

Storm Data and Unusual Weather Phenomena - June 2023

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
NORTH DAKOTA, Central and West				
MORTON COUNTY --- 1.9 W GLEN ULLIN [46.82, -101.87]				
	06/02/23 14:55 CST	0		Thunderstorm Wind (MG 54 kt)
	06/02/23 14:57 CST	0		Source: AWOS
Scattered showers and thunderstorms developed during the afternoon hours over portions of western and central North Dakota. One storm became severe, producing wind gusts of 62 mph at the Glen Ullin Airport in Morton County.				
SLOPE COUNTY --- 1.5 NNE AMIDON [46.50, -103.31]				
	06/04/23 14:10 MST	0		Thunderstorm Wind (MG 54 kt)
	06/04/23 14:12 MST	0		Source: Mesonet
Scattered thunderstorms developed over western and central North Dakota during the afternoon and early evening hours. One storm became severe, producing wind gusts of 62 mph at the NDAWN site near Amidon in Slope County.				
BOTTINEAU COUNTY --- 8.0 SSW SOURIS [48.82, -100.76]				
	06/07/23 20:20 CST	0		Thunderstorm Wind (MG 56 kt)
	06/07/23 20:22 CST	0		Source: Mesonet
An isolated thunderstorm passing through Bottineau County produced wind gusts of 64 mph at the NDAWN weather station to the south-southeast of Roth.				
MCLEAN COUNTY --- 4.4 NNW EMMET [47.71, -101.68]				
	06/08/23 12:47 CST	0		Thunderstorm Wind (MG 52 kt)
	06/08/23 12:49 CST	0		Source: Mesonet
LOGAN COUNTY --- 6.7 NNW LEHR [46.37, -99.40]				
	06/08/23 16:47 CST	0		Hail (1.25 in)
	06/08/23 16:50 CST	0		Source: Trained Spotter
WARD COUNTY --- 5.0 SSE NIOBE [48.62, -102.16]				
	06/08/23 16:53 CST	0		Hail (1.00 in)
	06/08/23 16:55 CST	0		Source: Public
MCINTOSH COUNTY --- 19.9 NE ASHLEY [46.23, -99.07]				
	06/08/23 17:20 CST	0		Hail (1.50 in)
	06/08/23 17:23 CST	0		Source: Public
PIERCE COUNTY --- 6.9 W WOLFORD [48.51, -99.85]				
	06/08/23 17:47 CST	0		Hail (1.00 in)
	06/08/23 17:53 CST	0		Source: Trained Spotter
MOUNTRAIL COUNTY --- 5.6 S SANISH [47.90, -102.59]				
	06/08/23 19:41 CST	0		Hail (1.25 in)
	06/08/23 19:44 CST	0		Source: Trained Spotter
Thunderstorms formed during the afternoon and evening hours as a surface low passed through southwest and south central North Dakota. Some of these storms became severe with the primary impacts being from large hail, though severe wind gusts of 60 mph were reported on the initial severe storm in McLean County. The largest hail reported was the size of a ping pong ball, which fell in McIntosh County.				
GOLDEN VALLEY COUNTY --- 3.5 SE GOLVA [46.70, -103.92]				
	06/19/23 20:06 MST	0		Hail (1.00 in)
	06/19/23 20:08 MST	0		Source: Public
GOLDEN VALLEY COUNTY --- 0.7 N GOLVA [46.74, -103.98]				
	06/19/23 20:13 MST	0		Hail (0.75 in)
	06/19/23 20:16 MST	0		Source: Trained Spotter

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WILLIAMS COUNTY --- 3.5 N RAY [48.40, -103.17]				
	06/20/23 02:01 CST		0	Thunderstorm Wind (MG 63 kt)
	06/20/23 02:03 CST		0	Source: Mesonet
WILLIAMS COUNTY --- 0.7 S RAY [48.34, -103.17]				
	06/20/23 02:04 CST		0	Thunderstorm Wind (MG 67 kt)
	06/20/23 02:07 CST		0	Source: Public
<p>Thunderstorms initially formed over Montana in the vicinity of a surface low that gradually lifted northward near the North Dakota and Montana border. The first storms moved into southwest North Dakota, with one becoming severe producing one-inch diameter hail to the southeast of Golva in Golden Valley County. Late that night, additional thunderstorms developed over northwest North Dakota as a low level jet increased over the area. Another storm became severe, producing wind gusts of 77 mph near Ray in Williams County.</p>				
MORTON COUNTY --- 4.0 W HUFF [46.62, -100.73]				
	06/20/23 17:15 CST		1K	Thunderstorm Wind (MG 50 kt)
	06/20/23 17:17 CST		0	Source: Mesonet
WELLS COUNTY --- 1.0 NE HARVEY [47.78, -99.88]				
	06/20/23 17:15 CST		0	Hail (1.00 in)
	06/20/23 17:18 CST		0	Source: Public
WELLS COUNTY --- 3.0 NE HARVEY [47.80, -99.85]				
	06/20/23 17:30 CST		0	Hail (1.00 in)
	06/20/23 17:33 CST		0	Source: Public
MORTON COUNTY --- 4.0 S MANDAN [46.77, -100.90]				
	06/20/23 18:03 CST		1K	Thunderstorm Wind (MG 59 kt)
	06/20/23 18:06 CST		0	Source: Mesonet
MCLEAN COUNTY --- 2.0 W WILTON [47.17, -100.84]				
	06/20/23 18:08 CST		0	Hail (1.00 in)
	06/20/23 18:11 CST		0	Source: Public
PIERCE COUNTY --- 2.0 E SELZ [47.85, -99.84]				
	06/20/23 18:10 CST		0	Hail (1.25 in)
	06/20/23 18:13 CST		0	Source: Public
MORTON COUNTY --- 4.0 NW MANDAN [46.87, -100.96]				
	06/20/23 18:15 CST		1K	Thunderstorm Wind (EG 65 kt)
	06/20/23 18:19 CST		0	Source: Public
<p>A tree that was approximately ten inches in diameter split.</p>				
MCLEAN COUNTY --- WASHBURN [47.28, -101.02]				
	06/20/23 18:58 CST		0	Hail (1.00 in)
	06/20/23 19:01 CST		0	Source: Public
BOTTINEAU COUNTY --- 8.9 N BOTTINEAU ARPT [48.96, -100.40]				
	06/20/23 19:15 CST		0	Hail (1.75 in)
	06/20/23 19:18 CST		0	Source: Public
MCHENRY COUNTY --- 7.0 NNE ANAMOOSE [47.97, -100.17]				
	06/20/23 19:23 CST		3K	Thunderstorm Wind (EG 61 kt)
	06/20/23 19:26 CST		0	Source: Public
<p>Multiple tree branches were downed.</p>				
PIERCE COUNTY --- 5.8 N BALTA [48.25, -100.04]				

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	06/20/23 19:23 CST		0.35M	Thunderstorm Wind (MG 96 kt)
	06/20/23 19:31 CST		0	Source: Public
Five empty anchored down hopper style grain bins were blown over, a trailer rolled through the yard, a gazebo was destroyed, a pool fence was blown down, and tall cottonwood trees were snapped. The farm had an anemometer on site that recorded the strongest wind gust. About one-quarter mile to the west, other trees were uprooted.				
MCHENRY COUNTY --- 7.0 NNE TOWNER [48.44, -100.34]				
	06/20/23 19:30 CST		5K	Thunderstorm Wind (EG 87 kt)
	06/20/23 19:35 CST		0	Source: Public
Numerous trees were damage. Cottonwoods 12 to 18 inches in diameter were snapped, and poplar tree branches of six to ten inches were also snapped.				
PIERCE COUNTY --- 3.5 NNE ORRIN [48.12, -100.13]				
	06/20/23 19:30 CST		4K	Thunderstorm Wind (EG 70 kt)
	06/20/23 19:35 CST		0	Source: Public
Evergreen trees near the home were sheared off at roof level.				
PIERCE COUNTY --- 9.9 WNW BALTA [48.24, -100.22]				
	06/20/23 19:34 CST		3K	Thunderstorm Wind (MG 56 kt)
	06/20/23 19:37 CST		0	Source: Public
BOTTINEAU COUNTY --- KRAMER [48.70, -100.70]				
	06/20/23 19:36 CST		0	Hail (1.75 in)
	06/20/23 19:39 CST		0	Source: Public
PIERCE COUNTY --- 3.0 WSW RUGBY [48.35, -100.04]				
	06/20/23 19:45 CST		0	Thunderstorm Wind (MG 56 kt)
	06/20/23 19:49 CST		0	Source: Mesonet
PIERCE COUNTY --- RUGBY [48.37, -99.98]				
	06/20/23 19:48 CST		15K	Thunderstorm Wind (EG 70 kt)
	06/20/23 19:52 CST		0	Source: Public
Multiple large tree branches were broken off, with a few broken trees.				
BOTTINEAU COUNTY --- 13.1 NE BOTTINEAU ARPT [48.96, -100.21]				
	06/20/23 19:55 CST		0	Hail (1.75 in)
	06/20/23 19:59 CST		0	Source: Public
BOTTINEAU COUNTY --- 4.0 E KRAMER [48.70, -100.61]				
	06/20/23 19:55 CST		0	Hail (1.25 in)
	06/20/23 19:58 CST		0	Source: Public
BOTTINEAU COUNTY --- 4.0 E KRAMER [48.70, -100.61]				
	06/20/23 19:55 CST		0	Thunderstorm Wind (EG 52 kt)
	06/20/23 19:59 CST		0	Source: Public
The public estimated wind gusts of 60 mph.				
ROLETTE COUNTY --- 1.0 SE DUNSEITH [48.81, -100.03]				
	06/20/23 20:19 CST		0	Thunderstorm Wind (MG 50 kt)
	06/20/23 20:22 CST		0	Source: Mesonet
ROLETTE COUNTY --- DUNSEITH [48.82, -100.05]				
	06/20/23 20:19 CST		0.60M	Thunderstorm Wind (EG 78 kt)
	06/20/23 20:25 CST		0	Source: Emergency Manager

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<p>Many large tree branches were down, with several trees uprooted. There was some damage to roofs, and power poles and lines were down. In one case, a tree fell onto a power line then onto a house, causing the house to start on fire. In another case a teenager, whose age is unknown, was injured (indirect) as he was burned while cleaning up tree damage and unknowingly came in contact with a live downed electrical wire. The teen was hospitalized.</p>				

ROLETTE COUNTY --- 3.0 SW BELCOURT [48.80, -99.78]

06/20/23 20:25 CST	50K	Thunderstorm Wind (EG 61 kt)
06/20/23 20:30 CST	0	Source: Public

Part of a porch was torn from a home, and several teepees were blown away. This event was a gustnado based on the wind being ahead of the thunderstorm, likely along the gust front, and video showing the feature was not connected to the cloud base. Per NWS directives, gustnadoes are recorded as thunderstorm wind events, not as tornadoes, in StormData.

A surface boundary set up over central North Dakota, as a weak shortwave trough approached the region. Very strong instability developed through central North Dakota, with elevated deep-layer shear. Initial severe storms produced large hail, with a mix of large hail and damaging wind gusts as time went on. Some of the winds became very damaging over north-central North Dakota. Near Balta, a farm sustained heavy property and tree damage with a measured wind gust of 110 mph, with other farms in the area suffering mainly tree damage. Tree damage also was reported in Rugby. Further north, in Rolette County, the city of Dunseith was severely affected with many trees snapped or uprooted, along with downed power lines. One individual was injured (indirect) when he was burned while cleaning up tree branches and came in contact with a live downed electrical wire. Near the City of Rolette, a porch and multiple teepees were damaged. This damage was attributed to a gustnado, which formed out ahead of the thunderstorm. Video evidence showed there was no connection from the ground circulation to the cloud base, and based on that, it was determined that this was a gustnado and not a tornado. NWS policy directives dictate that a gustnado is classified as a "Thunderstorm Wind" event in StormData.

SIoux COUNTY --- 19.9 W SELFRIDGE [45.99, -101.34]

06/21/23 19:15 MST	0	Thunderstorm Wind (EG 61 kt)
06/21/23 19:18 MST	0	Source: Public

The public estimated thunderstorm wind gusts of 70 mph.

SIoux COUNTY --- 31.0 W SELFRIDGE [45.97, -101.57]

06/21/23 19:15 MST	0	Thunderstorm Wind (EG 61 kt)
06/21/23 19:18 MST	0	Source: Public

The public estimated thunderstorm wind gusts of 70 mph.

SIoux COUNTY --- 3.7 SSW SELFRIDGE [45.98, -100.96]

06/21/23 19:55 MST	25K	Thunderstorm Wind (EG 65 kt)
06/21/23 20:00 MST	0	Source: NWS Storm Survey

A roof of an outbuilding on the farm was damaged. An unattached horse trailer was pushed through a field.

SIoux COUNTY --- 4.9 S SELFRIDGE [45.96, -100.94]

06/21/23 20:00 MST	2K	Thunderstorm Wind (EG 61 kt)
06/21/23 20:05 MST	0	Source: NWS Storm Survey

Large tree branches were broken.

SIoux COUNTY --- 6.4 ESE SELFRIDGE [46.01, -100.80]

06/21/23 20:18 MST	0.25M	Thunderstorm Wind (EG 109 kt)
06/21/23 20:24 MST	1	0 Source: NWS Storm Survey

Damage survey revealed that a microburst struck this property and completely destroyed a manufactured home which rolled onto a vehicle crushing the roof and partially damaging another vehicle. Parts of the home were blown into a barn, severely damaging it. The debris pattern was divergent in nature, and orientated toward the east/southeast. Two people were in the home at the time. One was injured (direct) and hospitalized.

STARK COUNTY --- 8.0 S BELFIELD [46.76, -103.20]

06/21/23 22:01 MST	80K	Thunderstorm Wind (EG 74 kt)
06/21/23 22:11 MST	0	Source: Utility Company

Thirty power poles were down along Highway 85.

STARK COUNTY --- (DIK)DICKINSON MUNI [46.80, -102.80]

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	06/21/23 22:29 MST		0	Thunderstorm Wind (MG 56 kt)
	06/21/23 22:34 MST		0	Source: ASOS
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STARK COUNTY --- GLADSTONE [46.87, -102.55]				
	06/21/23 22:48 MST		60K	Thunderstorm Wind (EG 70 kt)
	06/21/23 22:52 MST		0	Source: Broadcast Media
RV campers were overturned in Gladstone.				
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STARK COUNTY --- 0.9 WNW GLADSTONE [46.88, -102.57]				
	06/21/23 22:50 MST		0	Thunderstorm Wind (MG 73 kt)
	06/21/23 22:54 MST		0	Source: Mesonet
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STARK COUNTY --- 3.0 N RICHARDTON [46.92, -102.32]				
	06/21/23 23:05 MST		40K	Thunderstorm Wind (EG 74 kt)
	06/21/23 23:10 MST		0	Source: Emergency Manager
Fifteen power poles were broken, all pushed towards the east.				
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MCLEAN COUNTY --- 3.0 NNW TURTLE LAKE [47.56, -100.92]				
	06/22/23 01:27 CST		0	Thunderstorm Wind (MG 57 kt)
	06/22/23 01:31 CST		0	Source: Mesonet
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BURLEIGH COUNTY --- 6.0 SSE BALDWIN [46.95, -100.72]				
	06/22/23 03:00 CST		0	Thunderstorm Wind (MG 50 kt)
	06/22/23 03:03 CST		0	Source: Public
Thunderstorms developed as a cold front and upper level short wave trough moved into the area. The first severe thunderstorm moved through Sioux County along an instability gradient, producing multiple severe wind reports. Extensive damage occurred to one property where a manufactured home home was completely destroyed by estimated winds of 125 mph from a microburst. The home eventually rolled over and damaged two vehicles, while additional parts of the home were blown into a barn, severely damaging it. Two people were in the home at the time. One was injured (direct) and hospitalized. The next severe thunderstorm moved through Stark County, producing a path of damage with winds to 85 mph. Several power poles were leaned over or broken, and some campers were severely damaged. Additional severe thunderstorms producing strong wind gusts then occurred over south central North Dakota overnight.				
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FOSTER COUNTY --- 1.9 W MC HENRY [47.58, -98.64]				
	06/27/23 18:50 CST		0	Hail (0.75 in)
	06/27/23 18:52 CST		0	Source: COOP Observer
Thunderstorms developed over the area, with one storm producing penny size hail in Foster County.				
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ROLETTE COUNTY --- 0.8 NNW ROLLA [48.86, -99.61]				
	06/28/23 13:15 CST		0	Funnel Cloud
	06/28/23 13:45 CST		0	Source: Emergency Manager
Multiple funnel clouds occurred over the Rolla area. At one point, three funnel clouds were noted occurring simultaneously.				
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ROLETTE COUNTY --- 0.8 NNW BELCOURT [48.84, -99.74]				
	06/28/23 16:26 CST		0	Hail (0.75 in)
	06/28/23 16:30 CST		0	Source: Public
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ROLETTE COUNTY --- 5.2 WSW BELCOURT [48.81, -99.84]				
	06/28/23 16:45 CST		0	Thunderstorm Wind (MG 51 kt)
	06/28/23 16:49 CST		0	Source: Mesonet
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FOSTER COUNTY --- 0.5 E MC HENRY [47.58, -98.59]				
	06/28/23 20:07 CST		0	Hail (0.88 in)
	06/28/23 20:12 CST		0	Source: Broadcast Media

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Thunderstorms developed in the vicinity of a surface trough that dropped through the area from a low over Manitoba. Initially, multiple funnel clouds were observed in the Rolla area of Rolette County, where at one point three funnels were observed simultaneously. Later, penny sized hail occurred near Rolette, along with a 58 mph wind gust. During the evening hours, nickel sized hail fell in Foster County.

MCKENZIE COUNTY --- 3.3 ESE JOHNSONS CORNER [47.79, -102.86]

06/30/23 16:29 MST	0	Hail (0.88 in)
06/30/23 16:31 MST	0	Source: Trained Spotter

Thunderstorms developed over the area, with one storm producing nickel size hail in McKenzie County.