

Storm Data and Unusual Weather Phenomena - August 2020

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
NORTH DAKOTA, Central and West				
DIVIDE COUNTY --- 6.9 N NOONAN [48.98, -103.01]				
	08/04/20 17:51 CST		0	Hail (1.00 in)
	08/04/20 17:53 CST		0	Source: Trained Spotter
WILLIAMS COUNTY --- 2.0 NW MC GREGOR [48.62, -102.96]				
	08/04/20 17:55 CST		0	Funnel Cloud
	08/04/20 17:57 CST		0	Source: Public
MOUNTRAIL COUNTY --- 6.4 NW WHITE EARTH [48.45, -102.86], 2.5 WNW WHITE EARTH [48.39, -102.82]				
	08/04/20 18:38 CST		0	Tornado (EFU, L: 4.36 mi , W: 100 yd)
	08/04/20 18:53 CST		0	Source: Law Enforcement
This tornado touched down northwest of White Earth. The tornado produced no damage to evaluate and so by National Weather Service policy was rated EFU, EF Unknow.				
WILLIAMS COUNTY --- 0.5 W TIOGA [48.40, -102.94]				
	08/04/20 18:50 CST		0	Hail (1.00 in)
	08/04/20 18:53 CST		0	Source: Law Enforcement
MOUNTRAIL COUNTY --- WHITE EARTH [48.38, -102.77]				
	08/04/20 18:58 CST		0	Hail (1.00 in)
	08/04/20 19:01 CST		0	Source: Public
MOUNTRAIL COUNTY --- WHITE EARTH [48.38, -102.77]				
	08/04/20 19:00 CST		0	Hail (1.75 in)
	08/04/20 19:02 CST		0	Source: Public
SHERIDAN COUNTY --- 6.9 N PICKARDVILLE [47.57, -100.58]				
	08/04/20 22:35 CST		10K	Hail (1.00 in)
	08/04/20 22:37 CST		0	Source: Trained Spotter
Minor damage was noted to buildings.				
A strong short wave trough approaching the area combined with a surface trough to produce thunderstorms over western North Dakota. A couple of storms became severe over northwest North Dakota in an area of ample low level moisture and deep layer shear. The largest hail reported was the size of a golf ball, which occurred at White Earth in Mountrail County. In addition, a tornado developed in far western Mountrail County northwest of White Earth. No damage was reported from the tornado as it impacted no structures.				
MERCER COUNTY --- 2.1 S BEULAH [47.24, -101.78]				
	08/07/20 17:20 CST		0	Hail (1.25 in)
	08/07/20 17:23 CST		0	Source: Trained Spotter
MERCER COUNTY --- 0.7 S BEULAH [47.26, -101.78]				
	08/07/20 17:25 CST		0	Hail (1.50 in)
	08/07/20 17:27 CST		0	Source: Public
MORTON COUNTY --- 6.2 NNW SIMS [46.85, -101.56]				
	08/07/20 18:35 CST		10K	Hail (1.00 in)
	08/07/20 18:37 CST		0	Source: Public
Wind driven hail damaged wind breaks.				
MORTON COUNTY --- 4.9 WNW NEW SALEM [46.87, -101.52]				
	08/07/20 18:40 CST		0	Hail (0.88 in)
	08/07/20 18:43 CST		0	Source: Trained Spotter

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MORTON COUNTY --- 0.5 E NEW SALEM [46.85, -101.41]				
	08/07/20 18:45 CST		0	Hail (1.00 in)
	08/07/20 18:48 CST		0	Source: Public
GRANT COUNTY --- 0.5 E CARSON [46.42, -101.56]				
	08/07/20 18:50 MST		0	Hail (1.25 in)
	08/07/20 18:53 MST		0	Source: Law Enforcement
GRANT COUNTY --- 3.2 NE CARSON [46.45, -101.52]				
	08/07/20 19:05 MST		0	Hail (1.75 in)
	08/07/20 19:08 MST		0	Source: Public
MORTON COUNTY --- 10.4 N FLASHER [46.60, -101.23]				
	08/07/20 19:55 CST		0	Hail (1.00 in)
	08/07/20 19:57 CST		0	Source: Public
Thunderstorms formed along a surface boundary over southwest North Dakota and moved east into an area of elevated instability. Some of these storms became severe producing large hail. The largest hail was the size of a golf ball, and fell in Grant County.				
MCHENRY COUNTY --- 4.4 NE NORFOLK [48.02, -100.24]				
	08/09/20 04:56 CST		0	Hail (0.75 in)
	08/09/20 04:58 CST		0	Source: Public
PIERCE COUNTY --- 2.1 SSW ORRIN [48.05, -100.18]				
	08/09/20 05:00 CST		0	Hail (1.00 in)
	08/09/20 05:03 CST		0	Source: Public
Thunderstorms developed during the early morning hours over central North Dakota as a warm front lifted through the area. One storm became severe, producing one-inch diameter hail in Pierce County. Additional severe thunderstorms developed later in the day over the southern James River Valley, which are covered in a separate episode.				
LA MOURE COUNTY --- 4.0 WSW BERLIN [46.37, -98.56], 3.2 WSW BERLIN [46.37, -98.54]				
	08/09/20 13:02 CST		0.23M	Tornado (EF1, L: 0.87 mi , W: 100 yd)
	08/09/20 13:04 CST		15K	Source: Emergency Manager
This tornado touched down west-southwest of Berlin, and based on the damage that occurred was rated EF1. Near the point of touchdown, a pole barn on a farmstead was severely damaged. An overhead door and a bi-fold door were blown in, about one-third of the metal roofing panels were blown off, and the entire structure had an arc towards the north. Additional damage at the farmstead included a laid over van-style trailer and shingle damage to the house. The tornado then proceeded towards the east, causing damage to a corn field. Tornado winds were estimated, based on the damage done, at around 95 mph, again, EF1. This was the first of three tornadoes this day in LaMoure County, all within 20 minutes of each other.				
LA MOURE COUNTY --- 1.6 WSW BERLIN [46.37, -98.51], 1.4 SSE BERLIN [46.36, -98.46]				
	08/09/20 13:13 CST		0	Tornado (EFU, L: 2.24 mi , W: 100 yd)
	08/09/20 13:19 CST		0	Source: Law Enforcement
This tornado touched down south-southwest of Berlin and moved to the east-southeast. The tornado produced no damage to evaluate and so by National Weather Service policy was rated EFU, EF Unknown. This was the second of three tornadoes this day in LaMoure County, all within 20 minutes of each other.				
LA MOURE COUNTY --- 0.7 NE BERLIN [46.39, -98.47], 0.9 ENE BERLIN [46.39, -98.46]				
	08/09/20 13:19 CST		0	Tornado (EFU, L: 0.30 mi , W: 50 yd)
	08/09/20 13:20 CST		0	Source: Emergency Manager
This tornado touched down northeast of Berlin and moved to the east-southeast. The tornado produced no damage to evaluate and so by National Weather Service policy was rated EFU, EF Unknown. This was the third of three tornadoes this day in LaMoure County, all within 20 minutes of each other.				
LA MOURE COUNTY --- 3.9 W VERONA [46.36, -98.15]				
	08/09/20 14:31 CST		0	Hail (1.00 in)
	08/09/20 14:34 CST		0	Source: Public

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LA MOURE COUNTY --- 0.7 S VERONA [46.36, -98.07]				
	08/09/20 14:35 CST		0	Hail (1.00 in)
	08/09/20 14:38 CST		0	Source: Trained Spotter
DICKEY COUNTY --- 3.2 SE GLOVER [46.20, -98.08]				
	08/09/20 14:51 CST		0	Hail (1.00 in)
	08/09/20 14:53 CST		0	Source: Public
<p>Thunderstorms developed along a cold front as it moved into an area of strong instability and enhanced low level vorticity over the southern James River Valley. The initial storms that developed along the front appeared weak but became tornadic, producing three tornadoes in LaMoure County. The first was the strongest and near the community of Berlin. The three tornadoes developed within 20 minutes of each other. The first severely damaged a pole barn structure to the west-southwest of Berlin, and was rated EF1. The other two tornadoes impacted no structures and so did not produce damage, and by National Weather Service policy were rated EFU (EF Unknown). Thereafter, large hail became the main threat, with storms producing one-inch diameter hail in both LaMoure and Dickey counties.</p>				
BOWMAN COUNTY --- 14.9 WSW RHAME [46.15, -103.94]				
	08/11/20 17:14 MST		0	Hail (1.00 in)
	08/11/20 17:19 MST		0	Source: Public
MCKENZIE COUNTY --- 2.0 ESE GRASSY BUTTE [47.39, -103.21]				
	08/11/20 17:26 MST		0	Thunderstorm Wind (MG 78 kt)
	08/11/20 17:29 MST		35K	Source: Mesonet
Corn in the area was flattened.				
BOWMAN COUNTY --- 0.5 E BOWMAN [46.18, -103.39]				
	08/11/20 17:55 MST		0	Thunderstorm Wind (EG 61 kt)
	08/11/20 17:57 MST		0	Source: Emergency Manager
Thunderstorm wind gusts were estimated by the Emergency Manager.				
BOWMAN COUNTY --- 3.4 W BUFFALO SPGS [46.17, -103.30]				
	08/11/20 18:15 MST		0	Thunderstorm Wind (MG 67 kt)
	08/11/20 18:17 MST		0	Source: AWOS
DUNN COUNTY --- 6.5 NNW NEW HRADEC [47.09, -102.92]				
	08/11/20 18:45 MST		0	Thunderstorm Wind (EG 56 kt)
	08/11/20 18:47 MST		0	Source: Public
Thunderstorm wind gusts were estimated by the public.				
ADAMS COUNTY --- 2.1 S REEDER [46.09, -102.95]				
	08/11/20 18:55 MST		0	Thunderstorm Wind (EG 52 kt)
	08/11/20 18:58 MST		0	Source: Public
Thunderstorm wind gusts were estimated by the public.				
ADAMS COUNTY --- 0.7 S HETTINGER ARPT [46.01, -102.65]				
	08/11/20 19:13 MST		0	Thunderstorm Wind (MG 59 kt)
	08/11/20 19:19 MST		0	Source: ASOS
HETTINGER COUNTY --- 2.1 NNE BENTLEY [46.36, -102.06]				
	08/11/20 20:00 MST		0	Thunderstorm Wind (MG 50 kt)
	08/11/20 20:02 MST		0	Source: Mesonet

A short-wave trough moved into an area of enhanced instability producing thunderstorms with some becoming severe. The initial severe storm over western Bowman County produced large hail of one-inch diameter. Thereafter, strong winds became the threat for the remainder of the episode. The strongest wind gust was 90 mph over McKenzie County which flattened a corn crop.

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BOWMAN COUNTY --- 10.4 WSW RHAME [46.17, -103.85]				
	08/13/20 22:05 MST		0	Thunderstorm Wind (MG 57 kt)
	08/13/20 22:07 MST		0	Source: Mesonet
BOWMAN COUNTY --- 14.8 WSW RHAME [46.18, -103.95]				
	08/13/20 22:14 MST		0	Thunderstorm Wind (EG 61 kt)
	08/13/20 22:17 MST		0	Source: Emergency Manager
Thunderstorm wind gusts were reported by Emergency Management.				
BOWMAN COUNTY --- 3.0 WNW BOWMAN ARPT [46.19, -103.48]				
	08/13/20 22:36 MST		0	Thunderstorm Wind (MG 56 kt)
	08/13/20 22:38 MST		0	Source: Mesonet
BOWMAN COUNTY --- 3.4 W BUFFALO SPGS [46.17, -103.30]				
	08/13/20 22:43 MST		0	Thunderstorm Wind (MG 51 kt)
	08/13/20 22:45 MST		0	Source: AWOS
HETTINGER COUNTY --- 9.0 S NEW ENGLAND [46.40, -102.87]				
	08/13/20 23:17 MST		0	Thunderstorm Wind (EG 65 kt)
	08/13/20 23:19 MST		0	Source: Public
Thunderstorm wind gusts were estimated by the public.				
ADAMS COUNTY --- 2.8 N HETTINGER ARPT [46.06, -102.65]				
	08/13/20 23:40 MST		0	Hail (1.00 in)
	08/13/20 23:43 MST		0	Source: Public
HETTINGER COUNTY --- 2.1 NNE BENTLEY [46.36, -102.06]				
	08/14/20 00:08 MST		0	Thunderstorm Wind (MG 53 kt)
	08/14/20 00:10 MST		0	Source: Mesonet
ADAMS COUNTY --- 0.5 W HETTINGER [46.00, -102.64]				
	08/14/20 00:45 MST		0	Hail (1.25 in)
	08/14/20 00:48 MST		0	Source: Trained Spotter
ADAMS COUNTY --- 17.3 E HAYNES [45.97, -102.11]				
	08/14/20 02:30 MST		0	Thunderstorm Wind (MG 63 kt)
	08/14/20 02:32 MST		0	Source: Trained Spotter
HETTINGER COUNTY --- 2.1 NNE BENTLEY [46.36, -102.06]				
	08/14/20 02:42 MST		0	Thunderstorm Wind (MG 64 kt)
	08/14/20 02:44 MST		0	Source: Mesonet
SIOUX COUNTY --- 2.1 S CANNON BALL [46.36, -100.59]				
	08/14/20 03:58 MST		24K	Thunderstorm Wind (EG 70 kt)
	08/14/20 04:03 MST		0	Source: Utility Company
Multiple power poles broke down in the area.				
EMMONS COUNTY --- 3.1 SSE KINTYRE [46.51, -99.92]				
	08/14/20 04:05 CST		0	Hail (1.50 in)
	08/14/20 04:08 CST		0	Source: Broadcast Media
LOGAN COUNTY --- 0.8 NE NAPOLEON [46.51, -99.76]				
	08/14/20 04:18 CST		0	Hail (1.50 in)
	08/14/20 04:21 CST		0	Source: Trained Spotter

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MORTON COUNTY --- 6.3 ENE BREIEN [46.40, -100.80]				
	08/14/20 04:48 CST		45K	Thunderstorm Wind (EG 70 kt)
	08/14/20 04:53 CST		0	Source: Emergency Manager
Fifteen power poles were broken down.				
LOGAN COUNTY --- 7.6 S GACKLE [46.52, -99.14]				
	08/14/20 05:15 CST		0	Hail (1.00 in)
	08/14/20 05:18 CST		0	Source: Public
EMMONS COUNTY --- 2.8 S HAZELTON ARPT [46.44, -100.26]				
	08/14/20 05:20 CST		0	Thunderstorm Wind (EG 52 kt)
	08/14/20 05:23 CST		0	Source: Trained Spotter
Thunderstorm wind gusts were estimated by a trained spotter.				
STUTSMAN COUNTY --- 3.5 SE ELDRIDGE [46.87, -98.77]				
	08/14/20 05:23 CST		0	Hail (1.75 in)
	08/14/20 05:26 CST		0	Source: Public
STUTSMAN COUNTY --- 0.8 NW JAMESTOWN [46.91, -98.71]				
	08/14/20 05:34 CST		0	Hail (1.00 in)
	08/14/20 05:38 CST		0	Source: Public
LOGAN COUNTY --- 9.6 E NAPOLEON [46.52, -99.57]				
	08/14/20 05:55 CST		0	Hail (1.75 in)
	08/14/20 05:59 CST		0	Source: Trained Spotter
LA MOURE COUNTY --- 6.2 NNW VERONA [46.45, -98.11], 6.0 N VERONA [46.46, -98.09]				
	08/14/20 07:35 CST		0.50M	Thunderstorm Wind (EG 83 kt)
	08/14/20 07:40 CST		0	Source: Law Enforcement
Significant damage occurred to two farmsteads in close proximity to each other. Multiple pole barn sheds and grain bins were either severely damaged or destroyed. Shelterbelts were severely damaged, with multiple trees either broken or uprooted. Many pieces of farm equipment were also damaged.				
Thunderstorms moved into southwest North Dakota during the late night hours ahead of a strong short-wave trough. Initially, the main threat with the thunderstorms was damaging wind gusts. As the storms moved through south central North Dakota and into the James River Valley during the early morning hours, the threat shifted to a mix of damaging wind gusts and large hail as a low-level jet increased. The largest hail was golf ball size, and fell in both Stutsman and Logan counties. The strongest wind gust was estimated at 95 mph in LaMoure County where significant damage occurred to two farmsteads.				
RENVILLE COUNTY --- 5.7 SW GLENBURN [48.47, -101.32]				
	08/14/20 17:15 CST		0	Hail (1.00 in)
	08/14/20 17:17 CST		0	Source: Public
WARD COUNTY --- 0.8 SSE (MIB)MINOT AFB [48.42, -101.36]				
	08/14/20 17:23 CST		0	Hail (1.75 in)
	08/14/20 17:26 CST		0	Source: Public
WARD COUNTY --- 3.3 SW SAWYER [48.04, -101.09]				
	08/14/20 17:35 CST		0	Hail (0.88 in)
	08/14/20 17:38 CST		0	Source: Public
WARD COUNTY --- 6.6 SW SAWYER [48.02, -101.16]				
	08/14/20 17:35 CST		0	Hail (1.00 in)
	08/14/20 17:37 CST		0	Source: Public

Thunderstorms developed over north central North Dakota during the afternoon into the early evening hours ahead of a strong short-wave trough in an area of modest instability. A few of these storms became severe, producing large hail. The largest hail was the size of golf balls, and fell in Ward County.

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DICKEY COUNTY --- 3.4 W FORBES [45.95, -98.85]				
	08/23/20 16:00 CST		0	Hail (1.50 in)
	08/23/20 16:05 CST		0	Source: Trained Spotter
DICKEY COUNTY --- 1.5 NNE FORBES [45.97, -98.77]				
	08/23/20 16:05 CST		0	Hail (2.50 in)
	08/23/20 16:09 CST		0	Source: Trained Spotter
DICKEY COUNTY --- 1.4 E FORBES [45.95, -98.75]				
	08/23/20 16:11 CST		0	Hail (3.75 in)
	08/23/20 16:14 CST		0	Source: Trained Spotter
DICKEY COUNTY --- 4.2 S ELLENDALE [45.94, -98.53]				
	08/23/20 16:41 CST		0	Hail (1.75 in)
	08/23/20 16:44 CST		0	Source: Emergency Manager
DICKEY COUNTY --- 4.2 N GUELPH [46.08, -98.22]				
	08/23/20 17:40 CST		0	Hail (1.00 in)
	08/23/20 17:43 CST		0	Source: Public
KIDDER COUNTY --- 4.5 SSW PETTIBONE [47.06, -99.56]				
	08/23/20 20:20 CST		0	Hail (1.75 in)
	08/23/20 20:23 CST		0	Source: Trained Spotter
STUTSMAN COUNTY --- 0.7 N CLEVELAND [46.89, -99.12]				
	08/23/20 21:07 CST		0	Hail (1.00 in)
	08/23/20 21:10 CST		0	Source: Public
LOGAN COUNTY --- 9.1 NNE NAPOLEON [46.62, -99.69]				
	08/23/20 21:25 CST		0	Hail (1.00 in)
	08/23/20 21:28 CST		0	Source: Public
LOGAN COUNTY --- 8.0 NNW NAPOLEON [46.61, -99.82]				
	08/23/20 22:12 CST		0	Hail (1.00 in)
	08/23/20 22:15 CST		0	Source: Trained Spotter
KIDDER COUNTY --- 1.2 NW TAPPEN [46.88, -99.64]				
	08/23/20 23:30 CST		0	Hail (0.88 in)
	08/23/20 23:33 CST		0	Source: Trained Spotter
STUTSMAN COUNTY --- 6.2 N MEDINA [46.97, -99.30]				
	08/24/20 01:01 CST		0	Hail (0.88 in)
	08/24/20 01:04 CST		0	Source: Trained Spotter
<p>Thunderstorms initially formed along a frontal boundary sagging through North Dakota, though additional storms then developed along various outflow boundaries. Strong instability was in place, so some storms produced large hail, with some being very large towards the beginning of the episode. The largest hail was 3.75 inches in diameter, which fell near Forbes in Dickey County.</p>				
STARK COUNTY --- 1.5 NNW DICKINSON [46.90, -102.79]				
	08/27/20 06:40 MST		5K	Thunderstorm Wind (EG 56 kt)
	08/27/20 06:50 MST		0	Source: Public
<p>A bolted down deck canopy blew over, and a few small trees blew down.</p>				
<p>Thunderstorms developed over eastern Montana and southwest North Dakota ahead of a short-wave trough and in the vicinity of a low level jet. One storm became severe near Dickinson, producing estimated 65 mph wind gusts.</p>				
HETTINGER COUNTY --- 5.2 SSE REGENT [46.35, -102.51]				

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	08/27/20 17:38 MST		0	Hail (1.75 in)
	08/27/20 17:41 MST		0	Source: Trained Spotter
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GRANT COUNTY --- 13.3 NNW ELGIN [46.58, -101.95]				
	08/27/20 18:00 MST		0	Hail (2.00 in)
	08/27/20 18:03 MST		0	Source: Public
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GRANT COUNTY --- 15.4 N ELGIN [46.62, -101.90]				
	08/27/20 18:13 MST		0	Hail (1.75 in)
	08/27/20 18:15 MST		0	Source: Public
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GRANT COUNTY --- 13.2 N ELGIN MUNI ARPT [46.59, -101.81]				
	08/27/20 18:16 MST		0	Hail (1.50 in)
	08/27/20 18:19 MST		0	Source: Trained Spotter

Thunderstorms developed ahead of a short-wave trough in an area of elevated instability and deep layer shear. A few storms became severe, producing large hail. The largest hail was two inches in diameter, and fell in Grant County.