

Storm Data and Unusual Weather Phenomena - December 2015

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

FREMONT COUNTY --- 3.5 SW RIVERTON [40.65, -95.62], 0.8 N RIVERTON [40.69, -95.57], 3.1 NE RIVERTON [40.71, -95.53], 2.7 NW RIVERTON [40.71, -95.60], 3.5 WSW RIVERTON [40.66, -95.63]

12/13/15 23:11 CST	25K	Flood (due to Heavy Rain)
12/17/15 19:02 CST	0	Source: River/Stream Gage

Heavy rainfall during mid December led to river flooding along both the East and West Nishnabotna Rivers . The West Nishnabotna River crested during the late afternoon on the 14th, while the East Nishnabotna crested late on the 15th. The river flooding was generally confined to low agricultural land along the rivers, but State Highway J46 was closed due to flooding.

PAGE COUNTY --- 3.6 S HEPBURN [40.80, -95.01], 0.7 NE CLARINDA [40.74, -95.02], 1.4 NNW SHAMBAUGH [40.67, -95.04], 1.6 NE SHAMBAUGH [40.67, -95.01], 3.4 SSE HEPBURN [40.80, -94.99]

12/14/15 05:00 CST	0	Flood (due to Heavy Rain)
12/14/15 22:39 CST	0	Source: River/Stream Gage

Heavy rainfall over a two-day period in mid December brought the Nodaway River above flood stage. The crest reached 24.83 feet in the early afternoon hours of December 14th. This was 1.83 feet above flood stage. Flooding was confined to low agricultural areas along the river.

FREMONT COUNTY --- 2.0 NNW RANDOLPH [40.90, -95.59], 2.1 SW RANDOLPH [40.84, -95.59], 2.1 SSW RANDOLPH [40.84, -95.58], 0.4 NW RANDOLPH [40.87, -95.58], 1.6 N RANDOLPH [40.89, -95.57]

12/14/15 06:30 CST	0	Flood (due to Heavy Rain)
12/15/15 18:00 CST	0	Source: River/Stream Gage

Heavy rainfall during mid December caused the western Nishnabotna River over flood state at Randolph. The river crested at 21.04 feet during the early morning on the 15th. The flooding was confined to low-land agricultural areas.

MONTGOMERY COUNTY --- 1.9 N RED OAK [41.05, -95.24], 2.1 SSW RED OAK MUNI ARPT [40.99, -95.26], 1.9 SSW RED OAK [40.99, -95.24], 1.7 N RED OAK [41.04, -95.23]

12/14/15 06:30 CST	0	Flood (due to Heavy Rain)
12/15/15 12:00 CST	0	Source: River/Stream Gage

Heavy rainfall over a two-day period in mid December brough the East Nishnabotna River above flood stage with a crest to just below moderate stage. The crest reached 21.02 feet in the early afternoon hours of December 14th. This was 3.02 feet above flood stage.

FREMONT COUNTY --- 3.6 NNE HAMBURG [40.65, -95.64], 0.4 NNW HAMBURG REIDS ARPT [40.59, -95.65], 1.1 ENE HAMBURG REIDS ARPT [40.59, -95.63], 2.6 NE HAMBURG [40.63, -95.62], 3.5 SW RIVERTON [40.65, -95.62]

12/14/15 13:54 CST	0	Flood (due to Heavy Rain)
12/17/15 01:52 CST	0	Source: River/Stream Gage

Heavy rainfall over a two-day period in mid December brought the Nishnabotna River above flood stage with a crest to just above moderate stage. The crest reached 27.27 feet in the early evening hours of December 15th. This was 2.27 feet above flood stage. The majority of the flooding was confined to areas within the levee system, but State Highway 275 to the southeast of Hamburg did see some water across the road.

POTTAWATTAMIE COUNTY --- 1.9 N HANCOCK [41.43, -95.37], 1.5 NNW OAKLAND [41.34, -95.41], 1.1 NNE OAKLAND [41.34, -95.39], 0.6 SSE HANCOCK [41.39, -95.36], 2.6 NNE HANCOCK [41.43, -95.35]

12/14/15 15:30 CST	0	Flood (due to Heavy Rain)
12/15/15 22:15 CST	0	Source: River/Stream Gage

Heavy rainfall over a two-day period in mid Decmbert brought the West Nishnabotna River near Hancock above flood stage with a crest to just above the flood stage of 14.0 feet. The river crested on the evening of December 14th at a state of 14.32 feet.

A powerful and slow moving storm system spread heavy rainfall from the southern Plains into the central Plains over a two day period from 13th through the 14th of December. The closed upper level low pressure moved from the southern Plains on the 13th through the central Plains on the 14th and along and to the northwest of this track very heavy rainfall was observed. Rainfall records were set across the area with Omaha setting daily rainfall records for 3 consecutive days from the 13th through the 15th. The system was anomalously warm for December and thunderstorms were observed in many areas on the 13th of December. Colder air finally did work into the storm during the early morning of the 15th and resulted in some light snow over east central Nebraska and southwest Iowa. The most significant aspect of the storm system though was the resulting river flooding for the region.

(IA-Z055) HARRISON, (IA-Z056) SHELBY, (IA-Z069) POTTAWATTAMIE

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	12/24/15 08:00 CST		0	Heavy Snow
	12/24/15 14:00 CST		0	

A weak upper level disturbance moving through eastern Nebraska and western Iowa on Christmas Eve combined with a strong temperature gradient across the area to produce a narrow heavy band of snowfall. The snow began across the area early in the morning on Thursday and continued through the morning before diminishing in the afternoon. The heaviest of the snow fell during the mid to late morning across the area. There was little wind with the snow, but due to the intensity of the snowfall, with rates at times 1 to 2 inches per hour, travel was significantly affected across the region.

NEBRASKA, East

RICHARDSON COUNTY --- 1.2 NNE RULO [40.07, -95.42], 1.3 SE RULO [40.04, -95.41], 1.0 SSE RULO [40.04, -95.42], 1.1 NNE RULO [40.07, -95.42]				
	12/13/15 18:15 CST		0	Flood (due to Heavy Rain)
	12/17/15 18:18 CST		0	Source: River/Stream Gage

Heavy rainfall over a two-day period in mid December brought the Missouri River to rise above flood stage. The crest reached 20.53 feet in the early morning hours of December 16th. This was 3.53 feet above flood stage. Flooding was confined to low agricultural areas along the river.

SAUNDERS COUNTY --- 0.7 WSW ITHACA [41.16, -96.56], 0.2 WSW ASHLAND [41.05, -96.38], 0.8 N ASHLAND [41.06, -96.38], 0.2 ESE ITHACA [41.17, -96.55]				
	12/14/15 12:15 CST		0	Flood (due to Heavy Rain)
	12/14/15 20:05 CST		0	Source: River/Stream Gage

Heavy rainfall in mid December led to minor flooding along the Wahoo Creek at both Ithaca downstream to Ashland. The river crested at 19.37 feet or .37 feet above flood stage at Ithaca, and at 19.11 feet or .11 feet above flood stage at Ashland. Flooding was minor and confined to agricultural land right along the river.

NEMAHA COUNTY --- 1.3 NW BROWNVILLE [40.42, -95.66], 1.9 S BROWNVILLE [40.37, -95.64], 1.8 S BROWNVILLE [40.37, -95.65], 1.4 NW BROWNVILLE [40.41, -95.67]				
	12/14/15 14:12 CST		0	Flood (due to Heavy Rain)
	12/17/15 23:00 CST		0	Source: River/Stream Gage

Heavy rainfall over a two-day period in mid December brought the Missouri River to rise above flood stage. The crest reached 36.40 feet in the evening hours of December 15th. This was 3.4 feet above flood stage. Flooding was confined to low agricultural areas along the river.

OTOE COUNTY --- 1.4 NE NEBRASKA CITY [40.67, -95.83], 2.3 NNE NEBRASKA CITY ARPT [40.70, -95.86], 2.3 NNE NEBRASKA CITY ARPT [40.70, -95.86], 1.2 NE NEBRASKA CITY [40.66, -95.84]				
	12/15/15 01:12 CST		0	Flood (due to Heavy Rain)
	12/16/15 00:37 CST		0	Source: River/Stream Gage

Heavy rainfall over a two-day period in mid December brought the Missouri River to rise above flood stage. The crest reached 19.01 feet in the morning hours of December 15th. This was 1.01 feet above flood stage. Flooding was confined to low agricultural areas along the river.

A powerful and slow moving storm system spread heavy rainfall from the southern Plains into the central Plains over a two day period from 13th through the 14th of December. The closed upper level low pressure moved from the southern Plains on the 13th through the central Plains on the 14th and along and to the northwest of this track very heavy rainfall was observed. Rainfall records were set across the area with Omaha setting daily rainfall records for 3 consecutive days from the 13th through the 15th. The system was anomalously warm for December and thunderstorms were observed in many areas on the 13th of December. Colder air finally did work into the storm during the early morning of the 15th and resulted in some light snow over east central Nebraska and southwest Iowa. The most significant aspect of the storm system though was the resulting river flooding for the region.

(NE-Z045) WASHINGTON, (NE-Z052) DOUGLAS, (NE-Z053) SARPY, (NE-Z065) SEWARD				
	12/24/15 05:00 CST		0	Heavy Snow
	12/24/15 13:00 CST		0	

(NE-Z051) SAUNDERS, (NE-Z066) LANCASTER, (NE-Z067) CASS				
	12/24/15 06:00 CST		0	Winter Weather
	12/24/15 12:00 CST		0	

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morning on Thursday and continued through the morning before diminishing in the afternoon. The heaviest of the snow fell during the mid to late morning across the area. There was little wind with the snow, but due to the intensity of the snowfall, with rates at times 1 to 2 inches per hour, travel was significant affected across the region.

(NE-Z011) KNOX, (NE-Z017) PIERCE, (NE-Z031) MADISON

12/25/15 14:00 CST	0	Heavy Snow
12/26/15 05:00 CST	0	

(NE-Z016) ANTELOPE

12/25/15 14:00 CST	0	Winter Weather
12/26/15 05:00 CST	0	

As a strong storm system moved into the southern Plains, warm and moist air moved north across the central and into the northern Plains. This allowed for the development of widespread snowfall, occasionally heavy at times, over northeast Nebraska. The snowfall started on Christmas evening, lasting through the night and ending early in the morning on the 26th.