

Storm Data and Unusual Weather Phenomena - July 2015

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

PAGE COUNTY --- 0.9 NW CLARINDA [40.74, -95.04], 1.4 WNW CLARINDA [40.73, -95.05], 0.7 SW CLARINDA [40.72, -95.04], 0.1 SE CLARINDA [40.73, -95.03], 0.5 N CLARINDA [40.74, -95.03]

07/15/15 23:45 CST	15K	Flash Flood (due to Heavy Rain)
07/15/15 23:45 CST	0	Source: Law Enforcement

Local law enforcement reported extensive street flooding in the city of Clarinda. Up to two feet of water was reported in some streets.

PAGE COUNTY --- 0.7 S SHENANDOAH [40.76, -95.37], 1.2 S SHENANDOAH [40.75, -95.37], 1.7 S SHENANDOAH [40.75, -95.37], 1.4 SSE SHENANDOAH [40.75, -95.36], 0.5 SE SHENANDOAH [40.77, -95.36]

07/16/15 04:15 CST	10K	Flash Flood (due to Heavy Rain)
07/16/15 04:15 CST	0	Source: Law Enforcement

Extensive street flooding was reported in Shenadoah, including water flowing across State Highway 48.

A slow moving thunderstorms moving across Page County produced 2 to 4 inches of rainfall during the evening of July 15th. Additional thunderstorms occurred during the overnight hours with storm total precipitation measured at over 5 inches in parts of the county. This led to mainly urban flash flooding.

MILLS COUNTY --- PACIFIC JCT [41.02, -95.80]

07/24/15 18:42 CST	0	Thunderstorm Wind (EG 52 kt)
07/24/15 18:42 CST	0	Source: Trained Spotter

A trained spotter estimated wind gusts to 60 mph.

PAGE COUNTY --- 0.7 S SHENANDOAH [40.76, -95.37]

07/25/15 01:05 CST	0	Thunderstorm Wind (MG 54 kt)
07/25/15 01:05 CST	0	Source: AWOS

A cold front moved slowly southeast across eastern Nebraska and western Iowa during the day on July 24th. Ahead of the front, isolated thunderstorms developed during the early morning on the 24th as moisture returned to the region. Later in the day, extreme instability developed ahead of the front as temperatures soared into the upper 90s coupled with dew points in the mid and upper 70s. Two rounds of thunderstorms developed in association with the front. The first was in the late afternoon over east central Nebraska into southwest Iowa, and then a second round occurred as storms moved into the region from central Nebraska around midnight crossing into southwest Iowa early in the morning on the 25th. Both of these rounds produced isolated severe weather.

NEBRASKA, East

KNOX COUNTY --- 1.7 WNW SANTEE [42.84, -97.85]

07/05/15 01:47 CST	0	Hail (1.50 in)
07/05/15 01:47 CST	0	Source: Law Enforcement

A few isolated thunderstorms developed in the early morning hours of July 5th along the South Dakota and Nebraska border.

PAWNEE COUNTY --- 0.7 S PAWNEE CITY [40.11, -96.15]

07/06/15 12:45 CST	0	Thunderstorm Wind (EG 60 kt)
07/06/15 12:45 CST	0	Source: COOP Observer

Several 6-8" diameter tree limbs were down around town. Very heavy rain accompanied the storm as well.

Afternoon thunderstorms developed near a cold front extending across southeast Nebraska in a moderately unstable environment. The storms were fairly short-lived, but did produce some isolated wind damage in Pawnee City, NE.

ANTELOPE COUNTY --- ELGIN [41.98, -98.08]

07/11/15 01:30 CST	0	Hail (1.00 in)
07/11/15 01:30 CST	0	Source: Law Enforcement

An isolated thunderstorm developed over central Nebraska shortly after midnight the morning of July July 11th. This storm moved east and dropped quarter size hail in Elgin, Nebraska before quickly dissipating.

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JEFFERSON COUNTY --- 0.7 S HARBINE [40.19, -96.97]				
	07/15/15 21:12 CST		0	Thunderstorm Wind (EG 52 kt)
	07/15/15 21:12 CST		0	Source: Law Enforcement
The emergency manger relayed reports from local law enforcement of strong winds estimated in excess of 60 mph.				
SARPY COUNTY --- 1.4 S (OFF)OFFUTT AFB [41.10, -95.92]				
	07/16/15 01:50 CST		0	Thunderstorm Wind (EG 52 kt)
	07/16/15 01:50 CST		0	Source: Social Media
Trees were reported blown down along U.S. Highway 75 and Platteview Rd blocking the road.				
Thunderstorms increased in coverage and intensity during the evening on July 15th into the early morning hours of the 16th to the north of a surface warm front. Instability was limited across the area and thus allowed for most thunderstorms to be non-severe during the evening and overnight hours.				
MADISON COUNTY --- 1.6 NE NORFOLK [42.04, -97.40]				
	07/16/15 18:06 CST		0	Hail (0.88 in)
	07/16/15 18:06 CST		0	Source: Trained Spotter
Isolated thunderstorms developed along a surface trough over northeast Nebraska on the afternoon of July 16th. Although the thunderstorms were supercells, limited instability and a very warm atmosphere reduced the severe weather threat to smaller hail. The thunderstorms quickly dissipated after sunset.				
ANTELOPE COUNTY --- 2.1 NE OAKDALE [42.09, -97.94]				
	07/17/15 17:00 CST		0	Hail (1.00 in)
	07/17/15 17:00 CST		0	Source: Law Enforcement
ANTELOPE COUNTY --- NELIGH [42.13, -98.03]				
	07/17/15 17:06 CST		0	Hail (1.00 in)
	07/17/15 17:06 CST		0	Source: Law Enforcement
ANTELOPE COUNTY --- 2.1 E NELIGH ARPT [42.12, -97.99]				
	07/17/15 17:12 CST		0	Hail (1.25 in)
	07/17/15 17:12 CST		0	Source: Social Media
ANTELOPE COUNTY --- 6.3 ENE NELIGH [42.15, -97.91]				
	07/17/15 17:46 CST		0	Hail (1.00 in)
	07/17/15 17:46 CST		0	Source: Public
Crop damage was noted to the corn from the hail and wind.				
PIERCE COUNTY --- 6.1 SSW FOSTER [42.20, -97.72]				
	07/17/15 18:26 CST		0	Hail (2.00 in)
	07/17/15 18:26 CST		0	Source: Law Enforcement
KNOX COUNTY --- 5.2 NE VENUS [42.49, -98.24]				
	07/17/15 19:21 CST		0	Hail (1.00 in)
	07/17/15 19:21 CST		0	Source: Public
KNOX COUNTY --- 9.3 W VERDIGRE [42.58, -98.21]				
	07/17/15 19:52 CST		0	Hail (1.50 in)
	07/17/15 19:52 CST		0	Source: Public
Winds were also estimated at 50 mph.				
KNOX COUNTY --- 7.2 E CREIGHTON ARPT [42.48, -97.71]				
	07/17/15 19:56 CST		0	Hail (0.75 in)
	07/17/15 19:56 CST		0	Source: Public

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WAYNE COUNTY --- 3.5 N CARROLL [42.33, -97.19]				
	07/17/15 21:25 CST		0	Thunderstorm Wind (MG 56 kt)
	07/17/15 21:25 CST		0	Source: Public
<p>Isolated to scattered thunderstorms developed in an extremely unstable atmosphere, characterized with temperatures in the mid 90s and dew points in the mid 70s, over northeast Nebraska during the late afternoon and continued into the evening. The thunderstorms were developing along and behind a cold front in the area. Large hail, damaging winds and heavy rainfall were observed from these thunderstorms that generally weakened by late evening.</p>				
ANTELOPE COUNTY --- CLEARWATER [42.17, -98.18]				
	07/20/15 06:10 CST		0	Thunderstorm Wind (EG 52 kt)
	07/20/15 06:10 CST		0	Source: Newspaper
<p>Scattered large tree branches were blown down around town. In addition, one healthy tree was uprooted and fell into a house in town.</p> <p>Thunderstorms developed during the late afternoon over north central Nebraska as moisture returned to the region behind cold front that moved through the region on the 18th of July. These thunderstorms generally weakened as they moved into northeast Nebraska near midnight, but one storm in Boone County produced damaging wind.</p>				
GAGE COUNTY --- 0.7 S BLUE SPGS [40.12, -96.67]				
	07/24/15 02:50 CST		0	Thunderstorm Wind (EG 52 kt)
	07/24/15 02:50 CST		0	Source: Emergency Manager
<p>The emergency manager, as well as media outlets, reported significant tree damage in the town of Wymore.</p>				
CASS COUNTY --- 0.9 SE PLATTSMOUTH [41.01, -95.89]				
	07/24/15 18:35 CST		0	Thunderstorm Wind (EG 52 kt)
	07/24/15 18:35 CST		0	Source: Trained Spotter
<p>Spotters reported tree limbs 8 to 10 inches in diameter were downed in the city of Plattsmouth.</p>				
GAGE COUNTY --- 0.8 SSW BEATRICE [40.26, -96.74]				
	07/24/15 18:55 CST		0	Hail (0.88 in)
	07/24/15 18:55 CST		0	Source: Social Media
SALINE COUNTY --- FRIEND [40.65, -97.28]				
	07/24/15 22:38 CST		0	Thunderstorm Wind (MG 57 kt)
	07/24/15 22:38 CST		0	Source: COOP Observer
SEWARD COUNTY --- MILFORD [40.77, -97.05]				
	07/24/15 22:50 CST		0	Hail (1.00 in)
	07/24/15 22:50 CST		0	Source: Public
SEWARD COUNTY --- MILFORD [40.77, -97.05]				
	07/24/15 22:50 CST		0	Thunderstorm Wind (EG 52 kt)
	07/24/15 22:50 CST		0	Source: Public
<p>Several branches reported blown down ranging from 1 to 15 inches in diameter.</p>				
LANCASTER COUNTY --- 2.1 E LANCASTER [40.78, -96.63]				
	07/24/15 23:10 CST		0	Hail (1.50 in)
	07/24/15 23:10 CST		0	Source: Social Media
<p>A picture on social media indicated hail measured up 1.50 inches on the southeast side of the city of Lincoln.</p>				
SEWARD COUNTY --- SEWARD [40.90, -97.10]				
	07/24/15 23:10 CST		0	Thunderstorm Wind (EG 55 kt)
	07/24/15 23:10 CST		0	Source: Social Media

Numerous photos of tree damage were received from the city of Seward from the line of thunderstorms. Winds were estimated between 60 and 70 mph.

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LANCASTER COUNTY --- 1.0 SE (LNK)LINCOLN ARPT [40.84, -96.75]				
	07/24/15 23:11 CST	0		Thunderstorm Wind (MG 53 kt)
	07/24/15 23:31 CST	0		Source: ASOS
The ASOS at the Lincoln Airport occasional gusted above 58 mph from 1211 am through 1231 am, with a peak wind gust measured at 61 mph.				
LANCASTER COUNTY --- 3.7 W AGNEW [41.01, -96.90]				
	07/24/15 23:15 CST	0		Thunderstorm Wind (MG 51 kt)
	07/24/15 23:15 CST	0		Source: Mesonet
LANCASTER COUNTY --- 2.2 SE LANCASTER [40.76, -96.64]				
	07/25/15 00:28 CST	0		Thunderstorm Wind (EG 52 kt)
	07/25/15 00:28 CST	0		Source: Social Media
Twitter pictures indicated numerous tree branches down on the southeast side of Lincoln, some greater than 8 inches in diameter.				
A cold front moved slowly southeast across eastern Nebraska and western Iowa during the day on July 24th. Ahead of the front, isolated thunderstorms developed during the early morning on the 24th as moisture returned to the region. Later in the day, extreme instability developed ahead of the front as temperatures soared into the upper 90s coupled with dew points in the mid and upper 70s. Two rounds of thunderstorms developed in association with the front. The first was in the late afternoon over east central Nebraska into southwest Iowa, and then a second round occurred as storms moved into the region from central Nebraska around midnight crossing into southwest Iowa early in the morning on the 25th. Both of these rounds produced isolated severe weather.				
KNOX COUNTY --- 1.2 SW VERDIGRE [42.59, -98.05]				
	07/28/15 02:21 CST	0		Hail (1.00 in)
	07/28/15 02:21 CST	0		Source: Trained Spotter
Isolated thunderstorms moved into northeast Nebraska during the early morning hours of the 28th. The storms had developed over the western High Plains and were largely non-severe in northeast Nebraska, but one large hail report was received.				
DOUGLAS COUNTY --- 0.7 NE DUNDEE [41.29, -96.01], 0.6 S OMAHA [41.26, -96.00]				
	07/31/15 03:20 CST	0		Thunderstorm Wind (EG 52 kt)
	07/31/15 03:20 CST	0		Source: Broadcast Media
Local media reported on a swatch of wind damage from the Benson to Dundee area of Omaha. Within this zone tree limbs of 3 inches or great were blown down. Some homes had siding partially removed, and over 8800 people were without electrical power.				
BOONE COUNTY --- 0.9 SE ALBION MUNI ARPT [41.72, -98.04]				
	07/31/15 13:30 CST	0		Hail (1.75 in)
	07/31/15 13:30 CST	0		Source: Public
BOONE COUNTY --- 2.8 S ALBION MUNI ARPT [41.69, -98.06]				
	07/31/15 13:40 CST	0		Thunderstorm Wind (EG 52 kt)
	07/31/15 13:40 CST	0		Source: COOP Observer
The observer reported substantial crop damage in the area.				
BOONE COUNTY --- 0.7 S ALBION [41.69, -98.00]				
	07/31/15 13:41 CST	0		Hail (1.00 in)
	07/31/15 13:41 CST	0		Source: Law Enforcement
STANTON COUNTY --- 12.3 SE STANTON [41.83, -97.06]				
	07/31/15 15:53 CST	0		Hail (2.00 in)
	07/31/15 15:53 CST	0		Source: Emergency Manager
There were also 40 mph winds reported, with combined with the hail produced siding damage and knocked out windows.				
CUMING COUNTY --- 0.9 NE WEST PT [41.84, -96.71]				
	07/31/15 16:31 CST	0		Thunderstorm Wind (EG 61 kt)
	07/31/15 16:31 CST	0		Source: Law Enforcement

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Numerous trees and tree limbs were downed in town, some onto power lines. Law enforcement estimated wind gusts to near 70 mph.

BURT COUNTY --- 3.7 SSW OAKLAND [41.78, -96.49]

	07/31/15 16:54 CST		0	Hail (1.00 in)
	07/31/15 16:54 CST		0	Source: Law Enforcement

Small tree limbs were also reported down in the area.

BURT COUNTY --- 0.5 E CRAIG [41.78, -96.36]

	07/31/15 17:11 CST		0	Thunderstorm Wind (EG 61 kt)
	07/31/15 17:11 CST		0	Source: Fire Department/Rescue

Some tree limbs were reported downed in town.

OTOE COUNTY --- OTOE [40.72, -96.12]

	07/31/15 18:55 CST		0	Hail (2.00 in)
	07/31/15 18:55 CST		0	Source: Social Media

Pictures of the hail showed a spike appearance.

Isolated thunderstorms occurred overnight in eastern Nebraska. Although these storms were largely non-severe, one storm did produce a microburst within the Omaha area. These thunderstorms weakened, but additional thunderstorms developed by mid afternoon along a weak surface trough over central Nebraska. The thunderstorms increased in coverage through the late afternoon and into the evening hours as they generally dropped east and southeast. Isolated occurrences of large hail and damaging winds occurred along the track of these storms. Thunderstorms generally weakened by mid to late evening.