

Storm Data and Unusual Weather Phenomena - September 2015

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

FREMONT COUNTY --- 0.7 N HAMBURG [40.61, -95.65]				
	09/06/15 19:50 CST		0	Thunderstorm Wind (EG 52 kt)
	09/06/15 19:50 CST		0	Source: Law Enforcement

Is there damage reported.

FREMONT COUNTY --- 1.5 NNW PAYNE [40.69, -95.76]				
	09/06/15 19:54 CST		0	Thunderstorm Wind (EG 52 kt)
	09/06/15 19:54 CST		0	Source: Law Enforcement

Where is the damage.

Very hot temperatures started the month of September across eastern Nebraska and western Iowa. As the upper level ridge of high pressure started to break down as a storm system moved across the northern Plains, a cold front moved into the area. With the hot and humid conditions ahead of the front, strong instability developed across the area. Thunderstorms developed along the front during the late afternoon and continued into the overnight hours. Some of these storms were severe producing large hail and damaging winds.

SHELBY COUNTY --- 2.2 WNW ELK HORN [41.61, -95.11]				
	09/22/15 14:20 CST		0	Hail (1.00 in)
	09/22/15 14:20 CST		0	Source: Public

SHELBY COUNTY --- 0.7 S ELK HORN [41.59, -95.07]				
	09/22/15 14:35 CST		0	Hail (0.75 in)
	09/22/15 14:35 CST		0	Source: Public

POTTAWATTAMIE COUNTY --- 1.6 W CHAUTAUQUA [41.28, -95.83], 1.6 WSW COUNCIL BLUFFS [41.27, -95.90], 1.6 W LAKE MANAWA [41.22, -95.88], 1.3 NNE LAKE MANAWA [41.24, -95.84]				
	09/23/15 05:30 CST		5M	Flash Flood (due to Heavy Rain)
	09/23/15 08:30 CST		1M	Source: Broadcast Media

Numerous reports of flash flooding were received from broadcast media, spotters, and social media. Very heavy rainfall occurred during the overnight and into the early morning hours on the 23rd with the Council Bluffs area seeing over 7 inches of rainfall. This led to significant flash flooding of streets and small streams. This had a large impact on the morning rush hour with numerous cars stalled with several water rescues taking place. Basement flooding also occurred throughout the city during the morning hours.

An area of upper level low pressure slowly moved across the central Plains during the September 22nd through the 23rd time frame. Significant moisture was in place across the mid Missouri River Valley ahead of this system. This combination led to scattered to numerous thunderstorms over eastern Nebraska and western Iowa starting on the 22nd and continuing into the day on the 23rd. The heavy persistent thunderstorms, especially late in the night and into the early morning hours on the 23rd led to significant flash flooding across parts of western Iowa, specifically in Council Bluffs.

NEBRASKA, East

LANCASTER COUNTY --- 2.2 SSW LANCASTER [40.75, -96.69], 2.7 WSW WALTON [40.78, -96.61]				
	09/06/15 17:15 CST		0	Thunderstorm Wind (EG 52 kt)
	09/06/15 17:25 CST		0	Source: Broadcast Media

Numerous reports were received from social media and the broadcast media of wind damage in the city of Lincoln. The damage was mainly to trees, but some structural damage was also reported to a manufactured home.

LANCASTER COUNTY --- 1.1 E LINCOLN [40.80, -96.65], 2.4 ESE LANCASTER [40.76, -96.63]				
	09/06/15 17:25 CST		0	Hail (2.50 in)
	09/06/15 17:28 CST		0	Source: Social Media

Numerous reports of large hail, some as big a tennis balls were received, mainly from social media, but also from spotters within the city of Lincoln. The largest hail fell on the southeast side of the city.

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LANCASTER COUNTY --- 4.9 N WAVERLY [40.99, -96.53]				
	09/06/15 17:35 CST	0		Hail (0.75 in)
	09/06/15 17:35 CST	0		Source: Trained Spotter
LANCASTER COUNTY --- 1.5 SSW UNIVERSITY PLACE [40.81, -96.63]				
	09/06/15 17:41 CST	0		Hail (1.25 in)
	09/06/15 17:41 CST	0		Source: Public
LANCASTER COUNTY --- 1.7 ESE LINCOLN [40.79, -96.64]				
	09/06/15 17:49 CST	0		Hail (2.00 in)
	09/06/15 17:49 CST	0		Source: Social Media
SAUNDERS COUNTY --- 2.1 NW ASHLAND [41.07, -96.41]				
	09/06/15 17:56 CST	0		Thunderstorm Wind (EG 52 kt)
	09/06/15 17:56 CST	0		Source: Public
Power lines were reported to be blown down near Highway 66 just southeast of the city of Memphis.				
CASS COUNTY --- 1.7 ESE EAGLE [40.81, -96.39]				
	09/06/15 18:13 CST	0		Hail (0.75 in)
	09/06/15 18:13 CST	0		Source: Trained Spotter
CASS COUNTY --- 2.5 S EAGLE [40.78, -96.43]				
	09/06/15 18:29 CST	0		Hail (1.00 in)
	09/06/15 18:29 CST	0		Source: Law Enforcement
OTOE COUNTY --- 0.7 N SYRACUSE [40.66, -96.18]				
	09/06/15 19:19 CST	0		Thunderstorm Wind (EG 61 kt)
	09/06/15 19:19 CST	0		Source: Emergency Manager
Numerous large tree limbs blown down across town. There was power lines downed, and significant shingle damage to numerous homes. The roof of a local church was also partially removed.				
CASS COUNTY --- 1.5 SSW WEEPING WATER [40.85, -96.14], 0.5 W WEEPING WATER [40.87, -96.14]				
	09/06/15 20:35 CST	0		Thunderstorm Wind (EG 52 kt)
	09/06/15 20:39 CST	0		Source: Trained Spotter
The spotter estimated winds to near 60 mph, and there were tree branches blown down.				
Very hot temperatures started the month of September across eastern Nebraska and western Iowa. As the upper level ridge of high pressure started to break down as a storm system moved across the northern Plains, a cold front moved into the area. With the hot and humid conditions ahead of the front, strong instability developed across the area. Thunderstorms developed along the front during the late afternoon and continued into the overnight hours. Some of these storms were severe producing large hail and damaging winds.				
GAGE COUNTY --- 8.0 N BEATRICE [40.39, -96.73]				
	09/07/15 01:33 CST	0		Thunderstorm Wind (EG 52 kt)
	09/07/15 01:33 CST	0		Source: Emergency Manager
In addition to the penny size hail, the emergency manager reported winds to near 60 mph as well.				
JEFFERSON COUNTY --- 0.9 SW FAIRBURY [40.14, -97.18]				
	09/07/15 14:23 CST	0		Hail (0.75 in)
	09/07/15 14:23 CST	0		Source: Law Enforcement
JEFFERSON COUNTY --- 2.7 WSW FAIRBURY [40.14, -97.22]				
	09/07/15 14:23 CST	0		Hail (2.00 in)
	09/07/15 14:23 CST	0		Source: Trained Spotter
JEFFERSON COUNTY --- 0.9 SW HEDRIX [40.17, -97.26]				

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	09/07/15 14:25 CST		0	Hail (2.50 in)
	09/07/15 14:25 CST		0	Source: Emergency Manager
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JEFFERSON COUNTY --- 1.1 SSW FAIRBURY [40.14, -97.18]				
	09/07/15 14:32 CST		0	Hail (2.75 in)
	09/07/15 14:32 CST		0	Source: Social Media
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Pictures on social media indicate hail up to baseball size in the city of Fairbury.				
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JEFFERSON COUNTY --- 0.9 SW FAIRBURY [40.14, -97.18]				
	09/07/15 14:34 CST		0	Hail (1.25 in)
	09/07/15 14:34 CST		0	Source: Emergency Manager
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JEFFERSON COUNTY --- 0.9 SW FAIRBURY [40.14, -97.18]				
	09/07/15 14:35 CST		0	Thunderstorm Wind (EG 52 kt)
	09/07/15 14:35 CST		0	Source: Emergency Manager
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Strong winds knocked down tree branches and caused numerous power outages in the city of Fairbury.				
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JEFFERSON COUNTY --- 3.3 S FAIRBURY [40.10, -97.17]				
	09/07/15 14:36 CST		0	Hail (1.75 in)
	09/07/15 14:36 CST		0	Source: Emergency Manager
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JEFFERSON COUNTY --- 2.2 WSW SHEA [40.11, -97.06]				
	09/07/15 14:51 CST		0	Hail (1.00 in)
	09/07/15 14:51 CST		0	Source: Emergency Manager
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JEFFERSON COUNTY --- 2.2 WSW SHEA [40.11, -97.06]				
	09/07/15 14:51 CST		0	Thunderstorm Wind (EG 56 kt)
	09/07/15 14:51 CST		0	Source: Emergency Manager
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The emergency manager reported winds to 65 mph.				
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GAGE COUNTY --- ODELL [40.05, -96.80]				
	09/07/15 15:18 CST		0	Hail (2.75 in)
	09/07/15 15:18 CST		0	Source: Fire Department/Rescue
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GAGE COUNTY --- 3.8 NW KRIDER [40.12, -96.80]				
	09/07/15 15:20 CST		0	Thunderstorm Wind (EG 52 kt)
	09/07/15 15:20 CST		0	Source: Trained Spotter
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A trained spotter estimated winds to near 60 mph.				
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GAGE COUNTY --- 0.7 S BLUE SPGS [40.12, -96.67]				
	09/07/15 15:40 CST		0	Thunderstorm Wind (EG 61 kt)
	09/07/15 15:40 CST		0	Source: Trained Spotter
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A trained spotter estimated winds to near 70 mph.				
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GAGE COUNTY --- 2.6 W BARNESTON [40.05, -96.63]				
	09/07/15 15:42 CST		0	Thunderstorm Wind (EG 52 kt)
	09/07/15 15:42 CST		0	Source: Trained Spotter
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A trained spotter reported tree damage at the intersection of State Highways 77 and 8.				
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SALINE COUNTY --- 0.5 W WILBER [40.48, -96.96]				
	09/07/15 19:05 CST		0	Hail (0.88 in)
	09/07/15 19:10 CST		0	Source: Emergency Manager

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SALINE COUNTY --- 0.5 W WILBER [40.48, -96.96]				
	09/07/15 19:07 CST		0	Thunderstorm Wind (MG 56 kt)
	09/07/15 19:07 CST		0	Source: Emergency Manager
GAGE COUNTY --- 3.7 W CLATONIA [40.48, -96.90]				
	09/07/15 19:13 CST		0	Thunderstorm Wind (EG 52 kt)
	09/07/15 19:13 CST		0	Source: Trained Spotter
A trained spotter estimated winds to near 60 mph.				
GAGE COUNTY --- CLATONIA [40.47, -96.83]				
	09/07/15 19:16 CST		0	Thunderstorm Wind (EG 52 kt)
	09/07/15 19:16 CST		0	Source: Social Media
Reports from social media indicated some structural damage in the city of Clatonia including damage to the grain elevator, as well as tree damage.				
GAGE COUNTY --- 1.7 WNW PICKRELL [40.39, -96.75]				
	09/07/15 19:33 CST		0	Hail (1.75 in)
	09/07/15 19:33 CST		0	Source: Emergency Manager
JOHNSON COUNTY --- 0.7 N CRAB ORCHARD [40.34, -96.42]				
	09/07/15 20:10 CST		0	Thunderstorm Wind (EG 52 kt)
	09/07/15 20:10 CST		0	Source: Trained Spotter
The spotter reported that two large trees were blown down in town. The winds were estimated to be 60 mph or more.				
JOHNSON COUNTY --- 0.7 N CRAB ORCHARD [40.34, -96.42]				
	09/07/15 20:15 CST		0	Hail (0.75 in)
	09/07/15 20:15 CST		0	Source: Trained Spotter
<p>Moisture pooled along a stalled frontal boundary near the Kansas and Nebraska border. The moisture combined with steep lapse rates to create moderate instability along this boundary during the afternoon and evening hours. Scattered thunderstorms developed along this boundary by mid afternoon and continued into the evening hours as an upper level disturbance moved into the central Plains. One storm in particular moved along the Kansas and Nebraska border and produced sporadic significant severe in the form of very large hail and damaging winds.</p>				
KNOX COUNTY --- 7.0 S VERDEL [42.72, -98.22]				
	09/09/15 14:37 CST		0	Hail (1.00 in)
	09/09/15 14:37 CST		0	Source: Trained Spotter
KNOX COUNTY --- 7.0 S VERDEL [42.72, -98.22]				
	09/09/15 14:37 CST		0	Thunderstorm Wind (EG 52 kt)
	09/09/15 14:37 CST		0	Source: Trained Spotter
The spotter reported a tree next to the house was uprooted in the strong winds.				
CEDAR COUNTY --- 3.5 N ATEN [42.85, -97.47]				
	09/09/15 14:45 CST		0	Hail (0.88 in)
	09/09/15 14:45 CST		0	Source: COOP Observer
GAGE COUNTY --- 0.7 S BLUE SPGS [40.12, -96.67]				
	09/10/15 00:15 CST		0	Thunderstorm Wind (EG 70 kt)
	09/10/15 00:15 CST		0	Source: Emergency Manager

The emergency manager reported significant damage in the town of Wymore. Damage included a couple of destroyed garages, widespread tree damage, and downed power lines. Images from the city indicates isolated pockets of winds to near 80 mph. There was also siding and roof damage from the wind driven small hail that drifted to several inches deep.

Moisture returned to eastern Nebraska ahead of a slow moving cold front. The increasing low-level moisture combined with cool temperatures aloft to create moderate instability across the area during the afternoon and into the overnight hours. Seasonably strong shear combined with the developing instability to create an atmosphere favorable for isolated severe weather. Thunderstorms

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developed over northeast Nebraska by mid afternoon and slowly sank southward through the evening and overnight hours, sporadically producing severe weather.				
ANTELOPE COUNTY --- 3.4 WNW ELGIN [42.00, -98.14]				
	09/14/15 07:54 CST		0	Hail (1.00 in)
	09/14/15 08:04 CST		0	Source: Public
The report indicated that the hail lasted for 10 min in duration.				
Thunderstorms develop during the early morning hours of September 14th associated with a nocturnal low-level jet and moisture return to the central and northern Plains. Although the far majority of these remained below severe limits, one thunderstorm briefing became severe during the morning before all the thunderstorms dissipated.				
LANCASTER COUNTY --- JAMAICA [40.70, -96.68]				
	09/17/15 04:36 CST		0	Hail (0.88 in)
	09/17/15 04:36 CST		0	Source: Trained Spotter
NEMAHA COUNTY --- 3.2 SSE AUBURN ARPT [40.36, -95.75]				
	09/17/15 17:38 CST		0	Hail (0.88 in)
	09/17/15 17:38 CST		0	Source: COOP Observer
RICHARDSON COUNTY --- STELLA [40.23, -95.77]				
	09/17/15 17:40 CST		0	Hail (1.00 in)
	09/17/15 17:40 CST		0	Source: Trained Spotter
A cold front slowly moving through eastern Nebraska and southwest Iowa produced a couple of isolated thunderstorms during the evening on September 17th. The thunderstorms, largely non-severe, persisted for a couple of hours during the evening before the cold front pushed into northeast Kansas and northwest Missouri ending the thunderstorm threat.				
BUTLER COUNTY --- 2.9 NW RISING CITY [41.23, -97.34]				
	09/18/15 07:48 CST		0	Hail (0.88 in)
	09/18/15 07:48 CST		0	Source: Trained Spotter
OTOE COUNTY --- 4.4 WNW DOUGLAS [40.60, -96.45]				
	09/18/15 08:30 CST		0	Hail (1.00 in)
	09/18/15 08:30 CST		0	Source: Trained Spotter
SEWARD COUNTY --- 4.0 NNE GROVER [40.83, -96.99]				
	09/18/15 09:25 CST		0	Hail (0.75 in)
	09/18/15 09:25 CST		0	Source: Law Enforcement
LANCASTER COUNTY --- 1.6 NE LINCOLN [40.81, -96.64]				
	09/18/15 09:40 CST		0	Hail (1.00 in)
	09/18/15 09:40 CST		0	Source: Public
The public reported the hail at 56th and O Streets in Lincoln.				
LANCASTER COUNTY --- 1.7 WSW UNIVERSITY PLACE [40.82, -96.65]				
	09/18/15 09:40 CST		0	Hail (1.25 in)
	09/18/15 09:40 CST		0	Source: Trained Spotter
LANCASTER COUNTY --- 1.3 WNW UNIVERSITY PLACE [40.84, -96.64]				
	09/18/15 09:45 CST		0	Hail (1.25 in)
	09/18/15 09:45 CST		0	Source: Trained Spotter
CASS COUNTY --- MURDOCK [40.92, -96.27]				
	09/18/15 10:06 CST		0	Hail (1.75 in)
	09/18/15 10:06 CST		0	Source: Social Media
CASS COUNTY --- 0.7 S CEDAR CREEK [41.02, -96.10]				

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	09/18/15 10:21 CST		0	Hail (1.00 in)
	09/18/15 10:21 CST		0	Source: Trained Spotter
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PIERCE COUNTY --- PIERCE [42.20, -97.53]				
	09/22/15 08:08 CST		0	Hail (1.50 in)
	09/22/15 08:08 CST		0	Source: COOP Observer
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MADISON COUNTY --- 2.6 NE NORFOLK [42.06, -97.39]				
	09/22/15 08:50 CST		0	Hail (1.25 in)
	09/22/15 08:50 CST		0	Source: Law Enforcement
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STANTON COUNTY --- 9.8 NW STANTON [42.06, -97.35]				
	09/22/15 09:02 CST		0	Hail (1.75 in)
	09/22/15 09:02 CST		0	Source: Emergency Manager
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STANTON COUNTY --- 6.3 WNW PILGER [42.04, -97.17]				
	09/22/15 09:30 CST		0	Hail (1.50 in)
	09/22/15 09:30 CST		0	Source: COOP Observer
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STANTON COUNTY --- 5.7 NNW STANTON [42.02, -97.29]				
	09/22/15 09:35 CST		0	Hail (1.75 in)
	09/22/15 09:35 CST		0	Source: Emergency Manager
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STANTON COUNTY --- 5.6 N STANTON [42.03, -97.25]				
	09/22/15 09:38 CST		0	Hail (1.75 in)
	09/22/15 09:38 CST		0	Source: Public
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STANTON COUNTY --- 4.9 NNE STANTON [42.02, -97.21]				
	09/22/15 09:43 CST		0	Hail (2.75 in)
	09/22/15 09:43 CST		0	Source: Social Media
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Significant damage to a roof and siding reported.				
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STANTON COUNTY --- 5.2 NE STANTON [42.01, -97.17]				
	09/22/15 09:55 CST		0	Hail (1.75 in)
	09/22/15 09:55 CST		0	Source: Public
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CUMING COUNTY --- 5.2 NE WISNER [42.04, -96.87]				
	09/22/15 10:15 CST		0	Hail (1.00 in)
	09/22/15 10:15 CST		0	Source: Public
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THURSTON COUNTY --- PENDER [42.12, -96.70]				
	09/22/15 10:20 CST		0	Hail (0.88 in)
	09/22/15 10:20 CST		0	Source: Emergency Manager
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CUMING COUNTY --- 9.0 NNE BEEMER [42.05, -96.75]				
	09/22/15 10:30 CST		0	Hail (1.00 in)
	09/22/15 10:30 CST		0	Source: Public
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BURT COUNTY --- 0.9 NW DECATUR [42.01, -96.26]				
	09/22/15 11:25 CST		0	Hail (0.75 in)
	09/22/15 11:25 CST		0	Source: Trained Spotter

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CUMING COUNTY --- 2.1 SW BANCROFT [42.00, -96.60]				
	09/22/15 12:30 CST	0		Hail (1.50 in)
	09/22/15 12:30 CST	0		Source: Newspaper
PLATTE COUNTY --- 1.8 E SHELDONVILLE [41.45, -97.39]				
	09/22/15 21:07 CST	0		Hail (1.00 in)
	09/22/15 21:07 CST	0		Source: Trained Spotter
PLATTE COUNTY --- 2.1 NE SHELDONVILLE [41.47, -97.39]				
	09/22/15 21:08 CST	0		Hail (1.00 in)
	09/22/15 21:08 CST	0		Source: Trained Spotter
KNOX COUNTY --- 4.9 N WAUSA [42.57, -97.54]				
	09/22/15 21:44 CST	0		Hail (1.00 in)
	09/22/15 21:44 CST	0		Source: Public
KNOX COUNTY --- 1.0 W BLOOMFIELD [42.60, -97.65]				
	09/22/15 22:21 CST	0		Hail (0.75 in)
	09/22/15 22:21 CST	0		Source: Public
DOUGLAS COUNTY --- 0.8 SE (OMA)EPPLEY FLD OMAH [41.29, -95.89]				
	09/23/15 03:39 CST	0		Thunderstorm Wind (MG 52 kt)
	09/23/15 03:39 CST	0		Source: ASOS

Measured at Eppley Airfield in northeast Omaha.

BUTLER COUNTY --- 1.5 SSE DAVID CITY ARPT [41.21, -97.11], 0.9 E DAVID CITY ARPT [41.23, -97.10]				
	09/23/15 16:44 CST	0		Tornado (EF0, L: 1.53 mi , W: 50 yd)
	09/23/15 16:46 CST	0		Source: Social Media

Video obtained from Twitter showed a brief tornado touchdown in rural Butler County . A survey from the local emergency management indicated no damage from the tornado.

An area of upper level low pressure slowly moved across the central Plains during the September 22nd through the 23rd time frame. Significant moisture was in place across the mid Missouri River Valley ahead of this system. This combination led to scattered to numerous thunderstorms over eastern Nebraska and western Iowa starting on the 22nd and continuing into the day on the 23rd. The heavy persistent thunderstorms, especially late in the night and into the early morning hours on the 23rd led to significant flash flooding across parts of western Iowa, specifically in Council Bluffs.