

Storm Data and Unusual Weather Phenomena - June 2021

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

(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

06/01/21 00:00 CST	0	Drought
06/30/21 23:59 CST	0	

June started with a D3 to D4 drought over almost all of western and central North Dakota. Of the 36 NWS Bismarck forecast area counties, 31 were almost entirely in D3 or D4, with the exceptions being parts of Stark, Hettinger, Stutsman, LaMoure and Dickey counties in D2. By the middle of the month, some rain had fallen over southwest and portions of northwest North Dakota. As a result, parts of southwest North Dakota and a part of the northwest improved to D2, through the rest of the month. The area with the D4 designation which stretched from the Lake Sakakawea region into much of north central North Dakota did not change much through the month.

MCKENZIE COUNTY --- 1.9 E WATFORD CITY [47.80, -103.24]

06/04/21 23:40 MST	0	Thunderstorm Wind (MG 50 kt)
06/04/21 23:43 MST	0	Source: Mesonet

A short-wave trough passing through the area led to some very early morning thunderstorms with gusty winds developing. One storm produced severe wind gusts of 58 mph near Watford City in McKenzie County.

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

06/05/21 21:04 MST	0	Thunderstorm Wind (MG 58 kt)
06/05/21 21:07 MST	0	Source: ASOS

DUNN COUNTY --- 4.7 ENE NEW HRADEC [47.03, -102.79]

06/05/21 21:08 MST	0	Thunderstorm Wind (MG 50 kt)
06/05/21 21:12 MST	0	Source: Mesonet

STARK COUNTY --- 0.5 W DICKINSON [46.88, -102.79]

06/05/21 22:10 MST	0	Hail (1.00 in)
06/05/21 22:12 MST	0	Source: Public

STARK COUNTY --- 1.2 SW GLADSTONE [46.86, -102.57]

06/05/21 22:24 MST	0	Hail (0.75 in)
06/05/21 22:27 MST	0	Source: Public

MERCER COUNTY --- 1.7 NE GOLDEN VLY [47.30, -102.05]

06/05/21 22:53 CST	0	Thunderstorm Wind (MG 59 kt)
06/05/21 22:56 CST	0	Source: Mesonet

MERCER COUNTY --- 2.3 W HAZEN [47.30, -101.68]

06/05/21 23:05 CST	0	Thunderstorm Wind (MG 54 kt)
06/05/21 23:08 CST	0	Source: Mesonet

MCLEAN COUNTY --- 0.5 W GARRISON [47.65, -101.43]

06/05/21 23:19 CST	0	Thunderstorm Wind (MG 59 kt)
06/05/21 23:21 CST	0	Source: AWOS

MERCER COUNTY --- BEULAH [47.27, -101.78]

06/05/21 23:26 CST	0	Thunderstorm Wind (EG 61 kt)
06/05/21 23:28 CST	0	Source: Public

The public estimated wind gusts to 70 mph.

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WARD COUNTY --- 1.5 SSE (MOT)MINOT INTL ARPT [48.25, -101.27]				
	06/05/21 23:34 CST		0	Thunderstorm Wind (MG 56 kt)
	06/05/21 23:37 CST		0	Source: ASOS
MERCER COUNTY --- 0.7 N STANTON [47.33, -101.38]				
	06/05/21 23:50 CST		0	Thunderstorm Wind (MG 52 kt)
	06/05/21 23:52 CST		0	Source: Mesonet
PIERCE COUNTY --- 2.0 WNW RUGBY [48.38, -100.02]				
	06/06/21 00:55 CST		0	Thunderstorm Wind (MG 50 kt)
	06/06/21 00:57 CST		0	Source: AWOS
<p>Severe thunderstorms occurred along a cold front that pushed into western and central North Dakota where strong instability and enhanced deep layer shear were noted. Strong wind gusts became the main threat, though one storm did produce large hail in Stark County. The strongest reported wind gusts, estimated at 70 mph, occurred at Beulah in Mercer County.</p>				
STUTSMAN COUNTY --- 1.4 N MEDINA [46.90, -99.30]				
	06/07/21 17:49 CST		0	Hail (1.25 in)
	06/07/21 17:51 CST		0	Source: Public
MCINTOSH COUNTY --- 6.7 NE DANZIG [46.19, -99.36]				
	06/07/21 17:54 CST		0	Hail (1.75 in)
	06/07/21 17:56 CST		0	Source: Public
STUTSMAN COUNTY --- 3.4 WNW CLEVELAND [46.89, -99.19]				
	06/07/21 17:55 CST		0	Thunderstorm Wind (EG 56 kt)
	06/07/21 17:57 CST		0	Source: NWS Employee
<p>Thunderstorm wind gusts were estimated by an National Weather Service employee.</p>				
MCINTOSH COUNTY --- 2.8 N ASHLEY [46.07, -99.37]				
	06/07/21 17:58 CST		0	Hail (1.00 in)
	06/07/21 18:00 CST		0	Source: Trained Spotter
MCINTOSH COUNTY --- 5.0 ENE DANZIG [46.15, -99.37]				
	06/07/21 18:05 CST		0	Hail (1.50 in)
	06/07/21 18:08 CST		0	Source: Trained Spotter
MCINTOSH COUNTY --- 8.2 NE DANZIG [46.22, -99.36]				
	06/07/21 18:06 CST		5K	Thunderstorm Wind (EG 61 kt)
	06/07/21 18:10 CST		0	Source: Public
<p>One-inch diameter tree limbs were broken, and some shingles were blown off a structure.</p>				
MCINTOSH COUNTY --- 4.8 E DANZIG [46.14, -99.37]				
	06/07/21 18:11 CST		0	Hail (2.00 in)
	06/07/21 18:14 CST		0	Source: Public
LOGAN COUNTY --- 3.2 ENE LEHR [46.30, -99.29]				
	06/07/21 18:17 CST		3K	Thunderstorm Wind (EG 65 kt)
	06/07/21 18:21 CST		0	Source: Trained Spotter
<p>A power pole was snapped off at its base.</p>				
MCINTOSH COUNTY --- 14.5 E WISHEK [46.28, -99.25]				
	06/07/21 18:20 CST		3K	Thunderstorm Wind (EG 65 kt)
	06/07/21 18:23 CST		0	Source: Trained Spotter
<p>A power pole was snapped.</p>				

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LA MOURE COUNTY --- 8.7 SW JUD [46.43, -99.01]				
	06/07/21 18:28 CST		0.10M	Thunderstorm Wind (EG 70 kt)
	06/07/21 18:34 CST		0	Source: Public
A majority of the second story of an older barn was destroyed. A tree was down and a 500 gallon propane tank was moved on top of the tree. A corral was damaged, and some sheet metal blew off of a machine shed. A power pole with transformer was also toppled.				
LOGAN COUNTY --- 6.8 ENE BURNSTAD [46.42, -99.49]				
	06/07/21 18:33 CST		0	Hail (1.75 in)
	06/07/21 18:36 CST		0	Source: Public
LOGAN COUNTY --- 11.8 N LEHR [46.45, -99.35]				
	06/07/21 18:46 CST		0	Hail (1.25 in)
	06/07/21 18:49 CST		0	Source: Public
LOGAN COUNTY --- 11.6 W GACKLE [46.60, -99.37]				
	06/07/21 18:47 CST		0	Hail (2.25 in)
	06/07/21 18:50 CST		0	Source: Public
LOGAN COUNTY --- 12.4 N LEHR [46.46, -99.35]				
	06/07/21 18:49 CST		0	Hail (2.00 in)
	06/07/21 18:51 CST		0	Source: Trained Spotter
STUTSMAN COUNTY --- 5.3 W MILLARTON [46.68, -98.86]				
	06/07/21 18:50 CST		0	Hail (2.50 in)
	06/07/21 18:53 CST		0	Source: Trained Spotter
STUTSMAN COUNTY --- 2.4 NE MILLARTON [46.69, -98.71]				
	06/07/21 19:10 CST		0	Hail (1.00 in)
	06/07/21 19:12 CST		0	Source: Storm Chaser
LOGAN COUNTY --- 0.5 W GACKLE [46.63, -99.14]				
	06/07/21 19:28 CST		0	Hail (1.00 in)
	06/07/21 19:30 CST		0	Source: Trained Spotter
MCINTOSH COUNTY --- 2.0 ENE WISHEK [46.26, -99.51]				
	06/07/21 19:30 CST		0	Hail (1.25 in)
	06/07/21 19:33 CST		0	Source: Storm Chaser
STUTSMAN COUNTY --- 5.0 W MILLARTON [46.68, -98.85], 3.9 WNW MILLARTON [46.68, -98.83]				
	06/07/21 19:57 CST		0	Tornado (EFU, L: 1.11 mi , W: 40 yd)
	06/07/21 19:59 CST		0	Source: Trained Spotter
The tornado touched down in an open field west of Millarton. There was no damage to evaluate and so by National Weather Service policy the tornado is rated EF Unknown.				
STUTSMAN COUNTY --- 4.7 SW SYDNEY [46.69, -98.85]				
	06/07/21 20:00 CST		1K	Thunderstorm Wind (EG 61 kt)
	06/07/21 20:02 CST		0	Source: Public
A tree was blown over. Diameter of the tree is unknown.				
STUTSMAN COUNTY --- 5.6 WSW SYDNEY [46.70, -98.88]				
	06/07/21 20:00 CST		5K	Thunderstorm Wind (EG 61 kt)
	06/07/21 20:04 CST		0	Source: Public
A tree blew down on a power line.				

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LA MOURE COUNTY --- 2.8 S MARION [46.56, -98.33]				
	06/07/21 20:30 CST		0	Thunderstorm Wind (MG 56 kt)
	06/07/21 20:33 CST		0	Source: Mesonet
MCINTOSH COUNTY --- 10.5 W WISHEK [46.26, -99.77]				
	06/07/21 21:35 CST		0	Hail (1.25 in)
	06/07/21 21:38 CST		0	Source: Public
MCINTOSH COUNTY --- 6.7 W WISHEK [46.26, -99.69]				
	06/07/21 21:57 CST		0	Hail (1.00 in)
	06/07/21 21:59 CST		0	Source: Public
LA MOURE COUNTY --- ADRIAN [46.60, -98.55]				
	06/08/21 00:47 CST		0	Hail (1.00 in)
	06/08/21 00:49 CST		0	Source: Public
LA MOURE COUNTY --- 0.5 W ADRIAN [46.60, -98.56]				
	06/08/21 01:13 CST		0	Hail (2.00 in)
	06/08/21 01:14 CST		0	Source: Public
LA MOURE COUNTY --- 1.0 E ADRIAN [46.60, -98.53]				
	06/08/21 01:14 CST		0	Hail (1.50 in)
	06/08/21 01:16 CST		0	Source: Public
LA MOURE COUNTY --- 0.8 NW ADRIAN [46.61, -98.56]				
	06/08/21 01:17 CST		0	Hail (2.00 in)
	06/08/21 01:20 CST		0	Source: Public
STUTSMAN COUNTY --- 0.8 NW JAMESTOWN [46.91, -98.71]				
	06/08/21 01:55 CST		0	Thunderstorm Wind (MG 52 kt)
	06/08/21 01:57 CST		0	Source: Storm Chaser
A storm chaser reported 60 mph thunderstorm wind gusts.				
STUTSMAN COUNTY --- JAMESTOWN [46.90, -98.70]				
	06/08/21 02:07 CST		0	Hail (1.00 in)
	06/08/21 02:09 CST		0	Source: Public
LA MOURE COUNTY --- 3.8 WNW MARION [46.63, -98.40], 4.1 ENE MARION [46.63, -98.25], 3.4 SE MARION [46.57, -98.28], 3.4 WSW MARION [46.58, -98.40]				
	06/08/21 03:00 CST		0.40M	Flash Flood (due to Heavy Rain)
	06/08/21 07:00 CST		0	Source: Emergency Manager
Over six inches of rain fell over parts of northeast LaMoire County, with unconfirmed reports of ten inches near Marion. This led to flooding in the city of Marion, with water flowing over roads and up to homes. County roads were also flooded, with water flowing over causing extensive damage.				
STUTSMAN COUNTY --- 2.5 SSE STATE HOSPITAL [46.85, -98.65]				
	06/08/21 03:07 CST		0	Hail (1.00 in)
	06/08/21 03:10 CST		0	Source: Public
STUTSMAN COUNTY --- 0.7 N MEDINA [46.89, -99.30]				
	06/08/21 06:30 CST		5K	Thunderstorm Wind (EG 61 kt)
	06/08/21 06:33 CST		0	Source: Public
A shed was damaged.				
STUTSMAN COUNTY --- MEDINA [46.88, -99.30]				

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	06/08/21 06:50 CST		0	Thunderstorm Wind (EG 61 kt)
	06/08/21 06:53 CST		0	Source: Law Enforcement
Law enforcement estimated wind gusts of 70 mph.				
STUTSMAN COUNTY --- 0.9 E MEDINA [46.88, -99.28]				
	06/08/21 07:23 CST		0	Thunderstorm Wind (MG 61 kt)
	06/08/21 07:25 CST		0	Source: Mesonet
KIDDER COUNTY --- 1.4 E STEELE [46.85, -99.87]				
	06/08/21 08:40 CST		0	Hail (0.88 in)
	06/08/21 08:44 CST		0	Source: Trained Spotter
KIDDER COUNTY --- 4.6 SSW STEELE [46.79, -99.94]				
	06/08/21 08:40 CST		0	Hail (0.75 in)
	06/08/21 08:44 CST		0	Source: Trained Spotter
KIDDER COUNTY --- 0.9 W TAPPEN [46.87, -99.64]				
	06/08/21 08:45 CST		0	Hail (0.88 in)
	06/08/21 08:48 CST		0	Source: Public
KIDDER COUNTY --- 2.9 ENE STEELE [46.86, -99.84]				
	06/08/21 09:15 CST		10K	Thunderstorm Wind (EG 61 kt)
	06/08/21 09:19 CST		0	Source: Law Enforcement
Trees were blown down.				
KIDDER COUNTY --- 1.0 W STEELE [46.85, -99.92]				
	06/08/21 09:20 CST		10K	Thunderstorm Wind (EG 61 kt)
	06/08/21 09:24 CST		0	Source: Emergency Manager
Trees were blown down.				
KIDDER COUNTY --- 4.8 WSW STEELE MUNI ARPT [46.83, -100.08], 1.9 N STEELE [46.88, -99.90], 0.9 NW DAWSON [46.88, -99.74], 15.5 SSE STEELE [46.63, -99.82], 15.7 SSW STEELE MUNI ARPT [46.63, -100.08]				
	06/08/21 10:20 CST		0.35M	Flash Flood (due to Heavy Rain)
	06/08/21 13:00 CST		0	Source: Law Enforcement
Over four inches of rain was measured over various parts of southwest Kidder County, with radar estimates of over six inches. In the city of Steele, many roads were under water. Over rural portions of the county affected by the heavy rain, multiple gravel road and culvert washouts occurred.				
EMMONS COUNTY --- 2.3 NNE HAZELTON ARPT [46.51, -100.25]				
	06/08/21 10:45 CST		0	Hail (1.50 in)
	06/08/21 10:48 CST		0	Source: Public
SIOUX COUNTY --- 5.5 SE SOLEN [46.34, -100.71]				
	06/08/21 11:30 MST		0	Hail (1.75 in)
	06/08/21 11:33 MST		0	Source: Trained Spotter
BURLEIGH COUNTY --- 3.4 SSW MOFFIT [46.63, -100.30], 10.0 ESE MOFFIT [46.63, -100.08], 2.9 ESE DRISCOLL [46.83, -100.08], 2.9 SE DRISCOLL [46.82, -100.09]				
	06/08/21 11:45 CST		0.10M	Flash Flood (due to Heavy Rain)
	06/08/21 15:00 CST		0	Source: Trained Spotter
Over five inches of rain was estimated to have fallen over far southeast Burleigh County. This heavy rain damaged roads and culverts.				
EMMONS COUNTY --- 6.0 NNE KINTYRE [46.63, -99.91], 4.6 W LINTON [46.26, -100.33], 15.5 W LINTON [46.25, -100.55], 14.1 W TEMVIK [46.34, -100.54], 14.8 WSW HAZELTON [46.40, -100.57], 10.7 N HAZELTON [46.63, -100.30]				
	06/08/21 11:45 CST		0.60M	Flash Flood (due to Heavy Rain)
	06/08/21 15:00 CST		0	Source: Trained Spotter

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Over five inches of rain was measured over parts of west-central into northeast Emmons County, with over seven inches indicated on radar, leading to flash flooding. In Hazelton, streets and yards flooded. Near Braddock, a mail delivery vehicle was swept away in flood waters, along with another vehicle. Multiple rural roads were heavily damaged.

BURLEIGH COUNTY --- 1.9 E MOFFIT [46.68, -100.24]

	06/08/21 11:47 CST		0	Thunderstorm Wind (MG 55 kt)
	06/08/21 11:49 CST		0	Source: Mesonet

GRANT COUNTY --- ELGIN [46.40, -101.85]

	06/08/21 13:35 MST		0	Thunderstorm Wind (EG 52 kt)
	06/08/21 13:37 MST		0	Source: Law Enforcement

Law Enforcement reported thunderstorm wind gusts of 60 mph.

GRANT COUNTY --- 0.5 E ELGIN MUNI ARPT [46.40, -101.82]

	06/08/21 13:40 MST		0	Hail (1.00 in)
	06/08/21 13:43 MST		0	Source: Storm Chaser

GRANT COUNTY --- 9.8 WSW SHIELDS [46.20, -101.33]

	06/08/21 13:48 MST		0	Hail (1.00 in)
	06/08/21 13:51 MST		0	Source: Trained Spotter

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

	06/08/21 14:11 MST		0	Thunderstorm Wind (MG 52 kt)
	06/08/21 14:13 MST		0	Source: Mesonet

GRANT COUNTY --- 1.3 WSW RALEIGH [46.36, -101.32], 3.6 ENE FREDA [46.36, -101.10], 6.4 SW SHIELDS [46.17, -101.24], 12.4 S BRISBANE [46.17, -101.44]

	06/08/21 14:30 MST		0.15M	Flash Flood (due to Heavy Rain)
	06/08/21 17:30 MST		0	Source: Broadcast Media

Over five inches of rain fell over southeastern Grand County. Flood waters washed out 75th Street near Freda, which is east of the community of Raleigh.

GOLDEN VALLEY COUNTY --- 5.2 W TROTTERS [47.32, -104.03]

	06/08/21 17:00 MST		0	Hail (2.50 in)
	06/08/21 17:03 MST		0	Source: Broadcast Media

GOLDEN VALLEY COUNTY --- 5.2 W TROTTERS [47.32, -104.03]

	06/08/21 17:10 MST		0	Hail (2.75 in)
	06/08/21 17:13 MST		0	Source: Public

MCKENZIE COUNTY --- 31.6 W GRASSY BUTTE [47.34, -103.92]

	06/08/21 17:28 MST		0	Hail (1.75 in)
	06/08/21 17:30 MST		0	Source: Public

MCKENZIE COUNTY --- 5.4 NE KEENE [47.98, -102.86]

	06/08/21 18:25 MST		0	Funnel Cloud
	06/08/21 18:26 MST		0	Source: Storm Chaser

BILLINGS COUNTY --- 6.9 N FAIRFIELD [47.28, -103.22]

	06/08/21 18:45 MST		50K	Thunderstorm Wind (EG 70 kt)
	06/08/21 18:49 MST		0	Source: Public

Trees were knocked down at the residence. A neighbor nearby had a machine shed destroyed. In addition some power poles were snapped nearby.

DUNN COUNTY --- MANNING [47.23, -102.77]

	06/08/21 19:20 MST		0.10M	Thunderstorm Wind (EG 65 kt)
	06/08/21 19:24 MST		0	Source: Public

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A cellular phone tower was blown down.				
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MOUNTRAIL COUNTY --- 0.5 W NEW TOWN [47.98, -102.49]	06/08/21 20:00 CST		0.10M	Thunderstorm Wind (EG 65 kt)
	06/08/21 20:05 CST		0	Source: Emergency Manager
Multiple mature trees were blown over, with some being 30 to 40 feet in height. Some power lines were damaged.				
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MCKENZIE COUNTY --- 34.5 S FAIRVIEW [47.35, -104.03]	06/08/21 21:20 MST		0	Thunderstorm Wind (EG 52 kt)
	06/08/21 21:22 MST		0	Source: Storm Chaser
Thunderstorm wind gusts were estimated by a storm chaser.				
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ADAMS COUNTY --- 4.2 N HETTINGER ARPT [46.08, -102.64]	06/08/21 21:50 MST		0	Thunderstorm Wind (EG 52 kt)
	06/08/21 21:54 MST		0	Source: Public
Thunderstorm winds moved a section of oil pipe and a wind break panel.				
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HETTINGER COUNTY --- 2.1 NNE BENTLEY [46.36, -102.06]	06/08/21 22:08 MST		0	Thunderstorm Wind (MG 59 kt)
	06/08/21 22:10 MST		0	Source: Mesonet
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WILLIAMS COUNTY --- 9.6 WNW TRENTON [48.14, -104.03]	06/08/21 22:44 CST		0	Thunderstorm Wind (EG 65 kt)
	06/08/21 22:49 CST		0	Source: Public
A tree was blown over.				
<p>An extended period consisting of two days of continuous severe weather occurred from June 7 through June 8. Thunderstorms initially developed along a warm front over the James River Valley into parts of south central North Dakota where strong instability and deep layer shear were noted. During the evening, a mix of wind and hail damage occurred. The largest hail reported during this period was 2.25 inches in diameter which occurred in Logan County, while the strongest reported wind gust occurred in LaMoure County, which was estimated at 80 mph. In addition a tornado occurred in Stutsman County. The tornado caused no damage and was rated EF-U, EF Unknown. As the night went on, a strong low level jet sustained severe thunderstorms. These continued into the morning, before storms started gradually spreading to the west along the slow moving, if not stationary, warm front that initiated the storms the previous evening. From early morning into the afternoon, large hail and damaging wind gusts remained a concern, but the primary threat became flooding due to the slow moving storms gradually back-building towards the west. The initial flooding occurred over the southern James River Valley, particularly near the city of Marion in LaMoure County. The flooding concerns then gradually spread west into Kidder, Emmons, Burleigh, and Grant counties. Later in the afternoon into the evening and nighttime hours as the storms developed over far western North Dakota, the main threats changed back to large hail and damaging wind gusts. During this time period, the largest reported hail was the size of a baseball, which fell in Golden Valley County. The strongest reported wind gust was estimated to be at 80 mph, in Billings County.</p>				
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MCKENZIE COUNTY --- 25.2 S FAIRVIEW [47.49, -103.94], 25.1 S FAIRVIEW [47.49, -103.93]	06/10/21 16:12 MST		0	Tornado (EFU, L: 0.57 mi , W: 50 yd)
	06/10/21 16:15 MST		0	Source: Law Enforcement
The tornado touched down in an open field northeast of Skaar. There was no damage to evaluate and so by National Weather Service policy the tornado is rated EF Unknown.				
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MCKENZIE COUNTY --- 19.1 SSW EAST FAIRVIEW [47.58, -103.91]	06/10/21 16:30 MST		0	Hail (1.75 in)
	06/10/21 16:33 MST		0	Source: Trained Spotter
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MCKENZIE COUNTY --- 14.7 S EAST FAIRVIEW [47.64, -103.87], 14.3 S EAST FAIRVIEW [47.64, -103.85]	06/10/21 16:32 MST		0	Tornado (EFU, L: 1.01 mi , W: 100 yd)
	06/10/21 16:38 MST		0	Source: Public
The tornado touched down in an open field southwest of Sather Dam. There was no damage to evaluate and so by National Weather Service policy the tornado is rated EF Unknown.				

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MCKENZIE COUNTY --- 2.0 WSW ALEXANDER [47.84, -103.69]				
	06/10/21 17:23 MST		0	Hail (1.50 in)
	06/10/21 17:26 MST		0	Source: Law Enforcement
MCKENZIE COUNTY --- 20.7 SSE FAIRVIEW [47.56, -103.94], 19.7 S EAST FAIRVIEW [47.57, -103.89]				
	06/10/21 17:55 MST		0	Tornado (EFU, L: 2.09 mi , W: 100 yd)
	06/10/21 18:13 MST		0	Source: Trained Spotter
The tornado touched down and moved through open rangeland in rugged terrain southwest of Sather Dam, near the location of the previous tornado report. This tornado was noted to be quite large, and long lasting. There was no damage to evaluate and so by National Weather Service policy the tornado is rated EF Unknown.				
MCKENZIE COUNTY --- 18.6 SSW EAST FAIRVIEW [47.59, -103.92]				
	06/10/21 18:01 MST		0	Hail (1.00 in)
	06/10/21 18:05 MST		0	Source: Trained Spotter
MCKENZIE COUNTY --- 12.4 S EAST FAIRVIEW [47.67, -103.81]				
	06/10/21 18:10 MST		0	Hail (1.00 in)
	06/10/21 18:13 MST		0	Source: Law Enforcement
WILLIAMS COUNTY --- 7.2 NW (ISN)SLOULIN FLD WIL [48.26, -103.75]				
	06/10/21 18:34 CST		0	Thunderstorm Wind (MG 57 kt)
	06/10/21 18:37 CST		0	Source: ASOS
MCKENZIE COUNTY --- 15.9 S FAIRVIEW [47.62, -104.02]				
	06/10/21 18:45 MST		0	Hail (1.25 in)
	06/10/21 18:49 MST		0	Source: COOP Observer
WILLIAMS COUNTY --- 3.5 N RAY [48.40, -103.17]				
	06/10/21 19:00 CST		0	Thunderstorm Wind (MG 57 kt)
	06/10/21 19:04 CST		0	Source: Mesonet
WILLIAMS COUNTY --- 8.4 NW TIOGA [48.47, -103.08]				
	06/10/21 19:40 CST		0	Thunderstorm Wind (MG 56 kt)
	06/10/21 19:42 CST		0	Source: Mesonet
MCKENZIE COUNTY --- 13.8 N ALEXANDER [48.05, -103.66]				
	06/10/21 19:42 MST		0	Hail (2.00 in)
	06/10/21 19:45 MST		0	Source: Trained Spotter
WILLIAMS COUNTY --- 2.9 NNE (ISN)SLOULIN FLD WIL [48.22, -103.63]				
	06/10/21 20:10 CST		0	Hail (1.75 in)
	06/10/21 20:13 CST		0	Source: Emergency Manager
WILLIAMS COUNTY --- 5.5 N TRENTON [48.15, -103.84]				
	06/10/21 20:28 CST		40K	Thunderstorm Wind (EG 70 kt)
	06/10/21 20:32 CST		0	Source: Public
Part of a roof was blown off a building, and another small building was blown over.				
WILLIAMS COUNTY --- 0.8 NNW WILLISTON [48.16, -103.63]				
	06/10/21 20:36 CST		0	Hail (1.50 in)
	06/10/21 20:40 CST		0	Source: COOP Observer
WILLIAMS COUNTY --- 2.5 WSW WILLISTON [48.13, -103.67], 4.0 NE WILLISTON [48.19, -103.56]				
	06/10/21 20:36 CST		1M	Hail (2.50 in)
	06/10/21 20:54 CST		0	Source: COOP Observer

Storm Data and Unusual Weather Phenomena - June 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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This was the first of multiple rounds of hail to strike the Williston area the evening of June 10. With this round, hail up to the size of tennis balls fell over the Williston area. This caused damage to many roofs and vehicles, including damaging every police car in the city, and every vehicle parked in the Williams County facility lot. In addition, strong winds with this storm blew a roof off a truck and car wash.

WILLIAMS COUNTY --- 4.2 N TRENTON [48.13, -103.85]

06/10/21 20:41 CST			20K	Thunderstorm Wind (EG 65 kt)
06/10/21 20:45 CST			0	Source: Public

A roof was damaged.

DIVIDE COUNTY --- 10.2 SSW ALKABO [48.73, -103.94]

06/10/21 20:55 CST			0	Thunderstorm Wind (MG 54 kt)
06/10/21 20:58 CST			0	Source: Mesonet

WILLIAMS COUNTY --- 3.8 E WILLISTON [48.16, -103.54], 4.6 ENE WILLISTON [48.17, -103.52]

06/10/21 20:57 CST			0	Tornado (EFU, L: 0.92 mi , W: 40 yd)
06/10/21 21:00 CST			0	Source: Storm Chaser

The tornado touched down in an open field east of Williston. There was no damage to evaluate and so by National Weather Service policy the tornado is rated EF Unknown.

WILLIAMS COUNTY --- 7.5 NNW (ISN)SLOULIN FLD WIL [48.29, -103.68], 2.4 NNE TRENTON [48.10, -103.84], 4.9 S WILLISTON [48.08, -103.61], 2.1 N SPRING BROOK [48.28, -103.48]

06/10/21 21:00 CST			0.80M	Flash Flood (due to Heavy Rain)
06/11/21 00:00 CST			0	Source: Emergency Manager

Up to five inches of rain fell in the Williston area as multiple rounds of thunderstorms passed through. This led to widespread street flooding, with water affecting many homes. In addition, multiple vehicles were damaged by the flood waters. This includes a combination of parked vehicles and ones where the driver entered the flood waters.

MCKENZIE COUNTY --- 5.6 S CHARBONNEAU [47.77, -103.75]

06/10/21 21:15 MST			0	Thunderstorm Wind (MG 51 kt)
06/10/21 21:18 MST			0	Source: Public

WILLIAMS COUNTY --- 0.7 S RAY [48.34, -103.17]

06/10/21 21:32 CST			0	Hail (1.25 in)
06/10/21 21:35 CST			0	Source: Fire Department/Rescue

WILLIAMS COUNTY --- 0.5 E BUFORD [48.00, -103.99]

06/10/21 21:36 CST			50K	Thunderstorm Wind (EG 65 kt)
06/10/21 21:40 CST			0	Source: Public

A large pole barn was heavily damaged with one end of the building and an adjacent part of the roof destroyed.

STARK COUNTY --- 2.0 ESE TAYLOR [46.89, -102.38]

06/10/21 21:51 MST			0	Thunderstorm Wind (EG 52 kt)
06/10/21 21:54 MST			0	Source: Public

The public estimated wind gusts to 60 mph.

STARK COUNTY --- 4.2 S RICHARDTON [46.82, -102.31]

06/10/21 21:52 MST			0	Hail (1.00 in)
06/10/21 21:54 MST			0	Source: Public

STARK COUNTY --- 5.5 S RICHARDTON [46.80, -102.31]

06/10/21 21:54 MST			0	Hail (1.00 in)
06/10/21 21:57 MST			0	Source: Public

STARK COUNTY --- 2.8 S RICHARDTON [46.84, -102.31]

Storm Data and Unusual Weather Phenomena - June 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/10/21 21:55 MST		0	Thunderstorm Wind (MG 52 kt)
	06/10/21 21:57 MST		0	Source: Storm Chaser
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WILLIAMS COUNTY --- 7.2 NW (ISN)SLOULIN FLD WIL [48.26, -103.75]	06/10/21 21:56 CST		0	Thunderstorm Wind (MG 71 kt)
	06/10/21 21:58 CST		0	Source: ASOS
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STARK COUNTY --- 7.6 SW ANTELOPE [46.77, -102.31]	06/10/21 21:57 MST		20K	Thunderstorm Wind (EG 61 kt)
	06/10/21 21:59 MST		0	Source: Public
Three inch tree limbs were broken, and some power poles were broken.				
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STARK COUNTY --- 6.9 S RICHARDTON [46.78, -102.31]	06/10/21 21:58 MST		2K	Thunderstorm Wind (EG 56 kt)
	06/10/21 22:01 MST		0	Source: Public
Trees were damaged.				
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WARD COUNTY --- 2.0 ENE KENMARE [48.68, -102.04]	06/10/21 21:58 CST		0	Hail (1.00 in)
	06/10/21 22:02 CST		0	Source: Trained Spotter
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STARK COUNTY --- 4.9 S RICHARDTON [46.81, -102.31]	06/10/21 22:01 MST		0	Thunderstorm Wind (MG 65 kt)
	06/10/21 22:03 MST		0	Source: Storm Chaser
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STARK COUNTY --- 0.8 NE RICHARDTON [46.89, -102.31]	06/10/21 22:05 MST		20K	Thunderstorm Wind (MG 64 kt)
	06/10/21 22:14 MST		0	Source: Storm Chaser
A tree was down in town, along with a power line.				
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WILLIAMS COUNTY --- 0.5 W WILLISTON [48.15, -103.63]	06/10/21 22:09 CST		0.20M	Hail (1.50 in)
	06/10/21 22:27 CST		0	Source: COOP Observer
This is the second in a series of storms to strike the Williston area. Ping pong size hail accompanied this storm, along with very heavy rainfall. Additional damage was done to roofs and vehicles.				
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STARK COUNTY --- TAYLOR [46.90, -102.42]	06/10/21 22:10 MST		5K	Thunderstorm Wind (EG 56 kt)
	06/10/21 22:13 MST		0	Source: Public
One inch diameter tree limbs were broken. Some shingles blew off a structure.				
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WILLIAMS COUNTY --- 2.1 S ALAMO [48.55, -103.47]	06/10/21 22:20 CST		0	Thunderstorm Wind (MG 54 kt)
	06/10/21 22:23 CST		0	Source: Mesonet
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WILLIAMS COUNTY --- 5.7 SW HANKS [48.54, -103.88], 0.5 W ZAHL [48.57, -103.69]	06/10/21 22:20 CST		0.15M	Thunderstorm Wind (EG 70 kt)
	06/10/21 22:23 CST		0	Source: Utility Company
Mountrail-Williams electric recorded 52 poles broken, which includes a one-mile long stretch where every pole was broken southeast of Grenora. In addition, a large tree was blown down in Zahl.				
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WILLIAMS COUNTY --- 0.5 W WILLISTON [48.15, -103.63]	06/10/21 22:27 CST		0	Hail (1.50 in)
	06/10/21 22:30 CST		0	Source: Emergency Manager

Storm Data and Unusual Weather Phenomena - June 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
WILLIAMS COUNTY --- 7.2 NW (ISN)SLOULIN FLD WIL [48.26, -103.75]				
	06/10/21 22:34 CST		0	Thunderstorm Wind (MG 81 kt)
	06/10/21 22:37 CST		0	Source: ASOS
WILLIAMS COUNTY --- 3.5 S HANKS [48.55, -103.80]				
	06/10/21 22:39 CST		0	Thunderstorm Wind (MG 53 kt)
	06/10/21 22:42 CST		0	Source: Mesonet
BURKE COUNTY --- 1.5 ENE BATTLEVIEW [48.59, -102.75]				
	06/10/21 22:46 CST		0	Hail (1.75 in)
	06/10/21 22:49 CST		0	Source: Public
MORTON COUNTY --- 0.7 N HEBRON [46.91, -102.03]				
	06/10/21 23:14 CST		10K	Thunderstorm Wind (EG 61 kt)
	06/10/21 23:17 CST		0	Source: Public
Three inch diameter tree limbs were broken, and some power poles were broken.				
MORTON COUNTY --- 0.7 N HEBRON [46.91, -102.03]				
	06/10/21 23:15 CST		10K	Thunderstorm Wind (EG 56 kt)
	06/10/21 23:18 CST		0	Source: Public
Tree damage occurred.				
MORTON COUNTY --- 1.6 WSW GLEN ULLIN [46.81, -101.86], 1.0 ESE GLEN ULLIN [46.81, -101.81]				
	06/10/21 23:15 CST		0.10M	Thunderstorm Wind (EG 65 kt)
	06/10/21 23:21 CST		0	Source: Public
Damage occurred in and around the city of Glen Ullin. About a mile west of town, outbuildings were severely damaged, and a roof on an industrial building was damaged. In town, A five inch diameter tree was broken over.				
MERCER COUNTY --- 15.2 S GOLDEN VLY [47.06, -102.05]				
	06/10/21 23:30 CST		50K	Thunderstorm Wind (EG 70 kt)
	06/10/21 23:35 CST		0	Source: Public
A recreational vehicle was tipped over, and a small garage was shifted off its foundation.				
MORTON COUNTY --- 11.2 N GLEN ULLIN [46.98, -101.79]				
	06/10/21 23:31 CST		0	Hail (1.25 in)
	06/10/21 23:34 CST		0	Source: Public
MERCER COUNTY --- 0.8 NE GOLDEN VLY [47.29, -102.06]				
	06/10/21 23:38 CST		0	Thunderstorm Wind (MG 50 kt)
	06/10/21 23:40 CST		0	Source: Mesonet
MORTON COUNTY --- NEW SALEM [46.85, -101.42]				
	06/10/21 23:38 CST		0	Thunderstorm Wind (MG 57 kt)
	06/10/21 23:41 CST		0	Source: Department of Highways
MERCER COUNTY --- 17.7 SSW BEULAH [47.02, -101.86]				
	06/10/21 23:43 CST		5K	Thunderstorm Wind (EG 61 kt)
	06/10/21 23:46 CST		0	Source: Public
A chicken coop was destroyed.				
MOUNTRAIL COUNTY --- 3.8 ENE STANLEY [48.35, -102.31]				
	06/10/21 23:43 CST		3K	Thunderstorm Wind (EG 65 kt)
	06/10/21 23:46 CST		0	Source: Emergency Manager

Storm Data and Unusual Weather Phenomena - June 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Six inch diameter branches from a one-hundred year old tree were broken down.				
MERCER COUNTY --- 0.7 S BEULAH [47.26, -101.78]				
	06/10/21 23:47 CST		0	Thunderstorm Wind (MG 61 kt)
	06/10/21 23:50 CST		0	Source: Public
MCLEAN COUNTY --- 4.4 NNW EMMET [47.71, -101.68]				
	06/11/21 00:06 CST		0	Thunderstorm Wind (MG 53 kt)
	06/11/21 00:09 CST		0	Source: Mesonet
WARD COUNTY --- 0.5 W RYDER [47.92, -101.68]				
	06/11/21 00:17 CST		25K	Thunderstorm Wind (EG 61 kt)
	06/11/21 00:21 CST		0	Source: Public
A hopper-style grain bin blew over.				
BURLEIGH COUNTY --- 1.9 E MOFFIT [46.68, -100.24]				
	06/11/21 01:02 CST		0	Thunderstorm Wind (MG 69 kt)
	06/11/21 01:05 CST		0	Source: Mesonet
WARD COUNTY --- 2.0 ESE (MIB)MINOT AFB [48.42, -101.33]				
	06/11/21 01:08 CST		0	Thunderstorm Wind (MG 52 kt)
	06/11/21 01:12 CST		0	Source: AWOS
KIDDER COUNTY --- 2.8 N STEELE MUNI ARPT [46.89, -99.99]				
	06/11/21 01:17 CST		0	Thunderstorm Wind (MG 51 kt)
	06/11/21 01:20 CST		0	Source: Mesonet
KIDDER COUNTY --- 4.3 NNW STEELE [46.91, -99.92]				
	06/11/21 01:37 CST		40K	Thunderstorm Wind (EG 65 kt)
	06/11/21 01:41 CST		0	Source: Public
A pole barn building was blown down.				
MCINTOSH COUNTY --- ASHLEY [46.03, -99.37]				
	06/11/21 01:50 CST		30K	Thunderstorm Wind (EG 65 kt)
	06/11/21 01:54 CST		0	Source: Public
Large trees were blown down.				
BOTTINEAU COUNTY --- 1.1 NW WILLOW CITY [48.61, -100.30]				
	06/11/21 01:56 CST		0	Thunderstorm Wind (EG 52 kt)
	06/11/21 02:00 CST		0	Source: Trained Spotter
A trained spotter estimated thunderstorm wind gusts of 60 mph.				
STUTSMAN COUNTY --- 0.5 E (JMS)JAMESTOWN MUNI [46.93, -98.67]				
	06/11/21 02:33 CST		0	Thunderstorm Wind (MG 56 kt)
	06/11/21 02:36 CST		0	Source: ASOS
STUTSMAN COUNTY --- KENSAL [47.30, -98.73]				
	06/11/21 02:44 CST		2K	Thunderstorm Wind (EG 61 kt)
	06/11/21 02:48 CST		0	Source: Public
A street light was bent at the base.				
LA MOURE COUNTY --- 3.5 S LA MOURE [46.30, -98.29]				
	06/11/21 02:51 CST		50K	Thunderstorm Wind (EG 65 kt)
	06/11/21 02:58 CST		0	Source: Emergency Manager

Storm Data and Unusual Weather Phenomena - June 2021

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A camper was blown onto its side, and a pontoon boat on a lift was rolled over, with the dock damaged.

FOSTER COUNTY --- 1.2 NE GLENFIELD [47.46, -98.55]

	06/11/21 02:53 CST		0	Thunderstorm Wind (MG 54 kt)
	06/11/21 02:55 CST		0	Source: Mesonet

DICKEY COUNTY --- 0.8 NW OAKES [46.14, -98.09]

	06/11/21 03:00 CST		0.20M	Thunderstorm Wind (EG 70 kt)
	06/11/21 03:05 CST		0	Source: Public

Several large tree branches around Oakes were snapped. Garaged doors were blown in, and a home TV tower was bent over.

LA MOURE COUNTY --- 0.8 NE LA MOURE [46.36, -98.29]

	06/11/21 03:00 CST		50K	Thunderstorm Wind (EG 65 kt)
	06/11/21 03:04 CST		0	Source: Public

Tree branches several inches wide punctured a house roof.

LA MOURE COUNTY --- 0.7 S VERONA [46.36, -98.07]

	06/11/21 03:10 CST		5K	Thunderstorm Wind (EG 61 kt)
	06/11/21 03:14 CST		0	Source: Public

A 40 foot tall evergreen was uprooted and fell onto a shed.

A strong short-wave trough moved into the Northern Plains as a slow moving warm front lifted through North Dakota. Very strong instability developed by afternoon, along with increased deep layer shear. The initial storms occurred over west-central and northwest North Dakota. The main concern with these storms was large hail and tornadoes. Multiple tornadoes occurred over western McKenzie County over a similar location, and one occurred in Williams County. Photos of the tornadoes submitted to the National Weather Service indicate that one of them in McKenzie County was quite large. With that said, no damage was reported given the tornadoes occurred in rugged terrain over a rural area, so all were rated EF-U, EF Unknown. As the evening went on, the threats shifted to a mix of strong winds, hail, and heavy rain. The city of Williston was hit the hardest with multiple storms passing over in a short period of time. Flash flooding occurred in the city, which floated vehicles and flooded basements. Hail to the size of tennis balls also fell, causing extensive home and vehicle damage. In addition, very strong winds were reported at the Williston airport, with gusts to 82 mph with one storm, then gusts to 93 mph with the next, causing roof damage. Later in the night the storms became more linear and grew towards the south, while the overall lines moved east. Wind became the primary concern as the storms moved towards the James River Valley where multiple wind damage events occurred. For the whole event, the largest hail reported was the size of tennis balls, in Williston in Williams County. The strongest reported wind gust was 93 mph at the Williston Airport, also in Williams County.