

Storm Data and Unusual Weather Phenomena - December 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 | | | | |
| | 12/11/10 11:00 CST | | 0 | Blizzard |
| | 12/12/10 01:00 CST | | 0 | |
| (IA-Z080) MONTGOMERY, (IA-Z091) PAGE | | | | |
| | 12/11/10 11:00 CST | | 0 | Winter Weather |
| | 12/12/10 03:00 CST | | 0 | |
| (IA-Z043) MONONA | | | | |
| | 12/11/10 23:00 CST | | 0 | Cold/Wind Chill |
| | 12/12/10 08:00 CST | | 0 | |

Blizzard conditions developed over eastern Nebraska and adjacent portions of South Dakota and Iowa on Dec. 11 as an upper level low pressure developed rapidly over eastern Nebraska during the very early morning hours of that day. The upper low then dropped into south central Iowa causing surface low pressure to spin-up over northeast Nebraska and then track southeast across Iowa. Arctic air spilling in behind the system combined with the developing storm to produce the blizzard conditions as northwest winds of 30 to 40 mph with gusts over 50 mph were common over the area along with snowfall of 2 to 5 inches. Higher snow amounts were observed from southeast South Dakota into Minnesota and northern Iowa. However, the 2 to 5 inches of snow across much of eastern Nebraska and western Iowa, and the strong winds present, were enough to produce white-out conditions and to close some highways in northeast Nebraska. Heavier snow totals included 5 inches in Neligh and Bloomfield Nebraska and near Little Sioux Iowa, 4 inches at the NWS in Valley and 3 inches in Fremont Nebraska and Harlan Iowa. Temperatures which fell from the single digits to around zero or a little below late on the 11th and into the 12th combined with the strong winds to lower wind chill values to 20 below or a little colder, mainly in northeast Nebraska.

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| NEBRASKA, East | | | | |
| (NE-Z011) KNOX, (NE-Z012) CEDAR, (NE-Z015) THURSTON, (NE-Z016) ANTELOPE, (NE-Z017) PIERCE, (NE-Z018) WAYNE, (NE-Z031) MADISON, (NE-Z032) STANTON, (NE-Z033) CUMING, (NE-Z034) BURT, (NE-Z044) DODGE, (NE-Z045) WASHINGTON, (NE-Z051) SAUNDERS, (NE-Z052) DOUGLAS, (NE-Z053) SARPY, (NE-Z067) CASS | | | | |
| | 12/11/10 05:00 CST | | 0 | Blizzard |
| | 12/11/10 21:00 CST | | 0 | |
| (NE-Z030) BOONE | | | | |
| | 12/11/10 11:00 CST | | 5K | Strong Wind (MAX 47 kt) |
| | 12/11/10 14:00 CST | | 0 | |
| (NE-Z066) LANCASTER | | | | |
| | 12/11/10 19:15 CST | | 0 | High Wind (MAX 50 kt) |
| | 12/11/10 19:15 CST | | 0 | |
| (NE-Z011) KNOX, (NE-Z012) CEDAR, (NE-Z015) THURSTON, (NE-Z016) ANTELOPE, (NE-Z017) PIERCE, (NE-Z018) WAYNE, (NE-Z031) MADISON, (NE-Z032) STANTON, (NE-Z033) CUMING | | | | |
| | 12/11/10 22:00 CST | | 0 | Cold/Wind Chill |
| | 12/12/10 10:00 CST | | 0 | |

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northeast Nebraska.

(NE-Z016) ANTELOPE, (NE-Z032) STANTON, (NE-Z042) PLATTE, (NE-Z043) COLFAX, (NE-Z044) DODGE, (NE-Z050) BUTLER, (NE-Z053) SARPY, (NE-Z065) SEWARD, (NE-Z066) LANCASTER

| | | | | |
|--|--------------------|--|---|----------------|
| | 12/15/10 13:00 CST | | 0 | Winter Weather |
| | 12/15/10 20:00 CST | | 0 | |

A weak and relatively fast-moving weather disturbance brought a quick shot of freezing rain, sleet and snow to sections of eastern Nebraska on December 15th. Although ice accumulations were very light, and any snow accumulations were an inch or less, the combination fell from mid afternoon into early evening and caused numerous accidents in the area.

(NE-Z011) KNOX, (NE-Z012) CEDAR, (NE-Z015) THURSTON, (NE-Z016) ANTELOPE, (NE-Z017) PIERCE, (NE-Z018) WAYNE, (NE-Z031) MADISON, (NE-Z050) BUTLER, (NE-Z065) SEWARD

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|--|--------------------|--|---|-----------------|
| | 12/31/10 18:00 CST | | 0 | Cold/Wind Chill |
| | 12/31/10 23:59 CST | | 0 | |

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 New Year's Eve and early New Years Day. 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 New Year's morning.