

Storm Data and Unusual Weather Phenomena - January 2011

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

(IA-Z043) MONONA, (IA-Z055) HARRISON, (IA-Z056) SHELBY, (IA-Z069) POTTAWATTAMIE, (IA-Z079) MILLS, (IA-Z080) MONTGOMERY, (IA-Z090) FREMONT, (IA-Z091) PAGE

01/09/11 06:00 CST	0	Winter Weather
01/11/11 03:00 CST	0	

Pacific moisture and warm air wrapped around a large upper level low pressure system that moved from the northern Rockies slowly southeast into the eastern Dakotas from Saturday January 8 into the morning of January 11th. This brought a 36 to 48 hour period of snow to eastern Nebraska and southwest Iowa. Although the snow was mostly light, periods of moderate snow were observed. In addition, since the snow fell for an extended time, total amounts over most of eastern Nebraska and southwest Iowa reached 7 to 10+ inches. Most of the heavier amounts, centered on a 24 hour period from the morning of the 9th through the morning of the 10th, were in northeast Nebraska. Winds during much of the event were 10 to 20 mph which limited blowing and drifting. However, winds did pick up during the afternoon and evening of 1/10 into the early morning hours of 1/11. This caused drifting snow across most of the region with some reduced visibilities in blowing snow as well. Heavier storm total snowfall amounts included...12 inches in Columbus and Oakdale, Nebraska, 11 inches near Verdel, Loretto, and Bloomfield, Nebraska and Little Sioux, Iowa and 10 inches at Norfolk, Wayne, Ft. Calhoun, Gretna, David City, Lyons, Neligh, and Weston, Nebraska and Castana, Iowa.

(IA-Z079) MILLS, (IA-Z090) FREMONT

01/22/11 16:00 CST	0	Winter Storm
01/23/11 05:00 CST	0	

(IA-Z043) MONONA

01/23/11 04:00 CST	0	Cold/Wind Chill
01/23/11 08:00 CST	0	

An upper level disturbance dropped southeast across Nebraska during the afternoon and evening of Jan. 22. This caused low pressure to develop over eastern Kansas with an inverted surface trough extending north into eastern Nebraska. Snow, occasionally heavy, developed along this trough during the afternoon of the 22nd and continued into the early morning hours of Jan. 23rd. Snow intensities in some cases exceeded 1 inch per hour, especially in a relatively narrow band from Norfolk through Fremont and into the western sections of Omaha where storm totals reached 6 to 8 inches or more. North to northeast winds increased to 15 to 25 mph toward the end of the event further reducing visibilities in blowing snow. Cold high pressure building in behind the system dropped lows by the 23rd to as cold as 15 below to 20 below zero in northeast Nebraska and western Iowa with wind chill values of 20 to 29 below zero. Heavier storm totals from the storm included...8.5 inches in Fremont, around 7 inches at Norfolk, Oakdale, the NWS in Valley, Schuyler and Bennington Nebraska and Sidney Iowa.

(IA-Z055) HARRISON, (IA-Z056) SHELBY, (IA-Z069) POTTAWATTAMIE, (IA-Z079) MILLS, (IA-Z080) MONTGOMERY, (IA-Z090) FREMONT, (IA-Z091) PAGE

01/31/11 08:00 CST	0	Winter Storm
01/31/11 23:59 CST	0	

A large upper level system that dropped southeast from the northern Rockies split into two pieces, one tracked across the central plains while the other drifted southwest across the southwestern U.S. Surface low pressure associated with the first piece tracked from northeast Texas across southeast Missouri and then into the lower Great Lakes region. Arctic air was pulled in behind this lead system and brought a massive winter storm to a very large part of the U.S. Freezing rain, heavy snow and blizzard conditions prevailed from the southern plains toward the Great Lakes, while record setting cold temperatures plunged southwest across western Texas, New Mexico and Arizona.

Across eastern Nebraska and southwest Iowa the storm initially spread freezing drizzle or light freezing rain, mixed at times with light snow, across much of the area during the early morning hours of Jan. 31. The precipitation changed over to all snow later on the 31st and continued into the late night hours of Feb. 1st. As Arctic air spilled in behind the system, dangerously cold wind chill values spread over the region late on the 1st and early on the 2nd. Increasing north to northwest winds on the 1st caused considerable blowing and drifting snow which closed some county roads and created near-blizzard conditions. The heavier snow from the storm was generally from around Lincoln and David City east and southeast into western Iowa, with most amounts across this area in the 5 to 7 inch range. Heavier snow totals from the storm in eastern Nebraska included; 6.9 inches in Omaha, 6.6 inches at the NWS in Valley, 6.2 inches in Virginia, and around 6 inches in Rulo, Shubert, Auburn, near Cedar Bluffs and Papillion and around 5 inches at David City, Lincoln and Beatrice. In southwest Iowa the heavier totals included; 7.5 inches in Glenwood, and around 5 inches at Harlan, Clarinda and Little Sioux.

NEBRASKA, East

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
(NE-Z011) KNOX, (NE-Z012) CEDAR, (NE-Z015) THURSTON, (NE-Z016) ANTELOPE, (NE-Z017) PIERCE, (NE-Z018) WAYNE, (NE-Z031) MADISON				
	01/01/11 00:00 CST		0	Cold/Wind Chill
	01/01/11 06:00 CST		0	
<p>As a storm system lifted northeast toward the upper Great Lakes region, cold Arctic air wrapping around it brought dangerously cold wind chill values to eastern Nebraska. Temperatures dropped into the single digits below and above zero and when combined with southwest winds of 15 to 25 mph wind chill values of 20 below to 25 below zero prevailed for several hours. Cloud patches and slightly milder air further wrapped around the system bringing moderating readings by New Year's morning. This episode carried over from Dec. 31, 2010.</p>				
(NE-Z015) THURSTON, (NE-Z033) CUMING, (NE-Z034) BURT, (NE-Z045) WASHINGTON, (NE-Z050) BUTLER, (NE-Z051) SAUNDERS, (NE-Z052) DOUGLAS, (NE-Z053) SARPY, (NE-Z065) SEWARD, (NE-Z066) LANCASTER, (NE-Z067) CASS, (NE-Z068) OTOE, (NE-Z078) SALINE, (NE-Z088) JEFFERSON, (NE-Z089) GAGE, (NE-Z090) JOHNSON, (NE-Z091) NEMAHA, (NE-Z092) PAWNEE, (NE-Z093) RICHARDSON				
	01/09/11 00:00 CST		0	Winter Weather
	01/10/11 23:00 CST		0	
(NE-Z011) KNOX, (NE-Z012) CEDAR, (NE-Z016) ANTELOPE, (NE-Z017) PIERCE, (NE-Z018) WAYNE, (NE-Z030) BOONE, (NE-Z031) MADISON, (NE-Z032) STANTON, (NE-Z042) PLATTE, (NE-Z043) COLFAX				
	01/09/11 02:00 CST		0	Winter Storm
	01/10/11 20:00 CST		0	
(NE-Z011) KNOX, (NE-Z012) CEDAR, (NE-Z015) THURSTON, (NE-Z016) ANTELOPE, (NE-Z017) PIERCE, (NE-Z018) WAYNE, (NE-Z030) BOONE, (NE-Z031) MADISON, (NE-Z032) STANTON, (NE-Z033) CUMING, (NE-Z034) BURT, (NE-Z042) PLATTE, (NE-Z043) COLFAX, (NE-Z044) DODGE				
	01/11/11 01:00 CST		0	Cold/Wind Chill
	01/12/11 09:00 CST		0	
<p>Pacific moisture and warm air wrapped around a large upper level low pressure system that moved from the northern Rockies slowly southeast into the eastern Dakotas from Saturday January 8 into the morning of January 11th. This brought a 36 to 48 hour period of snow to eastern Nebraska and southwest Iowa. Although the snow was mostly light, periods of moderate snow were observed. In addition, since the snow fell for an extended time, total amounts over most of eastern Nebraska and southwest Iowa reached 7 to 10+ inches. Most of the heavier amounts, centered on a 24 hour period from the morning of the 9th through the morning of the 10th, were in northeast Nebraska. Winds during much of the event were 10 to 20 mph which limited blowing and drifting. However, winds did pick up during the afternoon and evening of 1/10 and into the early morning hours of 1/11. This caused drifting snow across most of the region with some reduced visibilities in blowing snow as well. The stronger winds, and temperatures that dropped to zero or below, caused wind chill values to fall to 20 below to 29 below zero over northeast Nebraska on 1/11 and early on 1/12. Heavier storm total snowfall amounts included...12 inches in Columbus and Oakdale, Nebraska, 11 inches near Verdel, Loretto, and Bloomfield, Nebraska and Little Sioux, Iowa and 10 inches at Norfolk, Wayne, Ft. Calhoun, Gretna, David City, Lyons, Neligh, and Weston, Nebraska and Castana, Iowa.</p>				
(NE-Z078) SALINE, (NE-Z088) JEFFERSON, (NE-Z089) GAGE, (NE-Z090) JOHNSON, (NE-Z091) NEMAHA, (NE-Z092) PAWNEE, (NE-Z093) RICHARDSON				
	01/19/11 12:00 CST		0	Heavy Snow
	01/20/11 04:00 CST		0	
<p>An upper level disturbance that dropped southeast across Nebraska and Kansas brought light to occasionally moderate snow to much of eastern Nebraska and southwest Iowa on Jan. 19th and early on the 20th. Moisture with the storm was modest, but the storm was very efficient in producing snow as temperatures were sufficiently cold to bring high snow to liquid ratios, in some cases 20 to 1 or higher. The heaviest snow from this system stretched from the Sandhills of Nebraska into southeast Nebraska and adjacent parts of Kansas and Missouri. In southeast Nebraska amounts were generally in the 5 to 7 inch range southwest through southeast of Lincoln. Heavier amounts in this area included; 7 inches near Salem, and around 6 inches in or near Tecumseh, Rulo, Friend, Wilber, Virginia and Auburn. Winds were generally 10 to 15 mph.</p>				
(NE-Z017) PIERCE, (NE-Z031) MADISON, (NE-Z032) STANTON, (NE-Z042) PLATTE, (NE-Z043) COLFAX, (NE-Z044) DODGE, (NE-Z045) WASHINGTON, (NE-Z051) SAUNDERS, (NE-Z052) DOUGLAS, (NE-Z053) SARPY, (NE-Z067) CASS				
	01/22/11 13:00 CST		0	Winter Storm
	01/23/11 04:00 CST		0	
(NE-Z011) KNOX, (NE-Z012) CEDAR, (NE-Z015) THURSTON, (NE-Z016) ANTELOPE, (NE-Z017) PIERCE, (NE-Z018) WAYNE, (NE-Z030) BOONE, (NE-Z031) MADISON, (NE-Z032) STANTON, (NE-Z033) CUMING, (NE-Z034) BURT, (NE-Z042) PLATTE, (NE-Z043) COLFAX, (NE-Z044) DODGE				
	01/23/11 01:00 CST		0	Cold/Wind Chill
	01/23/11 08:00 CST		0	

An upper level disturbance dropped southeast across Nebraska during the afternoon and evening of Jan. 22. This caused low pressure to develop over eastern Kansas with an inverted surface trough extending north into eastern Nebraska. Snow, occasionally heavy,

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developed along this trough during the afternoon of the 22nd and continued into the early morning hours of Jan. 23rd. Snow intensities in some cases exceeded 1 inch per hour, especially in a relatively narrow band from Norfolk through Fremont and into the western sections of Omaha where storm totals reached 6 to 8 inches or more. North to northeast winds increased to 15 to 25 mph toward the end of the event further reducing visibilities in blowing snow. Cold high pressure building in behind the system dropped lows by the 23rd to as cold as 15 below to 20 below zero in northeast Nebraska with wind chill values of 20 to 29 below zero. Heavier storm totals from the storm included...8.5 inches in Fremont, around 7 inches at Norfolk, Oakdale, the NWS in Valley, Schuyler and Bennington Nebraska and Sidney Iowa. There were also reports of 7 to 9 inches across the western sections of Omaha.

(NE-Z012) CEDAR, (NE-Z015) THURSTON, (NE-Z018) WAYNE, (NE-Z033) CUMING, (NE-Z034) BURT, (NE-Z044) DODGE, (NE-Z045) WASHINGTON, (NE-Z050) BUTLER, (NE-Z051) SAUNDERS, (NE-Z052) DOUGLAS, (NE-Z053) SARPY, (NE-Z066) LANCASTER, (NE-Z067) CASS, (NE-Z068) OTOE, (NE-Z089) GAGE, (NE-Z090) JOHNSON, (NE-Z091) NEMAHA, (NE-Z092) PAWNEE, (NE-Z093) RICHARDSON

01/31/11 05:00 CST	0	Winter Storm
01/31/11 23:59 CST	0	

A large upper level system that dropped southeast from the northern Rockies split into two pieces, one tracked across the central plains while the other drifted southwest across the southwestern U.S. Surface low pressure associated with the first piece tracked from northeast Texas across southeast Missouri and then into the lower Great Lakes region. Arctic air was pulled in behind the lead system and brought a massive winter storm to a very large part of the U.S. Freezing rain, heavy snow and blizzard conditions prevailed from the southern plains toward the Great Lakes, while record setting cold temperatures plunged southwest across western Texas, New Mexico and Arizona behind the southwest digging system.

Across eastern Nebraska and southwest Iowa the storm initially spread freezing drizzle or light freezing rain, mixed at times with light snow, across much of the area during the early morning hours of Jan. 31. The precipitation changed over to all snow later on the 31st and continued into the late night hours of Feb. 1st. As Arctic air spilled in behind the system, dangerously cold wind chill values spread over the region late on the 1st and early on the 2nd. Increasing north to northwest winds on the 1st caused considerable blowing and drifting snow which closed some county roads and created near-blizzard conditions. The heavier snow from the storm was generally from around Lincoln and David City east and southeast into western Iowa, with most amounts across this area in the 5 to 7 inch range. Heavier snow totals from the storm in eastern Nebraska included; 6.9 inches in Omaha, 6.6 inches at the NWS in Valley, 6.2 inches in Virginia, and around 6 inches in Rulo, Shubert, Auburn, near Cedar Bluffs and Papillion and around 5 inches at David City, Lincoln and Beatrice. In southwest Iowa the heavier totals included; 7.5 inches in Glenwood, and around 5 inches at Harlan, Clarinda and Little Sioux.