Storm Data and Unusual Weather Phenomena - January 2010

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

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

01/06/10 02:00 CST	0		Winter Storm
01/06/10 22:30 CST	0		

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

01/06/10 17:00 CST	0		Winter Weather
01/07/10 19:00 CST	0		

(IA-Z043) MONONA

01/07/10 19:00 CST	0		Extreme Cold/Wind Chill
01/08/10 12:00 CST	0		

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

01/07/10 19:00 CST	0		Cold/Wind Chill
01/08/10 12:00 CST	0		

This was the third winter storm in a month that hit eastern Nebraska and southwest Iowa. An upper level disturbance dropped down out of Canada and closed off over the central plains before moving off to the east. This system pulled down Arctic air behind it and not only produced strong winds but also dangerously cold wind chill values. Even though snow amounts from this storm were about half as much or less than the storms that hit in December of 2009, and winds were similar or perhaps even a bit lighter, they lasted a relatively long time. Plus the new snow from this storm fell on top of a base of older snow that was around 10 to 20 inches over much of the area. Thus substantial blowing and drifting snow was observed with visibilities frequently 1 mile or less. In addition, the drifting snow from this storm was possibly worse than the prior two storms and many, if not most, rural roads became impassable for several days, as did many highways and interstates over the region. Many schools were closed for 3 days from the storm, from the snow and blowing snow at first then because of the drifting snow and dangerously cold wind chills that persisted.

Snow totals were generally 3 to 6 inches from the storm with 6 inches at Nebraska City, around 5 inches at the NWS office near Valley, at Omaha-Eppley, Shubert, and Papillion, Nebraska and at Clarinda and Glenwood, Iowa among the highest reported.

(IA-Z043) MONONA, (IA-Z055) HARRISON, (IA-Z056) SHELBY, (IA-Z069) POTTAWATTAMIE

01/19/10 23:00 CST	0		Ice Storm
01/20/10 07:00 CST	0		

An upper level disturbance that lifted across the central plains caused a weak area of low pressure to lift across the area. The disturbance brought slightly milder and moister air aloft which produced freezing rain with pockets of substantial glazing. The hardest hit area was north through east of Omaha with some areas northeast of Omaha, especially around the Harlan area, picking up between 1/2 and 1 inch of ice. The weight of the ice caused tree damage and power outages. Some schools in the area were closed for 2 days because of lack of power and/or slick roads. Thousands of customers lost power, some for at least several days, with the hardest hit area from around Sioux City southeast through Harlan.

(IA-Z055) HARRISON, (IA-Z069) POTTAWATTAMIE, (IA-Z079) MILLS

01/24/10 17:00 CST	0		Winter Weather
01/25/10 10:00 CST	0		

Bands of snow showers spread southeast across the area driven by an upper level disturbance over South Dakota and some weak heating prior to the snow showers. The snow only amounted to an inch or two over the area, but some earlier sunshine and temperatures near freezing had created warm roads surfaces. So when the snow started falling and temperatures fell through the 20s, the somewhat warm road surfaces and traffic had caused partial melting and then refreezing creating some very slick roads. Many cars slid off of roads, especially on Interstate 80 from near the Platte River into the Omaha/Council Bluffs area and also on other roads and highways in the area. In addition, northwest winds of 25 to 40 mph accompanied the snow and caused poor visibilities. Conditions became especially bad over parts of the area the next day when additional snow fell with even slightly stronger winds causing blizzard conditions.

(IA-Z043) MONONA, (IA-Z055) HARRISON, (IA-Z056) SHELBY, (IA-Z069) POTTAWATTAMIE

Storm Data and Unusual Weather Phenomena - January 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	01/25/10 08:00 CST		0	Blizzard
	01/25/10 18:00 CST		0	

Blizzard conditions prevailed over parts of west central Iowa on January 25th as an upper level low pressure system dropped from South Dakota into the mid Mississippi River Valley while an area of low pressure at the surface tracked from Minnesota and Iowa into the Great Lakes region. The system brought snow to the region, and a tight pressure gradient between the low and Arctic air spilling in behind it caused very strong winds. The resultant 35 to 50 mph winds combined with the snow and produced whiteout conditions, especially in open areas, with many roads deemed impassable or nearly so. The poor visibilities and slick roads caused numerous accidents and prompted the roads department to pull plows from the roads. Total snowfall from the storm was generally 2 to 4 inches, with much of it falling the day before conditions got exceptionally bad.

NEBRASKA, East

(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, (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

01/06/10 02:00 CST	0	Winter Storm
01/06/10 22:30 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, (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

01/06/10 15:00 CST	0	Winter Weather
01/07/10 19:00 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-Z042) PLATTE, (NE-Z043) COLFAX, (NE-Z050) BUTLER

01/07/10 19:00 CST	0	Extreme Cold/Wind Chill
01/08/10 12:00 CST	0	

(NE-Z034) BURT, (NE-Z044) DODGE, (NE-Z045) WASHINGTON, (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

01/07/10 19:00 CST	0	Cold/Wind Chill
01/08/10 12:00 CST	0	

This was the third winter storm in a month that hit eastern Nebraska and southwest Iowa and was caused by an upper level disturbance that dropped out of Canada and closed off over the central plains before moving off to the east. This system pulled down Arctic air behind it and not only produced strong winds but also dangerously cold wind chill values. Even though snow amounts from this storm were about half as much or less than the storms that hit in December of 2009, and winds were similar or perhaps even a bit lighter, they lasted a relatively long time. Plus the snow from this storm fell on top of a base of older snow that was around 10 to 20 inches deep over much of the area. Thus, substantial blowing and drifting snow was observed with visibilities frequently 1 mile or less. In addition, the drifting snow from this storm was possibly worse than the prior two storms and many, if not most, rural roads became impassable for several days, as did many highways and interstates over the region. Due to drifts which reached as high as 12 feet and during the height of the storm 100 percent of county roads in eastern Nebraska were partially or completely closed and 95 percent of highways in northeast Nebraska were blocked. The task of snow removal was so daunting in some areas that the Department of Roads sent large rotary plows and other equipment from western Nebraska to help churn snow off the roads in eastern Nebraska. Many schools were closed for 3 days because of the snow and blowing snow at first, then because of the drifting snow and dangerously cold wind chills that persisted.

Snow totals were generally 3 to 6 inches from the storm with 6 inches at Nebraska City, around 5 inches at the NWS office near Valley, at Omaha-Eppley, Shubert, and Papillion among the highest reported. President Obama granted disaster declarations for many counties hit by this storm and the one in late December. In a letter requesting the aid, the governor of Nebraska stated the "severity and magnitude" of the storms were beyond the capabilities of the state.

(NE-Z015) THURSTON, (NE-Z033) CUMING, (NE-Z034) BURT, (NE-Z045) WASHINGTON

Storm Data and Unusual Weather Phenomena - January 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	01/19/10 23:30 CST		0	Ice Storm
	01/20/10 07:00 CST		0	

An upper level disturbance that lifted across the central plains caused a weak area of low pressure to lift across the area. The disturbance brought slightly milder and more moist air aloft which produced freezing rain with pockets of substantial glazing. The hardest hit area was northwest through east of Omaha. Some locations north of Omaha received upwards of a 1/2 inch of ice accumulations. The weight of the ice caused areas of tree damage along with downing power lines and causing power pole damage. Northeast Nebraska Public Power reported that 4,200 customers lost power from the storm, and some remained without power for several days. Several schools in the area were closed on Jan. 20th and some rural mail delivery was canceled.

(NE-Z015) THURSTON, (NE-Z018) WAYNE, (NE-Z034) BURT, (NE-Z044) DODGE, (NE-Z045) WASHINGTON, (NE-Z051) SAUNDERS, (NE-Z052) DOUGLAS, (NE-Z053) SARPY, (NE-Z067) CASS

01/24/10 16:00 CST	0		Winter Weather
01/25/10 04:00 CST	0		

Bands of snow showers spread southeast across the area driven by an upper level disturbance over South Dakota and some weak heating prior to the snow showers. The snow only amounted to an inch or two over the area, but some earlier sunshine and temperatures near freezing had created warm roads surfaces. So when the snow started falling and temperatures fell through the 20s, the somewhat warm road surfaces and traffic had caused partial melting and then refreezing creating some very slick roads. Many cars slid off of roads, especially on Interstate 80 from near the Platte River into Omaha and also on other roads and highways in the area. In addition, northwest winds of 25 to 40 mph accompanied the snow and caused poor visibilities. In the far northeast Nebraska counties the temperatures were a bit cooler when the snow started and thus the blowing and drifting was more severe and lasted longer than locations farther south.

(NE-Z011) KNOX, (NE-Z012) CEDAR, (NE-Z017) PIERCE

01/24/10 16:00 CST	0		Blizzard
01/25/10 17:00 CST	0		

Blizzard conditions prevailed over parts of extreme northeast Nebraska on January 24th and 25th as an upper level low pressure system dropped from South Dakota into the mid Mississippi River Valley while an area of low pressure at the surface tracked from Minnesota and Iowa into the Great Lakes region. The system brought snow to the region, and a tight pressure gradient between the low and Arctic air spilling in behind it caused very strong winds. The resultant 35 to 50 mph winds combined with the snow and produced whiteout conditions, especially in open areas, with many roads deemed impassable or nearly so. The poor visibilities and slick roads caused numerous accidents and prompted the roads department to pull plows from the roads. Total snowfall from the storm was generally 2 to 4 inches, with much of it falling on the 24th. The drifting snow and poor visibilities caused many schools to be canceled on the 25th and some even on the 26th.