

Storm Data and Unusual Weather Phenomena - July 2024

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|---|--------------------|----------------------|------------------------|--------------------------------------|
| NORTH DAKOTA, Central and West | | | | |
| WARD COUNTY --- 0.9 W SURREY [48.23, -101.15] | | | | |
| | 07/01/24 15:40 CST | 0 | | Funnel Cloud |
| | 07/01/24 15:42 CST | 0 | | Source: Public |
| OLIVER COUNTY --- CENTER [47.12, -101.30] | | | | |
| | 07/01/24 15:45 CST | 0 | | Hail (1.25 in) |
| | 07/01/24 15:47 CST | 0 | | Source: Broadcast Media |
| MCLEAN COUNTY --- 0.8 NW WASHBURN [47.29, -101.03] | | | | |
| | 07/01/24 16:00 CST | 0 | | Hail (1.00 in) |
| | 07/01/24 16:03 CST | 0 | | Source: Public |
| <p>Showers and thunderstorms developed as a cold front pushed through North Dakota. Initially, a funnel cloud formed to the east of Minot, in Ward County, along a surface boundary with rain showers and weak thunderstorms. Additional thunderstorms developed with a couple of storms becoming severe over McLean and Oliver counties. The largest hail reported was a half-dollar in size, and occurred at Center in Oliver County.</p> | | | | |
| WELLS COUNTY --- 3.8 SE CHASELEY [47.40, -99.75], 4.2 SE CHASELEY [47.40, -99.75] | | | | |
| | 07/04/24 11:12 CST | 0 | | Tornado (EFU, L: 0.36 mi , W: 50 yd) |
| | 07/04/24 11:14 CST | 0 | | Source: Public |
| <p>The tornado touched down in an open field southeast of Chaseley and impacted no structures. There was no damage to evaluate. By National Weather Service policy the tornado is rated EF-U (Unknown).</p> <p>Thunderstorms developed as a broad upper low circulated over North Dakota. One thunderstorm produced a landspout tornado to the southeast of Chaseley, in Wells County. The tornado occurred in an open field and damaged no structures, thus by National Weather Service policy the tornado was rated EF-U (Unknown).</p> | | | | |
| WILLIAMS COUNTY --- 13.9 SE WHEELLOCK [48.15, -103.05] | | | | |
| | 07/05/24 12:45 CST | 0 | | Funnel Cloud |
| | 07/05/24 12:47 CST | 0 | | Source: Public |
| STARK COUNTY --- 3.5 NW (DIK)DICKINSON MUNI [46.83, -102.86] | | | | |
| | 07/05/24 15:05 MST | 0 | | Funnel Cloud |
| | 07/05/24 15:06 MST | 0 | | Source: Emergency Manager |
| MCLEAN COUNTY --- 0.5 E RAUB [47.75, -102.04] | | | | |
| | 07/05/24 18:05 CST | 0 | | Funnel Cloud |
| | 07/05/24 18:08 CST | 0 | | Source: Public |
| WARD COUNTY --- 5.9 ENE RYDER [47.95, -101.55] | | | | |
| | 07/05/24 19:28 CST | 0 | | Funnel Cloud |
| | 07/05/24 19:30 CST | 0 | | Source: Public |
| WELLS COUNTY --- 1.2 SW CHASELEY [47.44, -99.82] | | | | |
| | 07/06/24 11:00 CST | 0 | | Funnel Cloud |
| | 07/06/24 11:20 CST | 0 | | Source: Public |
| FOSTER COUNTY --- 0.8 SE BARLOW [47.56, -99.14] | | | | |
| | 07/06/24 12:15 CST | 0 | | Funnel Cloud |
| | 07/06/24 12:20 CST | 0 | | Source: Public |
| FOSTER COUNTY --- 6.3 WNW CARRINGTON ARPT [47.49, -99.27] | | | | |
| | 07/06/24 12:30 CST | 0 | | Funnel Cloud |
| | 07/06/24 12:34 CST | 0 | | Source: Mesonet |

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| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--|--------------------|-------------------|---------------------|--------------------------------------|
| MCKENZIE COUNTY --- 11.1 S RAWSON [47.66, -103.54] | | | | |
| | 07/06/24 13:44 MST | | 0 | Funnel Cloud |
| | 07/06/24 13:48 MST | | 0 | Source: Other Federal Agency |
| MOUNTRAIL COUNTY --- 1.1 SE ROSS [48.31, -102.51] | | | | |
| | 07/06/24 13:50 CST | | 0 | Funnel Cloud |
| | 07/06/24 13:53 CST | | 0 | Source: Public |
| DUNN COUNTY --- 14.1 NNE KILLDEER [47.57, -102.71] | | | | |
| | 07/06/24 15:48 MST | | 0 | Funnel Cloud |
| | 07/06/24 15:51 MST | | 0 | Source: Park/Forest Service |
| MOUNTRAIL COUNTY --- 3.8 WNW BELDEN [48.18, -102.42], 2.8 WNW BELDEN [48.17, -102.41] | | | | |
| | 07/06/24 16:06 CST | | 40K | Tornado (EF1, L: 1.22 mi , W: 75 yd) |
| | 07/06/24 16:13 CST | | 0 | Source: Emergency Manager |
| <p>The tornado touched down at a farmstead where multiple campers were parked. One camper was overturned and destroyed, and a small metal grain bin had its roof torn off. The tornado then proceeded into an open field with no other structures impacted. Based on the damage done the tornado was rated EF-1, with winds estimated to be approximately 90 MPH.</p> | | | | |
| MCLEAN COUNTY --- 5.5 S RIVERDALE [47.42, -101.38] | | | | |
| | 07/06/24 16:13 CST | | 0 | Funnel Cloud |
| | 07/06/24 16:17 CST | | 0 | Source: Mesonet |
| GRANT COUNTY --- 2.8 SE FREDA [46.32, -101.13] | | | | |
| | 07/07/24 14:30 MST | | 0 | Funnel Cloud |
| | 07/07/24 14:33 MST | | 0 | Source: Public |
| WELLS COUNTY --- 1.9 W HARVEY [47.77, -99.94] | | | | |
| | 07/08/24 14:45 CST | | 0 | Funnel Cloud |
| | 07/08/24 14:48 CST | | 0 | Source: Emergency Manager |
| <p>A deep low pressure system loitered over the Northern Plains and Upper Midwest for multiple days, producing many funnel clouds over western and central North Dakota over a four day period. One funnel touched down, becoming a tornado, in Mountrail County. The touchdown occurred on a farmstead where multiple campers were parked. One camper was rolled, causing significant damage. In addition, a small grain bin had its roof torn off. The tornado then proceeded into an open field before dissipating. Based on the damage done the tornado was rated EF-1, with winds estimated at 90 MPH.</p> | | | | |
| STUTSMAN COUNTY --- 0.5 W WINDSOR [46.90, -99.04] | | | | |
| | 07/09/24 16:35 CST | | 15K | Thunderstorm Wind (EG 65 kt) |
| | 07/09/24 16:39 CST | | 0 | Source: Public |
| <p>A dumpster was flipped, an awning was stripped off of a motor-home, a metal shed was displaced over 500 feet, and a chicken pen was flattened.</p> <p>An upper level short wave trough passing through the region combined with weak surface low pressure over the James River Valley to result in thunderstorm development over parts of central and eastern North Dakota. One thunderstorm became severe over Windsor, in Stutsman County, causing damage. Winds with this storm were estimated at 75 mph.</p> | | | | |
| DUNN COUNTY --- 8.2 SW EMERSON [47.10, -102.78], 8.2 SW EMERSON [47.09, -102.76] | | | | |
| | 07/12/24 13:10 MST | | 0 | Tornado (EFU, L: 1.00 mi , W: 75 yd) |
| | 07/12/24 13:14 MST | | 0 | Source: Law Enforcement |
| <p>The tornado touched down in an open field south of Manning and impacted no structures. There was no damage to evaluate. By National Weather Service policy the tornado is rated EF-U (Unknown).</p> | | | | |
| WILLIAMS COUNTY --- 1.7 SSE CORINTH [48.60, -103.30] | | | | |
| | 07/12/24 15:15 CST | | 0 | Hail (1.00 in) |
| | 07/12/24 15:18 CST | | 0 | Source: Public |
| WILLIAMS COUNTY --- 6.9 NW TIOGA [48.48, -103.02] | | | | |

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| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--|--------------------|----------------------|------------------------|------------------------------|
| | 07/12/24 15:25 CST | | 0 | Funnel Cloud |
| | 07/12/24 15:28 CST | | 0 | Source: Public |
| <hr/> | | | | |
| MOUNTRAIL COUNTY --- 0.8 NNW WHITE EARTH [48.39, -102.78] | | | | |
| | 07/12/24 16:00 CST | | 0 | Hail (1.00 in) |
| | 07/12/24 16:03 CST | | 0 | Source: Trained Spotter |
| <hr/> | | | | |
| MOUNTRAIL COUNTY --- 1.4 S MANITOU [48.31, -102.63] | | | | |
| | 07/12/24 16:15 CST | | 0 | Hail (1.00 in) |
| | 07/12/24 16:18 CST | | 0 | Source: Emergency Manager |
| <hr/> | | | | |
| MOUNTRAIL COUNTY --- 3.1 SW ROSS [48.29, -102.58] | | | | |
| | 07/12/24 16:17 CST | | 0 | Hail (1.50 in) |
| | 07/12/24 16:20 CST | | 0 | Source: Public |
| <hr/> | | | | |
| MOUNTRAIL COUNTY --- STANLEY MUNI ARPT [48.30, -102.40] | | | | |
| | 07/12/24 16:37 CST | | 0 | Hail (1.00 in) |
| | 07/12/24 16:39 CST | | 0 | Source: Trained Spotter |
| <hr/> | | | | |
| MOUNTRAIL COUNTY --- 3.5 S STANLEY MUNI ARPT [48.25, -102.39] | | | | |
| | 07/12/24 16:41 CST | | 0 | Hail (1.00 in) |
| | 07/12/24 16:44 CST | | 0 | Source: Public |
| <hr/> | | | | |
| MOUNTRAIL COUNTY --- 6.2 S PALERMO [48.24, -102.23] | | | | |
| | 07/12/24 16:55 CST | | 0 | Hail (1.75 in) |
| | 07/12/24 16:57 CST | | 0 | Source: Emergency Manager |
| <hr/> | | | | |
| MOUNTRAIL COUNTY --- 7.4 E EPWORTH [48.12, -102.06] | | | | |
| | 07/12/24 17:09 CST | | 0 | Hail (1.75 in) |
| | 07/12/24 17:12 CST | | 0 | Source: Emergency Manager |
| <hr/> | | | | |
| DUNN COUNTY --- 12.4 N KILLDEER [47.55, -102.78] | | | | |
| | 07/12/24 17:20 MST | | 0 | Hail (1.75 in) |
| | 07/12/24 17:23 MST | | 0 | Source: Trained Spotter |
| <hr/> | | | | |
| MOUNTRAIL COUNTY --- 0.5 E PLAZA [48.03, -101.96] | | | | |
| | 07/12/24 17:20 CST | | 5K | Thunderstorm Wind (EG 65 kt) |
| | 07/12/24 17:23 CST | | 0 | Source: Public |
| <hr/> | | | | |
| Large tree branches were blown down. | | | | |
| <hr/> | | | | |
| DUNN COUNTY --- 13.1 NNW KILLDEER [47.55, -102.86] | | | | |
| | 07/12/24 17:24 MST | | 0 | Hail (1.75 in) |
| | 07/12/24 17:26 MST | | 0 | Source: Public |
| <hr/> | | | | |
| DUNN COUNTY --- 9.3 NNW KILLDEER [47.50, -102.82] | | | | |
| | 07/12/24 17:30 MST | | 0 | Hail (2.75 in) |
| | 07/12/24 17:33 MST | | 0 | Source: Public |
| <hr/> | | | | |
| DUNN COUNTY --- 4.9 N KILLDEER [47.44, -102.75] | | | | |
| | 07/12/24 17:41 MST | | 0 | Hail (2.50 in) |
| | 07/12/24 17:44 MST | | 0 | Source: Public |
| <hr/> | | | | |
| WARD COUNTY --- 7.7 N RYDER [48.03, -101.65] | | | | |
| | 07/12/24 17:50 CST | | 0 | Hail (0.75 in) |
| | 07/12/24 17:53 CST | | 0 | Source: Public |

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|---|--------------------|----------------------|------------------------|------------------------------|
| MCHEMRY COUNTY --- 0.5 W UPHAM [48.58, -100.73] | | | | |
| | 07/12/24 18:49 CST | 0 | | Hail (0.88 in) |
| | 07/12/24 18:51 CST | 0 | | Source: Trained Spotter |
| MCLEAN COUNTY --- 5.5 N MERCER [47.56, -100.71] | | | | |
| | 07/12/24 19:50 CST | 0 | | Hail (1.00 in) |
| | 07/12/24 19:53 CST | 0 | | Source: Trained Spotter |
| MERCER COUNTY --- 5.8 WSW STANTON [47.30, -101.50] | | | | |
| | 07/12/24 19:51 CST | 0 | | Hail (1.00 in) |
| | 07/12/24 19:53 CST | 0 | | Source: Trained Spotter |
| MCLEAN COUNTY --- 0.8 NE MERCER [47.49, -100.71] | | | | |
| | 07/12/24 19:56 CST | 0 | | Hail (1.25 in) |
| | 07/12/24 19:59 CST | 0 | | Source: Public |
| OLIVER COUNTY --- CENTER [47.12, -101.30] | | | | |
| | 07/12/24 20:48 CST | 0 | | Hail (1.00 in) |
| | 07/12/24 20:51 CST | 0 | | Source: Public |
| OLIVER COUNTY --- 1.2 NW CENTER [47.13, -101.32] | | | | |
| | 07/12/24 20:50 CST | 0 | | Hail (1.75 in) |
| | 07/12/24 20:53 CST | 0 | | Source: Public |
| MORTON COUNTY --- 0.8 NE MANDAN [46.84, -100.89] | | | | |
| | 07/12/24 22:13 CST | 0 | | Hail (1.00 in) |
| | 07/12/24 22:16 CST | 0 | | Source: Public |
| DIVIDE COUNTY --- 8.3 S NOONAN [48.76, -103.01] | | | | |
| | 07/12/24 23:03 CST | 0 | | Thunderstorm Wind (MG 58 kt) |
| | 07/12/24 23:05 CST | 0 | | Source: Mesonet |
| WARD COUNTY --- 0.8 SSE (MIB)MINOT AFB [48.42, -101.36] | | | | |
| | 07/13/24 01:23 CST | 0 | | Thunderstorm Wind (MG 59 kt) |
| | 07/13/24 01:26 CST | 0 | | Source: Mesonet |
| PIERCE COUNTY --- 3.7 W RUGBY [48.37, -100.06] | | | | |
| | 07/13/24 05:09 CST | 0 | | Thunderstorm Wind (MG 56 kt) |
| | 07/13/24 05:11 CST | 0 | | Source: Mesonet |
| <p>Thunderstorms developed initially over western North Dakota during the afternoon and early evening hours before also forming over central North Dakota later in the evening. This as an upper level short wave trough approached the area and a frontal boundary moved in from Montana. The first storm to develop was over Dunn County and quickly produced a tornado. The tornado occurred over an open field south of Manning and impacted no structures. There was no damage to evaluate, therefore it was rated EF-U (Unknown) by NWS policy. Thereafter, the main threat with the thunderstorms was large hail. The largest reported hail was the size of a baseball, and also occurred in Dunn County. There were also reports of severe wind gusts, particularly towards the end of the event with the later storms. With that said, the strongest wind gust did occur during the middle of the event near Plaza, Mountrail County, where estimated 75 mph wind gusts cause tree damage.</p> | | | | |
| BOWMAN COUNTY --- 14.6 W RHAME [46.19, -103.95] | | | | |
| | 07/13/24 20:07 MST | 0 | | Thunderstorm Wind (MG 53 kt) |
| | 07/13/24 20:09 MST | 0 | | Source: Mesonet |
| SLOPE COUNTY --- 19.3 SE AMIDON [46.30, -103.01] | | | | |
| | 07/13/24 20:33 MST | 0 | | Thunderstorm Wind (MG 74 kt) |
| | 07/13/24 20:35 MST | 0 | | Source: Mesonet |

Severe thunderstorms formed over eastern Montana ahead of an upper level short wave trough and jet streak. Most of the severe

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|----------|-----------|-------------------|---------------------|------------------------|
|----------|-----------|-------------------|---------------------|------------------------|

weather remained over Montana and South Dakota, but a few storms grazed southwestern North Dakota resulting in severe wind gusts. The strongest reported wind gust of 85 mph occurred to the northeast of Scranton, in Slope County.

BOTTINEAU COUNTY --- 6.3 WSW ANTLER [48.94, -101.40]

| | | | | |
|--------------------|--|--|---|-------------------------|
| 07/14/24 16:35 CST | | | 0 | Hail (1.00 in) |
| 07/14/24 16:38 CST | | | 0 | Source: Trained Spotter |

BOTTINEAU COUNTY --- 3.9 ENE RUSSELL [48.69, -100.82]

| | | | | |
|--------------------|--|--|---|----------------|
| 07/14/24 17:40 CST | | | 0 | Hail (1.50 in) |
| 07/14/24 17:43 CST | | | 0 | Source: Public |

BOTTINEAU COUNTY --- 0.7 S WESTHOPE [48.91, -101.02]

| | | | | |
|--------------------|--|--|---|-------------------------|
| 07/14/24 18:07 CST | | | 0 | Hail (1.75 in) |
| 07/14/24 18:09 CST | | | 0 | Source: Law Enforcement |

BOTTINEAU COUNTY --- 0.7 S WESTHOPE [48.91, -101.02]

| | | | | |
|--------------------|--|--|-------|-------------------------|
| 07/14/24 18:11 CST | | | 0.40M | Hail (1.75 in) |
| 07/14/24 18:14 CST | | | 0 | Source: Broadcast Media |

Hail damaged roofs, siding, and windows on houses along with car windshields in the community of Westhope.

BOTTINEAU COUNTY --- 4.2 W GARDENA [48.69, -100.57]

| | | | | |
|--------------------|--|--|---|----------------|
| 07/14/24 18:49 CST | | | 0 | Hail (1.00 in) |
| 07/14/24 18:52 CST | | | 0 | Source: Public |

BOTTINEAU COUNTY --- 4.6 W WILLOW CITY [48.61, -100.38]

| | | | | |
|--------------------|--|--|---|----------------|
| 07/14/24 19:20 CST | | | 0 | Hail (1.25 in) |
| 07/14/24 19:23 CST | | | 0 | Source: Public |

WILLIAMS COUNTY --- 6.1 SE WHEELLOCK [48.23, -103.17]

| | | | | |
|--------------------|--|--|---|-------------------------|
| 07/14/24 19:52 CST | | | 0 | Hail (1.50 in) |
| 07/14/24 19:55 CST | | | 0 | Source: Trained Spotter |

BOTTINEAU COUNTY --- 0.5 E NEWBURG [48.72, -100.91]

| | | | | |
|--------------------|--|--|---|-------------------------|
| 07/14/24 20:00 CST | | | 0 | Hail (2.00 in) |
| 07/14/24 20:03 CST | | | 0 | Source: Broadcast Media |

BOTTINEAU COUNTY --- 0.5 E NEWBURG [48.72, -100.91]

| | | | | |
|--------------------|--|--|---|-------------------------|
| 07/14/24 20:10 CST | | | 0 | Hail (1.25 in) |
| 07/14/24 20:13 CST | | | 0 | Source: Trained Spotter |

MCHENRY COUNTY --- 6.6 NNE TOWNER [48.44, -100.35]

| | | | | |
|--------------------|--|--|---|----------------|
| 07/14/24 20:16 CST | | | 0 | Hail (2.75 in) |
| 07/14/24 20:19 CST | | | 0 | Source: Public |

MCHENRY COUNTY --- 1.4 W DENBIGH [48.32, -100.61]

| | | | | |
|--------------------|--|--|---|----------------|
| 07/14/24 20:20 CST | | | 0 | Hail (2.50 in) |
| 07/14/24 20:22 CST | | | 0 | Source: Public |

MCHENRY COUNTY --- 3.5 SW DENBIGH [48.29, -100.64]

| | | | | |
|--------------------|--|--|---|----------------|
| 07/14/24 20:27 CST | | | 0 | Hail (1.75 in) |
| 07/14/24 20:30 CST | | | 0 | Source: Public |

PIERCE COUNTY --- 6.8 WSW RUGBY [48.34, -100.12]

| | | | | |
|--------------------|--|--|---|-------------------------|
| 07/14/24 20:50 CST | | | 0 | Hail (0.75 in) |
| 07/14/24 20:53 CST | | | 0 | Source: Trained Spotter |

MOUNTRAIL COUNTY --- 3.3 NW NEW TOWN ARPT [48.04, -102.52]

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| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--|--------------------|----------------------|------------------------|------------------------------|
| | 07/14/24 20:55 CST | | 0 | Hail (2.00 in) |
| | 07/14/24 20:58 CST | | 0 | Source: Public |
| <hr/> | | | | |
| WARD COUNTY --- 0.7 N KENMARE [48.68, -102.08] | | | | |
| | 07/14/24 20:55 CST | | 0 | Hail (1.00 in) |
| | 07/14/24 20:57 CST | | 0 | Source: Public |
| <hr/> | | | | |
| MCHENRY COUNTY --- 3.1 SW DENBIGH [48.29, -100.63] | | | | |
| | 07/14/24 21:05 CST | | 0 | Hail (1.75 in) |
| | 07/14/24 21:10 CST | | 0 | Source: Public |
| <hr/> | | | | |
| MCHENRY COUNTY --- 1.4 W DENBIGH [48.32, -100.61] | | | | |
| | 07/14/24 21:09 CST | | 0 | Hail (1.00 in) |
| | 07/14/24 21:12 CST | | 0 | Source: Public |
| <hr/> | | | | |
| MOUNTRAIL COUNTY --- 0.7 S BLAISDELL [48.32, -102.07] | | | | |
| | 07/14/24 21:15 CST | | 0 | Thunderstorm Wind (EG 56 kt) |
| | 07/14/24 21:18 CST | | 0 | Source: Public |
| <hr/> | | | | |
| The public reported thunderstorm wind gusts of 65 mph. | | | | |
| <hr/> | | | | |
| PIERCE COUNTY --- 1.7 NNE ORRIN [48.10, -100.15] | | | | |
| | 07/14/24 21:15 CST | | 0 | Hail (1.00 in) |
| | 07/14/24 21:18 CST | | 0 | Source: Public |
| <hr/> | | | | |
| PIERCE COUNTY --- 2.1 NNE ORRIN [48.11, -100.16] | | | | |
| | 07/14/24 21:15 CST | | 0 | Hail (1.75 in) |
| | 07/14/24 21:18 CST | | 0 | Source: Public |
| <hr/> | | | | |
| MCLEAN COUNTY --- 6.9 S ROSEGLEN [47.65, -101.84] | | | | |
| | 07/14/24 21:25 CST | | 0 | Hail (1.75 in) |
| | 07/14/24 21:28 CST | | 0 | Source: Public |
| <hr/> | | | | |
| MCLEAN COUNTY --- 6.9 S ROSEGLEN [47.65, -101.84] | | | | |
| | 07/14/24 21:25 CST | | 0.15M | Thunderstorm Wind (EG 52 kt) |
| | 07/14/24 21:28 CST | | 0.25M | Source: Public |
| <hr/> | | | | |
| The strong thunderstorm wind gusts combined with golf ball size hail to cause property and crop damage in the White Shield area. | | | | |
| <hr/> | | | | |
| MCHENRY COUNTY --- 2.7 ESE BALFOUR [47.93, -100.48] | | | | |
| | 07/14/24 21:35 CST | | 0 | Thunderstorm Wind (MG 53 kt) |
| | 07/14/24 21:38 CST | | 0 | Source: Mesonet |
| <hr/> | | | | |
| RENVILLE COUNTY --- 0.8 SSW MOHALL [48.76, -101.51] | | | | |
| | 07/14/24 21:35 CST | | 0 | Hail (1.00 in) |
| | 07/14/24 21:38 CST | | 0 | Source: Public |
| <hr/> | | | | |
| MCHENRY COUNTY --- 0.5 E GUTHRIE [48.00, -100.37] | | | | |
| | 07/14/24 21:50 CST | | 0 | Hail (1.00 in) |
| | 07/14/24 21:53 CST | | 0 | Source: Public |
| <hr/> | | | | |
| MOUNTRAIL COUNTY --- 3.3 NW NEW TOWN ARPT [48.04, -102.52] | | | | |
| | 07/14/24 21:50 CST | | 0 | Thunderstorm Wind (EG 52 kt) |
| | 07/14/24 21:53 CST | | 0 | Source: Public |
| <hr/> | | | | |
| The public estimated thunderstorm wind gusts of 60 mph. | | | | |
| <hr/> | | | | |
| PIERCE COUNTY --- 10.7 NNE SELZ [48.00, -99.82] | | | | |

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|--|--------------------|-------------------|---------------------|------------------------------|
| | 07/14/24 21:54 CST | | 0 | Thunderstorm Wind (MG 63 kt) |
| | 07/14/24 21:56 CST | | 0 | Source: Public |
| <hr/> | | | | |
| MCHENRY COUNTY --- 1.7 SE NORFOLK [47.95, -100.28] | | | | |
| | 07/14/24 22:00 CST | | 0 | Thunderstorm Wind (EG 70 kt) |
| | 07/14/24 22:07 CST | | 0 | Source: Public |
| <p>Ping pong ball size hail combined with 80 mph wind gusts to cause extensive crop and home damage in the area. The house at this location lost some windows, along with suffering extensive damage to roof and siding. Vehicles were also damaged. Damage estimate is contained in the hail report for this location.</p> | | | | |
| <hr/> | | | | |
| MCHENRY COUNTY --- 1.7 SE NORFOLK [47.95, -100.28] | | | | |
| | 07/14/24 22:00 CST | | 0.15M | Hail (1.50 in) |
| | 07/14/24 22:07 CST | | 0.25M | Source: Public |
| <p>Ping pong ball size hail combined with 80 mph wind gusts to cause extensive crop and home damage in the area. The house at this location lost some windows, along with suffering extensive damage to the roof and siding. Vehicles were also damaged.</p> | | | | |
| <hr/> | | | | |
| WARD COUNTY --- 2.5 SSW MINOT [48.20, -101.31] | | | | |
| | 07/14/24 22:12 CST | | 0 | Hail (1.00 in) |
| | 07/14/24 22:15 CST | | 0 | Source: Public |
| <hr/> | | | | |
| MOUNTRAIL COUNTY --- 7.4 W PARSHALL ARPT [47.92, -102.29] | | | | |
| | 07/14/24 22:15 CST | | 0 | Hail (1.00 in) |
| | 07/14/24 22:18 CST | | 0 | Source: Public |
| <hr/> | | | | |
| MERCER COUNTY --- STANTON [47.32, -101.38] | | | | |
| | 07/14/24 22:17 CST | | 0 | Hail (1.50 in) |
| | 07/14/24 22:20 CST | | 0 | Source: Public |
| <hr/> | | | | |
| MERCER COUNTY --- STANTON [47.32, -101.38] | | | | |
| | 07/14/24 22:33 CST | | 0 | Hail (1.00 in) |
| | 07/14/24 22:36 CST | | 0 | Source: Trained Spotter |
| <hr/> | | | | |
| KIDDER COUNTY --- PETTIBONE [47.12, -99.52] | | | | |
| | 07/15/24 01:19 CST | | 0 | Hail (1.00 in) |
| | 07/15/24 01:21 CST | | 0 | Source: Public |
| <hr/> | | | | |
| STUTSMAN COUNTY --- 0.7 N MEDINA [46.89, -99.30] | | | | |
| | 07/15/24 01:40 CST | | 0 | Hail (1.50 in) |
| | 07/15/24 01:43 CST | | 0 | Source: Public |
| <hr/> | | | | |
| STUTSMAN COUNTY --- 4.6 SSE CLEVELAND [46.82, -99.08] | | | | |
| | 07/15/24 02:00 CST | | 0.20M | Hail (3.50 in) |
| | 07/15/24 02:07 CST | | 0.30M | Source: Public |
| <p>Wind-driven very large hail caused extensive damage. On two houses, multiple windows were taken out with the siding completely destroyed. All vehicles were dented. In addition, crops throughout the area were destroyed.</p> <p>A round of upper level short wave troughs passed from eastern Montana and Saskatchewan into North Dakota during the late afternoon and early evening hours. This led to thunderstorm development in an environment of strong deep layer shear and elevated instability, with multiple supercells occurring. These storms produced very large hail and damaging wind gusts as the storms spread to the southeast. Two storms produced significant damage. The first one produced wind gusts of 80 mph to the northeast of Drake, McHenry County, which combined with ping pong ball size hail to cause extensive damage to crops and property. The second occurred to the south-southeast of Cleveland in which 3.5 inch diameter hail combined with high winds to severely damage two houses and crops in the area.</p> | | | | |
| <hr/> | | | | |
| BURLEIGH COUNTY --- 2.8 NW BISMARCK [46.83, -100.81] | | | | |
| | 07/19/24 05:43 CST | | 0 | Hail (0.75 in) |
| | 07/19/24 05:45 CST | | 0 | Source: Public |

Storm Data and Unusual Weather Phenomena - July 2024

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

A thunderstorm passing through Bismarck during the early morning hours produced penny size hail.

FOSTER COUNTY --- CARRINGTON [47.45, -99.13]

| | | | | |
|--|--------------------|--|---|-------------------------|
| | 07/22/24 19:15 CST | | 0 | Hail (0.88 in) |
| | 07/22/24 19:18 CST | | 0 | Source: Trained Spotter |

FOSTER COUNTY --- 1.5 NNW CARRINGTON [47.47, -99.14]

| | | | | |
|--|--------------------|--|---|------------------------------|
| | 07/22/24 19:20 CST | | 0 | Thunderstorm Wind (EG 52 kt) |
| | 07/22/24 19:23 CST | | 0 | Source: Trained Spotter |

Thunderstorm wind gusts were estimated by a trained spotter.

Thunderstorms developed over the Devils Lake Basin along a southerly moving surface boundary. Eventually the storms moved into the northern James River Valley, producing estimated 60 mph wind gusts near Carrington, in Foster County, along with nickel size hail.

GRANT COUNTY --- 9.9 N LARK [46.59, -101.36]

| | | | | |
|--|--------------------|--|----|------------------------------|
| | 07/27/24 18:15 MST | | 5K | Thunderstorm Wind (EG 61 kt) |
| | 07/27/24 18:20 MST | | 0 | Source: Trained Spotter |

The wind tore some shingles off of the roof, and a cottonwood tree had some branches broken off and leaves stripped.

GRANT COUNTY --- 1.4 E LARK [46.45, -101.37]

| | | | | |
|--|--------------------|--|---|------------------------------|
| | 07/27/24 19:06 MST | | 0 | Thunderstorm Wind (MG 62 kt) |
| | 07/27/24 19:08 MST | | 0 | Source: Mesonet |

MORTON COUNTY --- 2.8 NW MANDAN [46.86, -100.94]

| | | | | |
|--|--------------------|--|---|----------------|
| | 07/27/24 20:10 CST | | 0 | Hail (1.00 in) |
| | 07/27/24 20:13 CST | | 0 | Source: Public |

MORTON COUNTY --- 4.3 NW MANDAN [46.87, -100.97]

| | | | | |
|--|--------------------|--|---|----------------|
| | 07/27/24 20:10 CST | | 0 | Hail (1.25 in) |
| | 07/27/24 20:13 CST | | 0 | Source: Public |

Severe thunderstorm winds estimated at 70 mph combined with half-dollar size hail to cause minor damage to structures in the Roughrider Development area. In addition, multiple large branches were blown down. Financial damages are noted in the corresponding wind entry for this location.

MORTON COUNTY --- 4.3 NW MANDAN [46.87, -100.97]

| | | | | |
|--|--------------------|--|-----|------------------------------|
| | 07/27/24 20:10 CST | | 40K | Thunderstorm Wind (EG 61 kt) |
| | 07/27/24 20:15 CST | | 0 | Source: Public |

Severe thunderstorm winds estimated at 70 mph combined with half-dollar size hail to cause damage to structures in the Roughrider Development area. In addition, multiple large branches were blown down.

BURLEIGH COUNTY --- 2.1 SSW BALDWIN [47.00, -100.78]

| | | | | |
|--|--------------------|--|---|-------------------------|
| | 07/27/24 20:28 CST | | 0 | Hail (1.00 in) |
| | 07/27/24 20:31 CST | | 0 | Source: Trained Spotter |

Thunderstorms developed along a surface boundary in an environment of elevated instability and marginal deep layer shear. Some of the storms became severe over Grant, Morton, and Burleigh Counties producing large hail and severe wind gusts. The largest hail, which was the size of a half-dollar, occurred on the west end of Mandan in Morton County. The strongest reported wind gusts, estimated at 70 mph, occurred to the north of Lark in Grant County, and on the west end of Mandan in Morton County.

GRANT COUNTY --- 18.8 S BRISBANE [46.08, -101.53]

| | | | | |
|--|--------------------|--|---|------------------------------|
| | 07/29/24 01:59 MST | | 0 | Thunderstorm Wind (EG 52 kt) |
| | 07/29/24 02:02 MST | | 0 | Source: Trained Spotter |

Thunderstorm wind gusts were estimated by a trained spotter.

SIOUX COUNTY --- 24.0 W SELFRIDGE [46.05, -101.43]

| | | | | |
|--|--------------------|--|---|------------------------------|
| | 07/29/24 02:13 MST | | 0 | Thunderstorm Wind (EG 52 kt) |
| | 07/29/24 02:16 MST | | 0 | Source: Trained Spotter |

Storm Data and Unusual Weather Phenomena - July 2024

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

Thunderstorm wind gusts were estimated by a trained spotter.

An isolated thunderstorm became severe as it passed through Grant and Sioux counties, producing estimated 60 mph wind gusts.

MCLEAN COUNTY --- 6.9 S RAUB [47.65, -102.04]

| | | |
|--------------------|-----|-------------------------|
| 07/29/24 15:55 CST | 0 | Hail (1.00 in) |
| 07/29/24 15:57 CST | 20K | Source: Trained Spotter |

The hail combined with strong thunderstorm winds to produce damage a corn field.

HETTINGER COUNTY --- 2.1 NNE BENTLEY [46.36, -102.06]

| | | |
|--------------------|---|------------------------------|
| 07/29/24 16:00 MST | 0 | Thunderstorm Wind (MG 56 kt) |
| 07/29/24 16:03 MST | 0 | Source: Mesonet |

MORTON COUNTY --- 9.3 NNW MANDAN [46.94, -101.01], 8.2 NNW MANDAN [46.94, -100.95]

| | | |
|--------------------|-------|----------------|
| 07/29/24 16:00 CST | 0.30M | Hail (3.00 in) |
| 07/29/24 16:15 CST | 50K | Source: Public |

An intense thunderstorm passed over the Harmon Lake area, including the campgrounds on the north side, and produced hail as large as three inches in diameter. Many campers and structures sustained significant damage.

BURLEIGH COUNTY --- 8.8 SW BALDWIN [46.93, -100.89], 7.1 NNE BISMARCK [46.90, -100.73]

| | | |
|--------------------|-------|----------------------|
| 07/29/24 16:35 CST | 2M | Hail (2.50 in) |
| 07/29/24 17:00 CST | 0.13M | Source: NWS Employee |

The severe thunderstorm that passed over the Harmon Lake area in Morton County moved into Burleigh County, and produced a swath of ping pong ball to tennis ball size hail as it passed to the north of the city of Bismarck. This storm caused extensive damage to roofs and vehicles.

MORTON COUNTY --- 1.7 SE MANDAN [46.81, -100.88]

| | | |
|--------------------|---|-------------------------|
| 07/29/24 16:46 CST | 0 | Hail (1.00 in) |
| 07/29/24 16:55 CST | 0 | Source: Trained Spotter |

BURLEIGH COUNTY --- 2.5 WSW BISMARCK [46.78, -100.82], 5.7 S FT LINCOLN [46.74, -100.58]

| | | |
|--------------------|-------|----------------------|
| 07/29/24 16:55 CST | 10M | Hail (4.50 in) |
| 07/29/24 17:40 CST | 0.25M | Source: NWS Employee |

A slow moving thunderstorm developed to the south of Mandan and rapidly strengthened as it moved into Burleigh County . The storm then gradually moved to the east-southeast passing over Lincoln. This storm caused extensive damage to developments to the south of Bismarck and throughout the Lincoln area. Most locations initially experienced hail ranging from one to two inches in diameter, but as the storm approached Lincoln hail increased to baseball size. In addition, one mile to the south of Lincoln a hailstone was measured at 4.5 inches in diameter.

BURLEIGH COUNTY --- 2.5 NW BISMARCK [46.83, -100.80]

| | | |
|--------------------|---|-------------------------|
| 07/29/24 17:48 CST | 0 | Hail (1.00 in) |
| 07/29/24 17:52 CST | 0 | Source: Trained Spotter |

This hail report was from the third storm to pass over the Bismarck area.

SIOUX COUNTY --- 1.5 NNE SELFRIDGE [46.05, -100.92]

| | | |
|--------------------|---|------------------------------|
| 07/29/24 17:55 MST | 0 | Thunderstorm Wind (EG 52 kt) |
| 07/29/24 17:58 MST | 0 | Source: Public |

Thunderstorm wind gusts were estimated by the public.

LA MOURE COUNTY --- 9.6 SSW JUD [46.39, -98.95]

| | | |
|--------------------|---|----------------|
| 07/29/24 17:56 CST | 0 | Hail (2.00 in) |
| 07/29/24 18:00 CST | 0 | Source: Public |

BURLEIGH COUNTY --- 5.0 SSW MC KENZIE [46.75, -100.43]

| | | |
|--------------------|---|----------------|
| 07/29/24 18:07 CST | 0 | Hail (2.75 in) |
| 07/29/24 18:12 CST | 0 | Source: Public |

Storm Data and Unusual Weather Phenomena - July 2024

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--|--------------------|-------------------|---------------------|------------------------------|
| LA MOURE COUNTY --- 8.6 SW EDGELEY [46.30, -98.85] | | | | |
| | 07/29/24 18:30 CST | | 0 | Hail (2.75 in) |
| | 07/29/24 18:33 CST | | 0 | Source: Public |
| LA MOURE COUNTY --- 9.8 SW JUD [46.41, -99.01] | | | | |
| | 07/29/24 19:09 CST | | 0 | Hail (1.00 in) |
| | 07/29/24 19:13 CST | | 0 | Source: Trained Spotter |
| LA MOURE COUNTY --- 4.0 SW EDGELEY [46.33, -98.76] | | | | |
| | 07/29/24 19:16 CST | | 0 | Hail (1.75 in) |
| | 07/29/24 19:20 CST | | 50K | Source: Trained Spotter |
| Crops were damaged in the area. | | | | |
| EMMONS COUNTY --- 6.7 NE TEMVIK [46.43, -100.14] | | | | |
| | 07/29/24 19:49 CST | | 0 | Thunderstorm Wind (MG 56 kt) |
| | 07/29/24 19:53 CST | | 0 | Source: Public |
| EMMONS COUNTY --- 6.2 S KINTYRE [46.46, -99.96] | | | | |
| | 07/29/24 19:58 CST | | 0 | Thunderstorm Wind (MG 51 kt) |
| | 07/29/24 20:01 CST | | 0 | Source: Public |
| LOGAN COUNTY --- 1.0 WNW NAPOLEON [46.50, -99.79] | | | | |
| | 07/29/24 20:06 CST | | 0.20M | Thunderstorm Wind (EG 70 kt) |
| | 07/29/24 20:11 CST | | 0 | Source: Trained Spotter |
| Four campers were rolled over at McKenna Lake. | | | | |
| SHERIDAN COUNTY --- PICKARDVILLE [47.47, -100.58] | | | | |
| | 07/29/24 20:11 CST | | 0 | Hail (1.00 in) |
| | 07/29/24 20:14 CST | | 0 | Source: Law Enforcement |
| MCINTOSH COUNTY --- 16.3 ENE ASHLEY [46.14, -99.07] | | | | |
| | 07/29/24 20:55 CST | | 0 | Thunderstorm Wind (MG 57 kt) |
| | 07/29/24 20:59 CST | | 0 | Source: Mesonet |
| DICKEY COUNTY --- 2.8 N OAKES [46.17, -98.08] | | | | |
| | 07/29/24 21:55 CST | | 0 | Thunderstorm Wind (MG 50 kt) |
| | 07/29/24 21:58 CST | | 0 | Source: AWOS |

Thunderstorms initially formed in the late afternoon in the vicinity of a surface boundary over southwest North Dakota, with additional storms then forming through the late afternoon into the evening in an environment of elevated instability and deep layer shear. Many storms became supercells, producing very large hail. Over the Bismarck-Mandan area, three separate storms produced large hail. The first storm passed through the Harmon Lake area before crossing the Missouri River and passing through the north side of Bismarck, causing extensive damage with hail up to 3 inches in diameter. As that storm moved along, a second storm formed to the south of Mandan and quickly intensified as it crossed the Missouri River and passed over developments to the south of Bismarck and over the Lincoln area. Many locations experienced two inch diameter hail with this storm, which increased to baseball size over Lincoln. One mile south of Lincoln, a hailstone was measured at 4.5 inches. These two storms caused extensive damage to structures and vehicles, resulting in millions of dollars in damage. A third severe storm then formed over Bismarck, but this storm was weaker, producing one-inch diameter hail. Additional thunderstorms then continued over central North Dakota with the main threat shifting towards strong winds late in the event. The strongest wind gust was estimated at 75 mph at McKenna Lake, near Napoleon, Logan County, where four campers were blown over.

| | | | | |
|--|--------------------|--|-----|------------------------------|
| MERCER COUNTY --- 0.8 SE HAZEN [47.29, -101.62] | | | | |
| | 07/30/24 17:15 CST | | 20K | Thunderstorm Wind (EG 65 kt) |
| | 07/30/24 17:19 CST | | 0 | Source: Emergency Manager |

Tree damage occurred in the city of Hazen.

Storm Data and Unusual Weather Phenomena - July 2024

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--|--------------------|----------------------|------------------------|------------------------------|
| WARD COUNTY --- 6.5 ENE MAKOTI [48.02, -101.68] | | | | |
| | 07/30/24 18:03 CST | 0 | | Hail (1.00 in) |
| | 07/30/24 18:06 CST | 0 | 50K | Source: Public |
| Hail was accompanied by strong wind gusts to cause crop damage in the area. | | | | |
| WARD COUNTY --- 0.8 NE SOUTH PRAIRIE [48.06, -101.29] | | | | |
| | 07/30/24 18:24 CST | 0 | | Thunderstorm Wind (EG 52 kt) |
| | 07/30/24 18:29 CST | 0 | | Source: Trained Spotter |
| Thunderstorm wind gusts were estimated by a trained spotter. | | | | |
| WARD COUNTY --- 2.5 SSW MINOT [48.20, -101.31] | | | | |
| | 07/30/24 18:27 CST | 0 | | Hail (1.00 in) |
| | 07/30/24 18:30 CST | 0 | | Source: Public |
| WARD COUNTY --- 5.1 WNW SAWYER [48.11, -101.15] | | | | |
| | 07/30/24 18:33 CST | 0 | | Thunderstorm Wind (EG 61 kt) |
| | 07/30/24 18:37 CST | 0 | | Source: Trained Spotter |
| Thunderstorm wind gusts were estimated by a trained spotter. | | | | |
| WARD COUNTY --- 1.1 SW MINOT [48.22, -101.30] | | | | |
| | 07/30/24 18:35 CST | 0 | | Hail (1.00 in) |
| | 07/30/24 18:38 CST | 0 | | Source: Amateur Radio |
| MCHEMRY COUNTY --- 2.1 NNE SIMCOE [48.20, -100.86] | | | | |
| | 07/30/24 18:54 CST | 0 | | Thunderstorm Wind (EG 52 kt) |
| | 07/30/24 18:57 CST | 0 | | Source: Public |
| Thunderstorm wind gusts were estimated by a trained spotter. | | | | |
| <p>Thunderstorms formed near and ahead of a weak surface low over western North Dakota along a weak warm front, with some storms becoming severe. The strongest wind gust estimated at 75 mph occurred at Hazen in Mercer County where tree damage was reported. The largest reported hail was one-inch in diameter, occurring around Minot and to the north of Rice Lake in Ward County.</p> | | | | |
| BURLEIGH COUNTY --- 2.8 NW BISMARCK [46.83, -100.81] | | | | |
| | 07/31/24 07:25 CST | 0 | | Hail (0.75 in) |
| | 07/31/24 07:28 CST | 0 | | Source: Public |
| BURLEIGH COUNTY --- 3.1 NNW BISMARCK [46.84, -100.80] | | | | |
| | 07/31/24 07:45 CST | 0 | | Hail (0.75 in) |
| | 07/31/24 07:49 CST | 0 | | Source: Public |
| Early morning thunderstorms passing through Bismarck produced penny size hail on the north side of the city. | | | | |