

Storm Data and Unusual Weather Phenomena - September 2023

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
NORTH DAKOTA, Central and West				
ADAMS COUNTY --- 17.0 ENE HAYNES [46.09, -102.16]				
	09/04/23 16:55 MST		0	Thunderstorm Wind (EG 61 kt)
	09/04/23 16:58 MST		0	Source: Trained Spotter
Thunderstorm wind gusts were estimated by a trained spotter.				
GRANT COUNTY --- 2.1 S HEIL [46.35, -101.70]				
	09/04/23 17:34 MST		0	Thunderstorm Wind (MG 52 kt)
	09/04/23 17:37 MST		0	Source: Public
MORTON COUNTY --- 2.8 N HEBRON [46.94, -102.02]				
	09/04/23 17:40 CST		0	Thunderstorm Wind (EG 56 kt)
	09/04/23 17:43 CST		0	Source: Trained Spotter
Thunderstorm wind gusts were estimated by a trained spotter.				
SIOUX COUNTY --- 9.1 N SELFRIDGE [46.16, -100.90]				
	09/04/23 17:50 MST		0	Thunderstorm Wind (MG 76 kt)
	09/04/23 17:53 MST		0	Source: Mesonet
GRANT COUNTY --- 0.5 E CARSON [46.42, -101.56]				
	09/04/23 18:00 MST		1K	Thunderstorm Wind (EG 65 kt)
	09/04/23 18:05 MST		0	Source: Public
A power line was blown down.				
GRANT COUNTY --- 1.4 E LARK [46.45, -101.37]				
	09/04/23 18:00 MST		0	Thunderstorm Wind (MG 53 kt)
	09/04/23 18:05 MST		0	Source: Mesonet
MORTON COUNTY --- 7.0 NNW GLEN ULLIN [46.92, -101.86]				
	09/04/23 18:00 CST		0	Hail (1.00 in)
	09/04/23 18:04 CST		0	Source: Public
MORTON COUNTY --- 7.0 NNW GLEN ULLIN [46.92, -101.86]				
	09/04/23 18:00 CST		0	Thunderstorm Wind (EG 61 kt)
	09/04/23 18:04 CST		0	Source: Public
Thunderstorm wind gusts were estimated by the public.				
MERCER COUNTY --- 15.9 S BEULAH [47.04, -101.80]				
	09/04/23 18:06 CST		0	Thunderstorm Wind (EG 56 kt)
	09/04/23 18:09 CST		0	Source: Trained Spotter
Wind gusts were estimated by a trained spotter.				
MORTON COUNTY --- 8.1 NNE GLEN ULLIN [46.93, -101.77]				
	09/04/23 18:17 CST		0	Hail (1.00 in)
	09/04/23 18:19 CST		0	Source: Trained Spotter
MORTON COUNTY --- FLASHER [46.45, -101.23]				
	09/04/23 19:07 CST		0	Thunderstorm Wind (MG 51 kt)
	09/04/23 19:10 CST		0	Source: Public
BURLEIGH COUNTY --- 2.5 ESE (BIS)BISMARCK MUNI A [46.77, -100.70]				

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	09/04/23 19:28 CST		0	Thunderstorm Wind (MG 53 kt)
	09/04/23 19:31 CST		0	Source: Public
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OLIVER COUNTY --- 2.1 N SANGER [47.21, -101.00]				
	09/04/23 19:38 CST		5K	Thunderstorm Wind (EG 70 kt)
	09/04/23 19:42 CST		0	Source: Park/Forest Service
<p>Several trees blew down at Cross Ranch State Park, and many other branches were blown down. Upon inspection of the trees that blew down, some rot was noted.</p>				
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MCLEAN COUNTY --- 3.5 SE WASHBURN [47.25, -100.96]				
	09/04/23 19:40 CST		0	Hail (1.25 in)
	09/04/23 19:43 CST		0	Source: Trained Spotter
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MCLEAN COUNTY --- 3.9 SE WASHBURN [47.24, -100.96]				
	09/04/23 19:40 CST		0	Thunderstorm Wind (EG 61 kt)
	09/04/23 19:43 CST		0	Source: Trained Spotter
<p>Thunderstorm wind gusts were estimated by a trained spotter.</p>				
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KIDDER COUNTY --- 2.8 N STEELE MUNI ARPT [46.89, -99.99]				
	09/04/23 20:00 CST		0	Thunderstorm Wind (MG 52 kt)
	09/04/23 20:03 CST		0	Source: Mesonet
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BURLEIGH COUNTY --- 0.7 S (BIS)BISMARCK MUNI A [46.77, -100.75]				
	09/04/23 20:15 CST		0	Thunderstorm Wind (MG 56 kt)
	09/04/23 20:23 CST		0	Source: ASOS
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BURLEIGH COUNTY --- 0.8 NW BISMARCK [46.81, -100.78]				
	09/04/23 20:15 CST		60K	Thunderstorm Wind (EG 70 kt)
	09/04/23 20:25 CST		0	Source: Public
<p>Several tree branches, along with a few trees, were knocked down in and around the Bismarck area. Two vehicles were totaled as a tree fell on them at Skyway Park Village.</p>				
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KIDDER COUNTY --- 148.1 NE HAYNES [47.31, -100.04]				
	09/04/23 20:35 CST		0.30M	Thunderstorm Wind (EG 87 kt)
	09/04/23 20:42 CST		0	Source: Public
<p>A small Park Model mobile, which was on blocks and anchored down, was completely destroyed, with the undercarriage separating from the unit, though the deck remained in its spot with a grill still on it. A 55 gallon barrel of steel scrap was blown over and rolled. Multiple three foot diameter cottonwood trees were damaged, with some uprooted and a few older ones snapped. About one-quarter mile to the east of this location a grain bin was blown across a road, and a shop wall was blown out. Windbreak panels were toppled, with one tossed and flipped over. All damage was blown toward the north and east, the direction the storm was moving.</p>				
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KIDDER COUNTY --- 6.5 NNE LAKE WILLIAMS [47.22, -99.56]				
	09/04/23 20:40 CST		0	Thunderstorm Wind (EG 52 kt)
	09/04/23 20:45 CST		0	Source: Trained Spotter
<p>Thunderstorm wind gusts were estimated by a trained spotter.</p>				
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WELLS COUNTY --- 1.6 WSW CHASELEY [47.44, -99.83]				
	09/04/23 20:55 CST		1K	Thunderstorm Wind (EG 70 kt)
	09/04/23 21:00 CST		0	Source: Trained Spotter
<p>A large evergreen tree blew over.</p>				
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WELLS COUNTY --- 3.3 WSW SYKESTON [47.46, -99.45]				
	09/04/23 20:56 CST		0	Thunderstorm Wind (MG 51 kt)
	09/04/23 21:00 CST		0	Source: Public

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FOSTER COUNTY --- 3.8 W BARLOW [47.58, -99.23]				
	09/04/23 21:09 CST		0	Thunderstorm Wind (MG 54 kt)
	09/04/23 21:14 CST		0	Source: Public

An area of thunderstorms stretching from far southeast Montana towards southwest South Dakota developed ahead of an upper level trough, which moved to the northeast towards North Dakota. As the storms pushed into North Dakota, they encountered an atmosphere of elevated instability and strong deep layer shear. Strong and damaging wind gusts quickly became the key threat with these storms as they progressed to the northeast, though a few storms did produce large hail, with the largest hail being half-dollar size in McLean County. Multiple events of wind gusts over 70 mph occurred. The strongest wind gust estimated at 100 mph occurred in far northwest Kidder County, where neighboring farmsteads sustained heavy damage with a destroyed mobile home and grain bin, a severely damaged shop building, and multiple large trees either uprooted or snapped.

KIDDER COUNTY --- 4.9 S TAPPEN [46.80, -99.64]				
	09/23/23 15:22 CST		0	Funnel Cloud
	09/23/23 15:28 CST		0	Source: Trained Spotter

Three funnel clouds developed at the same time in very close proximity. Two funnels then diminished with one remaining for a little longer.

An upper level low lifted from South Dakota into south central North Dakota with rain showers and weak thunderstorms rotating around it. One shower produced three funnel clouds close together to the south of Tappen in Kidder County.

LOGAN COUNTY --- 5.0 SE GACKLE [46.57, -99.07]				
	09/24/23 13:46 CST		0	Funnel Cloud
	09/24/23 13:48 CST		0	Source: Public

An upper level low passed through southeast North Dakota, with some rain showers moving along the back side of the low. One shower produced a funnel cloud in Logan County, southeast of Gackle.