

Storm Data and Unusual Weather Phenomena - February 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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NORTH DAKOTA, Central and West

(ND-Z001) DIVIDE, (ND-Z002) BURKE, (ND-Z003) RENVILLE, (ND-Z004) BOTTINEAU, (ND-Z005) ROLETTE, (ND-Z009) WILLIAMS, (ND-Z010) MOUNTRAIL, (ND-Z011) WARD, (ND-Z012) MCHENRY, (ND-Z013) PIERCE, (ND-Z017) MCKENZIE, (ND-Z018) DUNN, (ND-Z019) MERCER, (ND-Z020) OLIVER, (ND-Z021) MCLEAN, (ND-Z022) SHERIDAN, (ND-Z023) WELLS, (ND-Z031) GOLDEN VALLEY, (ND-Z032) BILLINGS, (ND-Z033) STARK, (ND-Z034) MORTON, (ND-Z035) BURLEIGH, (ND-Z040) SLOPE, (ND-Z041) HETTINGER, (ND-Z042) GRANT, (ND-Z043) BOWMAN, (ND-Z044) ADAMS	02/01/11 00:00 CST		0	Extreme Cold/Wind Chill
	02/01/11 12:00 CST		0	

Dangerous wind chill conditions developed across North Dakota January 31 through February 1 as Arctic high pressure pushed into the region. North winds up to 15 mph combined with subzero temperatures to result in wind chill temperatures of 40 below to 55 below zero. (See January 2011 Storm Data).

(ND-Z001) DIVIDE, (ND-Z002) BURKE, (ND-Z003) RENVILLE, (ND-Z004) BOTTINEAU, (ND-Z005) ROLETTE, (ND-Z009) WILLIAMS, (ND-Z010) MOUNTRAIL, (ND-Z011) WARD, (ND-Z012) MCHENRY, (ND-Z013) PIERCE, (ND-Z017) MCKENZIE, (ND-Z018) DUNN, (ND-Z019) MERCER, (ND-Z020) OLIVER, (ND-Z021) MCLEAN, (ND-Z022) SHERIDAN, (ND-Z023) WELLS, (ND-Z025) FOSTER, (ND-Z031) GOLDEN VALLEY, (ND-Z032) BILLINGS, (ND-Z033) STARK, (ND-Z034) MORTON, (ND-Z035) BURLEIGH, (ND-Z036) KIDDER, (ND-Z037) STUTSMAN, (ND-Z040) SLOPE, (ND-Z041) HETTINGER, (ND-Z042) GRANT, (ND-Z043) BOWMAN, (ND-Z044) ADAMS, (ND-Z045) SIOUX, (ND-Z046) EMMONS, (ND-Z047) LOGAN, (ND-Z048) LA MOURE, (ND-Z050) MCINTOSH, (ND-Z051) DICKEY	02/01/11 18:00 CST	1	0	Extreme Cold/Wind Chill
	02/02/11 12:00 CST		0	

Direct Fatalities: F29OU

Dangerous wind chill conditions redeveloped across the region the night of February 1 through February 2 as Arctic high pressure remained over the area. Winds up to 15 mph combined with subzero temperatures to result in wind chill temperatures of 40 below to 50 below zero. One fatality (direct) occurred due to the extreme cold in rural Williams County.

(ND-Z001) DIVIDE, (ND-Z002) BURKE, (ND-Z003) RENVILLE, (ND-Z004) BOTTINEAU, (ND-Z005) ROLETTE, (ND-Z009) WILLIAMS, (ND-Z010) MOUNTRAIL, (ND-Z011) WARD, (ND-Z012) MCHENRY, (ND-Z013) PIERCE, (ND-Z017) MCKENZIE, (ND-Z018) DUNN, (ND-Z019) MERCER, (ND-Z020) OLIVER, (ND-Z021) MCLEAN, (ND-Z022) SHERIDAN, (ND-Z023) WELLS, (ND-Z025) FOSTER, (ND-Z031) GOLDEN VALLEY, (ND-Z032) BILLINGS, (ND-Z033) STARK, (ND-Z034) MORTON, (ND-Z035) BURLEIGH, (ND-Z036) KIDDER, (ND-Z037) STUTSMAN, (ND-Z041) HETTINGER, (ND-Z042) GRANT, (ND-Z043) BOWMAN, (ND-Z044) ADAMS, (ND-Z045) SIOUX, (ND-Z046) EMMONS, (ND-Z047) LOGAN, (ND-Z048) LA MOURE, (ND-Z050) MCINTOSH, (ND-Z051) DICKEY	02/08/11 00:00 CST		0	Extreme Cold/Wind Chill
	02/08/11 12:00 CST		0	

Dangerous wind chill conditions developed across North Dakota the morning of February 8 as Arctic high pressure moved into the region. Winds up to 15 mph combined with subzero temperatures to result in wind chill temperatures of 40 below to near 50 below zero.

(ND-Z001) DIVIDE, (ND-Z002) BURKE, (ND-Z003) RENVILLE, (ND-Z004) BOTTINEAU, (ND-Z005) ROLETTE, (ND-Z009) WILLIAMS, (ND-Z010) MOUNTRAIL, (ND-Z011) WARD, (ND-Z012) MCHENRY, (ND-Z013) PIERCE, (ND-Z017) MCKENZIE, (ND-Z018) DUNN, (ND-Z019) MERCER, (ND-Z020) OLIVER, (ND-Z021) MCLEAN, (ND-Z022) SHERIDAN, (ND-Z023) WELLS, (ND-Z025) FOSTER, (ND-Z031) GOLDEN VALLEY, (ND-Z032) BILLINGS, (ND-Z033) STARK, (ND-Z034) MORTON, (ND-Z035) BURLEIGH, (ND-Z036) KIDDER, (ND-Z037) STUTSMAN, (ND-Z040) SLOPE, (ND-Z041) HETTINGER, (ND-Z042) GRANT, (ND-Z043) BOWMAN, (ND-Z044) ADAMS, (ND-Z045) SIOUX, (ND-Z046) EMMONS, (ND-Z047) LOGAN, (ND-Z048) LA MOURE, (ND-Z050) MCINTOSH, (ND-Z051) DICKEY	02/13/11 09:00 CST		0.70M	High Wind (MAX 58 kt)
	02/13/11 21:00 CST	1	0	

An area of deep low pressure moving across south central Canada, combined with high pressure building across Montana, resulted in high winds across western and central North Dakota on February 13. Many areas experienced sustained winds of 40 mph or greater, with several peak wind gusts in excess of 60 mph. A semi trailer was blown over in Billings County resulting in injury (direct) to the driver.

ROLETTE COUNTY --- 3.1 NNW BELCOURT [48.87, -99.76], 2.8 N BELCOURT [48.87, -99.74], 0.7 S BELCOURT [48.82, -99.73], 1.1 SW BELCOURT [48.82, -99.75]	02/15/11 00:00 CST		0.20M	Flood (due to Heavy Rain / Snow Melt)
	02/20/11 23:00 CST		0	Source: Other Federal Agency

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Flooding was the result of a minor early melt dislodging a stop log on a dam upstream of Belcourt along Ox Creek. Contributing to this flooding through Belcourt was the inappropriate disposal of heavy snow from the season into the creek bed. Flooded was a number of homes and the dialysis center at the local hospital. There were 26 Project Worksheets (PW). Estimated damages were \$200,000.

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02/17/11 11:00 CST				Blizzard
02/17/11 21:00 CST				

Low pressure pushing across North Dakota brought strong winds and accumulating snow on February 17. While the strong winds impacted the entire local area, the accumulating snow was confined to the northwest and north central parts of the state. Although the storm total snow accumulations were only two to four inches, wind gusts up to 45 mph combined with the falling snow to result in a blizzard. Many roads were closed and numerous travel advisories were issued by county and state officials.

(ND-Z031) GOLDEN VALLEY, (ND-Z032) BILLINGS, (ND-Z033) STARK, (ND-Z034) MORTON, (ND-Z040) SLOPE, (ND-Z041) HETTINGER, (ND-Z042) GRANT, (ND-Z043) BOWMAN, (ND-Z044) ADAMS, (ND-Z045) SIOUX, (ND-Z046) EMMONS

02/19/11 21:00 CST				Heavy Snow
02/20/11 23:30 CST				

(ND-Z047) LOGAN, (ND-Z048) LA MOURE, (ND-Z050) MCINTOSH, (ND-Z051) DICKEY

02/20/11 06:00 CST				Blizzard
02/21/11 03:00 CST				

Strong low pressure moving across the Central Plains brought moderate to heavy snow and blizzard conditions to parts of southwest and south central North Dakota. This episode started in the evening of February 19th, and ended during the early morning hours of February 21st.

Storm total snowfall amounts ranged from well over one foot across the southwest, and up to nine inches in the southern James River Basin of southeastern North Dakota. Northerly winds gusting to 50 mph occurred on the back side of the surface low across the eastern Dakotas, resulting in a prolonged period of blizzard conditions. Numerous travel advisories were issued during this episode by county and state officials. Some roads were closed and transportation was severely impacted.