

## Storm Data and Unusual Weather Phenomena - December 2012

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-Z090) FREMONT

12/01/12 00:00 CST	0	Drought
12/31/12 23:59 CST	0	

The drought intensity remained in the Extreme category during December from around Glenwood through Onawa, with a Moderate or Severe Drought across the area southeast of there. Precipitation for the month was generally 1/2 to 1 inch, around 1/4 to 1/2 inch below normal. The drought persisted over western Iowa into January.

(IA-Z043) MONONA, (IA-Z056) SHELBY, (IA-Z069) POTTAWATTAMIE, (IA-Z090) FREMONT, (IA-Z091) PAGE

12/19/12 16:00 CST	0	Winter Storm
12/20/12 12:30 CST	0	

(IA-Z043) MONONA, (IA-Z055) HARRISON, (IA-Z056) SHELBY, (IA-Z069) POTTAWATTAMIE, (IA-Z079) MILLS

12/19/12 21:00 CST	0	Blizzard
12/20/12 12:00 CST	0	

A winter storm developed over the western United States on December 18th, and then moved into the central Plains on the 19th producing heavy snow, localized areas of sleet and freezing rain, and in some areas blizzard conditions. Light rain developed during the late morning and early afternoon on December 19th as moisture spread north into the area from the south. As cooler air worked into the storm system from the north, the rain mixed with and eventually changed over to snow. The change over from rain to snow initially occurred over central Nebraska, spreading into northeast and east central Nebraska, and eventually west central Iowa by mid to late afternoon. Snowfall coverage and intensity increased into the evening hours as the upper level storm system moved through Kansas. Areas of thunder snow were reported in parts of east central Nebraska and southwest Iowa. The snow mixed with sleet and freezing rain over parts of southwest Iowa during the event before finally changing over to all snow just before midnight. The change-over from rain to snow also occurred just before midnight over parts of far southeast Nebraska. As the area of surface low pressure deepened and moved through Missouri toward eastern Iowa, northwest winds increased across eastern Nebraska and western Iowa. Wind speeds of 40 to 50 mph were common from late evening on the 19th into the morning hours of the 20th. The combination of falling temperatures and increasing winds led to significant blowing and drifting of snow and areas of blizzard conditions, especially in open areas. Winds also combined with the initially heavy wet nature of the snow to create power outages for over 45,000 customers across the area. The heaviest snow fell in a band from Butler and Seward County in Nebraska, through the Omaha and Lincoln metro areas, and into west central Iowa. In this band 8 to 10 inches of snow were common with isolated amounts up to 10 inches reported in Saunders and Sarpy County in Nebraska. To the north and the south of this band snowfall amounts were lighter with 3 to 6 inches common. There were also reports of over a quarter inch of sleet and freezing rain in southwest Iowa around Page County, before the precipitation switched over to all snow. The storm finally came to an end by mid day on the 20th as the system pushed off to the east and the winds diminished.

### 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

12/01/12 00:00 CST	0	Drought
12/31/12 23:59 CST	0	

Drought conditions improved little across eastern Nebraska during December although some areas of southeast and east central Nebraska received 1 to 1.5 inches or more of precipitation, in some cases more than 1/2 inch above normal. Precipitation across the far southeast and far northeast parts of the state was around or a little below 1/2 inch. Thus, Exceptional Drought conditions continued in northeast Nebraska near and northwest of a line from Columbus to Pender with the Drought intensity remaining in the Extreme category southeast of there from around Lincoln and Beatrice northeast through Omaha and Tekamah. Conditions were slightly better southeast of Lincoln and Omaha, but they were still in the Severe category. The drought persisted into January.

(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

12/19/12 13:00 CST	0	Winter Storm
12/20/12 12:30 CST	0	

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(NE-Z034) BURT, (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	12/19/12 19:00 CST	0		Blizzard
	12/20/12 11:00 CST	0		

A winter storm developed over the western United States on December 18th, and then moved into the central Plains on the 19th producing heavy snow, localized areas of sleet and freezing rain, and in some areas blizzard conditions. Light rain developed during the late morning and early afternoon on December 19th as moisture spread north into the area from the south. As cooler air worked into the storm system from the north, the rain mixed with and eventually changed over to snow. The change over from rain to snow initially occurred over central Nebraska, spreading into northeast and east central Nebraska, and eventually west central Iowa by mid to late afternoon. Snowfall coverage and intensity increased into the evening hours as the upper level storm system moved through Kansas. Areas of thunder snow were reported in parts of east central Nebraska and southwest Iowa. The snow mixed with sleet and freezing rain over parts of southwest Iowa during the event before finally changing over to all snow just before midnight. The change-over from rain to snow also occurred just before midnight over parts of far southeast Nebraska. As the area of surface low pressure deepened and moved through Missouri toward eastern Iowa, northwest winds increased across eastern Nebraska and western Iowa. Wind speeds of 40 to 50 mph were common from late evening on the 19th into the morning hours of the 20th. The combination of falling temperatures and increasing winds led to significant blowing and drifting of snow and areas of blizzard conditions, especially in open areas. Winds also combined with the initially heavy wet nature of the snow to create power outages for over 45,000 customers across the area. The heaviest snow fell in a band from Butler and Seward County in Nebraska, through the Omaha and Lincoln metro areas, and into west central Iowa. In this band 8 to 10 inches of snow were common with isolated amounts up to 10 inches reported in Saunders and Sarpy County in Nebraska. To the north and the south of this band snowfall amounts were lighter with 3 to 6 inches common. There were also reports of over a quarter inch of sleet and freezing rain in southwest Iowa around Page County, before the precipitation switched over to all snow. The storm finally came to an end by mid day on the 20th as the system pushed off to the east and the winds diminished.

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(NE-Z011) KNOX, (NE-Z018) WAYNE	12/27/12 07:00 CST	0		Heavy Snow
	12/28/12 10:00 CST	0		

An upper level system that lifted across the central plains brought a 12 to 24 hour period of snow to northeast Nebraska as an area of surface low pressure tracked slowly across the area. Snow amounts were mostly 3 to 4 inches, but isolated locations picked up 6 to 8, including nearly 8 inches at Verdel, 7 inches in Wayne and nearly 6 inches at Bloomfield. With cold air in place during the event, snow to liquid ratios were high, generally 20 to 1 to higher.