

Storm Data and Unusual Weather Phenomena - February 2021

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

(ND-Z046) EMMONS, (ND-Z047) LOGAN, (ND-Z048) LA MOURE, (ND-Z050) MCINTOSH, (ND-Z051) DICKEY

02/01/21 00:00 CST	0.39M	Freezing Fog
02/03/21 10:00 CST	0	

Multiple days of dense fog combined with below freezing temperatures led to rime ice forming on power lines over portions of south central North Dakota into the southern James River Valley. Many power lines had rime ice accumulations of over three inches diameter, which led to lines sagging and some snapping. This included not only distribution lines, but also main transmission lines which feed power to substations. Approximately 2,000 electric customers suffered power outages, with some outages lasting a couple of days. Through the event, linemen were repairing snapped lines and manually clearing ice off the lines to prevent further breakage. In addition, 14 wooden power poles were broken from the weight of the ice covered lines.

(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

02/05/21 20:00 CST	0	Extreme Cold/Wind Chill
02/15/21 10:00 CST	0	

Frigid arctic high pressure situated along the lee of the Canadian Rockies into northeast Montana gradually pushed over the Northern Plains, bringing life threatening cold to western and central North Dakota. This after what had been a mild winter to that point. Initially, the coldest wind chills were found primarily over the northern portions of the area, but reinforcing rounds of cold air continued to push through, resulting in the life threatening cold pushing into the southern part of the state. Wind chill values to 60 below were experienced over northern locations, with values to 50 below over southern locations. Minot experienced twelve days in a row with low temperatures of 10 below zero or lower, with Bismarck experiencing ten days in a row of these conditions. These long runs of cold temperatures were attained with little to no snow on the ground.

(ND-Z021) MCLEAN, (ND-Z031) GOLDEN VALLEY, (ND-Z033) STARK, (ND-Z035) BURLEIGH, (ND-Z040) SLOPE, (ND-Z044) ADAMS

02/22/21 10:00 CST	0	High Wind (MAX 60 kt)
02/22/21 17:00 CST	0	

A tight pressure gradient formed over the region as a surface low gradually passed to the north. A cold front pushing through the area resulted in some light showers developing which enhanced the mixing of stronger winds aloft to the surface. This led to some strong wind gusts developing. The strongest wind gust was 69 mph which occurred in Adams County at the Hettinger Airport.