

Storm Data and Unusual Weather Phenomena - November 2015

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

PAGE COUNTY --- 0.8 WSW NORWICH [40.75, -95.24], 0.7 WNW NORWICH [40.76, -95.24]

11/11/15 12:48 CST	0	Tornado (EF0, L: 0.57 mi , W: 50 yd)
11/11/15 12:50 CST	0	Source: Storm Chaser

A couple of storm chasers captured on video a small brief tornado just to the west of Yorktown and north of Highway 2. The tornado appeared to be in open county with no damage reported.

MONTGOMERY COUNTY --- 0.9 SE RED OAK [41.01, -95.22]

11/11/15 13:44 CST	0	Thunderstorm Wind (MG 55 kt)
11/11/15 13:44 CST	0	Source: AWOS

The wind gust was measured at the local Red Oak airport. The emergency manager reported power poles downed from this storm.

POTTAWATTAMIE COUNTY --- 2.4 WSW AVOCA [41.47, -95.39], 2.1 NNW AVOCA [41.51, -95.37]

11/11/15 13:48 CST	0.25M	Tornado (EF1, L: 2.87 mi , W: 150 yd)
11/11/15 13:52 CST	0	Source: NWS Storm Survey

The tornado started just south of the County Road 18 to the west of the city of Avoca, Iowa. The tornado tracked to the north northeast through open fields initially. Due to the recent harvest the tornado was easily tracked through the fields due to ground scouring of the left-over corn stocks. The tornado narrowly missed a farmstead along 420th street but did destroy one empty grain bin located across the street from the farm. The tornado continued to track across open fields until it crossed the busy Interstate 80 where a semi was lofted and tossed into a ditch on the north side of the interstate. At this location there were also large hardwood trees that were uprooted. The tornado continued to the northeast into Shelby County.

SHELBY COUNTY --- 4.2 ESE SHELBY [41.51, -95.37], 1.9 N CORLEY [41.61, -95.33]

11/11/15 13:52 CST	1.20M	Tornado (EF1, L: 7.34 mi , W: 150 yd)
11/11/15 14:02 CST	0	Source: NWS Storm Survey

This tornado entered Shelby County from Pottawattamie County from the southwest. The tornado impacted a total of 6 farmsteads in the county as it tracked to the north northeast. Damage at these farmsteads was confined to mainly outbuilding being damaged or destroyed, trees uprooted, and electrical power poles downed. The tornado tracked across the western side of the Harlan Airport without doing damage to the airport , but a wind gust associated with the rear-flank downdraft of the storm was measured at 76 mph at the automatic observing equipment on the east side of the airport. The tornado finally ended just to the southeast of the city of Harlan.

SHELBY COUNTY --- 0.5 W CORLEY [41.58, -95.34]

11/11/15 14:06 CST	0	Thunderstorm Wind (MG 66 kt)
11/11/15 14:06 CST	0	Source: AWOS

SHELBY COUNTY --- IRWIN [41.80, -95.20]

11/11/15 14:14 CST	0	Thunderstorm Wind (MG 62 kt)
11/11/15 14:14 CST	0	Source: Mesonet

A powerful upper level low pressure system moved quickly across the central Plains during the day on November 11th. As low pressure moved from Kansas into eastern Nebraska during the day, warm and moist air was pushed northward into the region. This unseasonably warm and moist air led to increasing instability during the afternoon over western Iowa and southeast Nebraska. This combined with the strong wind field associated with the low produced an atmosphere ripe for severe weather. Thunderstorms developed along the cold front in eastern Nebraska by early afternoon, and then increased in coverage and intensity as they tracked east into western Iowa during the early afternoon. Large hail and isolated tornadoes were produced by these thunderstorms.

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Picture of a demolished barn 8 miles south southwest of Harlan, IA. NWS Omaha/Valley photo.

(IA-Z056) SHELBY

	11/26/15 09:00 CST	0	Winter Storm
	11/26/15 17:00 CST	0	

As a potent upper level storm system moved across the northern Plains on November 25th a sharp cold front slowly moved south through Nebraska and Iowa. This allowed for some of the coldest air of the early winter season to move into the mid Missouri River Valley. As warm and moist air continued to stream northeast across the area over this air the stage was set for a mix of freezing rain, sleet, and snow. The mix started early on the morning of the 26th and continued through the day creating some hazardous conditions for holiday travelers, scattered power outages, and some tree damage.

(IA-Z043) MONONA, (IA-Z055) HARRISON

	11/30/15 05:00 CST	0	Winter Storm
	11/30/15 19:00 CST	0	

A deep upper level trough moved from the central Rocky Mountains into the central and northern Plains during the day on Monday November 30th. Ahead of the system moisture was pulled northward into the area leading to widespread precipitation development during the early morning. This initially was in the form of a mix of light freezing rain, sleet and snow. The precipitation became predominately snow through the day on the 30th with the heaviest accumulations occurring over west central Iowa and into northeast Nebraska and points to the north.

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NEBRASKA, East

OTOE COUNTY --- UNADILLA [40.68, -96.27]

	11/11/15 12:19 CST	0		Hail (1.00 in)
	11/11/15 12:19 CST	0		Source: Trained Spotter

OTOE COUNTY --- UNADILLA [40.68, -96.27]

	11/11/15 12:19 CST	0		Thunderstorm Wind (EG 52 kt)
	11/11/15 12:19 CST	0		Source: Trained Spotter

The spotter also estimated 60 mph winds in addition to the quarter size hail.

SARPY COUNTY --- 2.8 S GRETN A [41.11, -96.24]

	11/11/15 12:19 CST	0		Hail (0.88 in)
	11/11/15 12:19 CST	0		Source: Trained Spotter

CASS COUNTY --- 4.8 S WEEPING WATER ARPT [40.80, -96.12]

	11/11/15 12:34 CST	0		Hail (1.75 in)
	11/11/15 12:34 CST	0		Source: Emergency Manager

CASS COUNTY --- 2.6 W MURRAY [40.92, -95.97]

	11/11/15 12:50 CST	0		Hail (1.75 in)
	11/11/15 12:50 CST	0		Source: Law Enforcement

A powerful upper level low pressure system moved quickly across the central Plains during the day on November 11th. As low pressure moved from Kansas into eastern Nebraska during the day, warm and moist air was pushed northward into the region. This unseasonably warm and moist air led to increasing instability during the afternoon over western Iowa and southeast Nebraska. This combined with the strong wind field associated with the low produced an atmosphere ripe for severe weather. Thunderstorms developed along the cold front in eastern Nebraska by early afternoon, and then increased in coverage and intensity as they tracked east into western Iowa during the early afternoon. Large hail and isolated tornadoes were produced by these thunderstorms.

SAUNDERS COUNTY --- 2.1 SSW WAHOO [41.19, -96.63]

	11/17/15 01:50 CST	0		Thunderstorm Wind (EG 52 kt)
	11/17/15 01:50 CST	0		Source: Public

The Wahoo golf club reported significant tree damage.

A line of thunderstorms moved into eastern Nebraska after midnight on the morning of the 17th. Although this line had previously been severe in central and western Nebraska, due to a lack of instability the thunderstorms were weakening. Despite the over-all weakening of the line, an apparent down burst occurred near the city of Wahoo, Nebraska.

(NE-Z011) KNOX, (NE-Z012) CEDAR

	11/20/15 05:00 CST	0		Heavy Snow
	11/20/15 17:00 CST	0		

A strong clipper system moved from the northern Rocky Mountains into the northern Plains during the day on Friday November 20th. Low pressure developed over western Kansas early on the 20th and tracked eastward across Kansas and into Missouri by the 21st along an intense thermal gradient. Due to the temperature gradient and above average moisture, a relatively narrow band of very heavy snowfall occurred over parts of northeast Nebraska and points to the north and east. The snowfall began early Friday morning, continued through the day, and ended on Friday evening. North and northeast winds increased to 15 to 25 mph with higher gusts developed Friday afternoon and led to considerable blow and drifting of the new snowfall.

(NE-Z052) DOUGLAS, (NE-Z053) SARPY, (NE-Z066) LANCASTER, (NE-Z078) SALINE, (NE-Z088) JEFFERSON, (NE-Z090) JOHNSON, (NE-Z092) PAWNEE

	11/26/15 09:30 CST	0		Winter Storm
	11/26/15 22:30 CST	0		

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(NE-Z011) KNOX, (NE-Z012) CEDAR, (NE-Z015) THURSTON, (NE-Z033) CUMING, (NE-Z034) BURT	11/30/15 04:00 CST		0	Winter Storm
	11/30/15 21:00 CST		0	

A deep upper level trough moved from the central Rocky Mountains into the central and northern Plains during the day on Monday November 30th. Ahead of the system moisture was pulled northward into the area leading to widespread precipitation development during the early morning. This initially was in the form of a mix of light freezing rain, sleet and snow. The precipitation become predominately snow through the day on the 30th with the heaviest accumulations occurring over west central Iowa and into northeast Nebraska and points to the north.