROCA [40.62, -96.63]				
	08/31/14 17:43 CST		0	Hail (0.88 in)
	08/31/14 17:43 CST		0	Source: Trained Spotter
LANCASTER COUNTY --- 1.7 ESE WEST LINCOLN [40.82, -96.69]				

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	08/31/14 17:45 CST		0	Hail (0.75 in)
	08/31/14 17:45 CST		0	Source: Trained Spotter

LANCASTER COUNTY --- 0.5 W BENNET [40.68, -96.51]

	08/31/14 17:48 CST		0	Hail (1.25 in)
	08/31/14 17:50 CST		0	Source: Trained Spotter

Trained spotters reported hail to quarter size. The broadcast media also reported half dollar size hail as well.

WASHINGTON COUNTY --- 2.7 WSW FT CALHOUN [41.46, -96.08]

	08/31/14 17:56 CST		0	Thunderstorm Wind (MG 50 kt)
	08/31/14 17:56 CST		0	Source: Trained Spotter

A trained spotter measured a 58 mph wind gust on a home weather station.

A seasonably strong upper level storm system swept across the northern Plains during the day on Sunday August 31st. Ahead of the storm system low pressure developed over the high Plains and allowed for warm and moist air to pool over the mid Missouri River Valley creating strong instability by mid to late afternoon. As a cold front and associated upper level jet streak interacted with the instability, thunderstorms developed from northeast Nebraska into Northern Kansas. These thunderstorms moved east through the rest of the afternoon and evening hours, crossing eastern Nebraska and western Iowa produced mainly hail and wind damage, but heavy rainfall also occurred in parts of the area as well.