

## Storm Data and Unusual Weather Phenomena - July 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>NORTH DAKOTA, Central and West</b>				
<b>HETTINGER COUNTY --- 7.6 NE NEW ENGLAND [46.61, -102.74]</b>				
	07/02/18 17:10 MST		0	Hail (1.00 in)
	07/02/18 17:13 MST		0	Source: Public
<b>HETTINGER COUNTY --- 7.8 NE NEW ENGLAND [46.62, -102.75]</b>				
	07/02/18 17:16 MST		5K	Hail (1.25 in)
	07/02/18 17:23 MST		0.10M	Source: Public
Multiple crops were destroyed and many trees had leaves stripped.				
<b>HETTINGER COUNTY --- 12.3 NNE REGENT [46.57, -102.41]</b>				
	07/02/18 17:35 MST		0	Hail (1.25 in)
	07/02/18 17:39 MST		0	Source: Trained Spotter
<b>GRANT COUNTY --- 0.5 E ELGIN [46.40, -101.84]</b>				
	07/02/18 18:35 MST		0.25M	Hail (1.75 in)
	07/02/18 18:43 MST		50K	Source: Law Enforcement
Significant damage to vehicles and roofs occurred in the city of Elgin.				
<b>GRANT COUNTY --- 0.8 NW LEITH [46.36, -101.64]</b>				
	07/02/18 18:50 MST		75K	Hail (1.75 in)
	07/02/18 19:02 MST		50K	Source: Public
Large hail occurred for an extended period in the community of Leith, causing damage to homes and vehicles.				
<b>GOLDEN VALLEY COUNTY --- 0.5 W BEACH [46.92, -104.01]</b>				
	07/02/18 23:15 MST		0	Thunderstorm Wind (MG 52 kt)
	07/02/18 23:18 MST		0	Source: Mesonet
<b>GOLDEN VALLEY COUNTY --- 5.7 E SENTINEL BUTTE [46.92, -103.71]</b>				
	07/02/18 23:30 MST		0	Thunderstorm Wind (EG 52 kt)
	07/02/18 23:33 MST		0	Source: Fire Department/Rescue
Local fire department officials estimated thunderstorm wind gusts of 60 mph.				
<b>BOWMAN COUNTY --- 0.5 E BOWMAN [46.18, -103.39]</b>				
	07/03/18 00:25 MST		0	Thunderstorm Wind (EG 52 kt)
	07/03/18 00:28 MST		0	Source: Emergency Manager
Emergency management estimated thunderstorm wind gusts of 60 mph.				
<b>SLOPE COUNTY --- 10.7 WNW AMIDON [46.55, -103.52]</b>				
	07/03/18 00:30 MST		0	Thunderstorm Wind (MG 50 kt)
	07/03/18 00:34 MST		0	Source: Mesonet
<b>BOWMAN COUNTY --- 0.5 E BOWMAN [46.18, -103.39]</b>				
	07/03/18 00:33 MST		0	Hail (1.00 in)
	07/03/18 00:35 MST		0	Source: Public
<b>STARK COUNTY --- (DIK)DICKINSON MUNI [46.80, -102.80]</b>				
	07/03/18 00:58 MST		0	Thunderstorm Wind (MG 50 kt)
	07/03/18 01:02 MST		0	Source: ASOS
<b>ADAMS COUNTY --- 0.7 S HETTINGER ARPT [46.01, -102.65]</b>				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/03/18 01:18 MST		0	Thunderstorm Wind (MG 50 kt)
	07/03/18 01:21 MST		0	Source: ASOS
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<b>HETTINGER COUNTY --- 0.8 NW MOTT [46.39, -102.33]</b>				
	07/03/18 01:22 MST		0	Thunderstorm Wind (MG 53 kt)
	07/03/18 01:24 MST		0	Source: Mesonet
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<b>GRANT COUNTY --- 14.5 N ELGIN MUNI ARPT [46.61, -101.81]</b>				
	07/03/18 02:05 MST		0	Thunderstorm Wind (EG 61 kt)
	07/03/18 02:08 MST		0	Source: Trained Spotter
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A trained spotter estimated thunderstorm wind gusts of 70 mph.				
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<b>GRANT COUNTY --- 1.5 NNE LARK [46.47, -101.39]</b>				
	07/03/18 02:23 MST		0	Thunderstorm Wind (MG 63 kt)
	07/03/18 02:25 MST		0	Source: Mesonet
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<b>MORTON COUNTY --- 1.6 WSW GLEN ULLIN [46.81, -101.86]</b>				
	07/03/18 02:55 CST		0	Thunderstorm Wind (MG 58 kt)
	07/03/18 02:58 CST		0	Source: AWOS
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<b>MORTON COUNTY --- ALMONT [46.73, -101.50]</b>				
	07/03/18 03:20 CST		0	Thunderstorm Wind (MG 64 kt)
	07/03/18 03:23 CST		0	Source: Public
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<b>MORTON COUNTY --- 1.0 W ALMONT [46.73, -101.52]</b>				
	07/03/18 03:21 CST		35K	Thunderstorm Wind (EG 65 kt)
	07/03/18 03:24 CST		0	Source: Public
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A garage had its roof completely torn off and broken into pieces. A garage door was also blown off.				
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<b>MORTON COUNTY --- 5.0 SW JUDSON [46.77, -101.33]</b>				
	07/03/18 03:23 CST		0	Thunderstorm Wind (MG 63 kt)
	07/03/18 03:26 CST		0	Source: Mesonet
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<b>MORTON COUNTY --- 6.2 S ALMONT [46.64, -101.50]</b>				
	07/03/18 03:25 CST		0.15M	Thunderstorm Wind (EG 70 kt)
	07/03/18 03:28 CST		0	Source: Public
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A large well-constructed pole barn was destroyed with multiple pieces of farm equipment inside.				
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<b>SIOUX COUNTY --- 9.1 N SELFRIDGE [46.16, -100.90]</b>				
	07/03/18 03:25 MST		0	Thunderstorm Wind (MG 51 kt)
	07/03/18 03:28 MST		0	Source: Mesonet
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<b>MORTON COUNTY --- 0.8 NW NEW SALEM [46.86, -101.43]</b>				
	07/03/18 03:33 CST		0	Thunderstorm Wind (MG 56 kt)
	07/03/18 03:36 CST		0	Source: Mesonet
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<b>MORTON COUNTY --- 0.5 E MANDAN [46.83, -100.89]</b>				
	07/03/18 04:00 CST		1K	Thunderstorm Wind (EG 56 kt)
	07/03/18 04:04 CST		0	Source: Public
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A tree blew over.				
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<b>BURLEIGH COUNTY --- 0.7 S (BIS)BISMARCK MUNI A [46.77, -100.75]</b>				
	07/03/18 04:14 CST		0	Thunderstorm Wind (MG 54 kt)
	07/03/18 04:17 CST		0	Source: Official NWS Observations

## Storm Data and Unusual Weather Phenomena - July 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>MORTON COUNTY --- 0.5 E MANDAN MUNI ARPT [46.77, -100.89]</b>				
	07/03/18 04:15 CST		0	Thunderstorm Wind (MG 57 kt)
	07/03/18 04:19 CST		0	Source: AWOS
<b>BURLEIGH COUNTY --- 1.2 SW BISMARCK [46.79, -100.79]</b>				
	07/03/18 04:18 CST		1K	Thunderstorm Wind (EG 56 kt)
	07/03/18 04:21 CST		0	Source: Public
A medium size tree blew over.				
<b>EMMONS COUNTY --- 0.2 NNE KINTYRE [46.55, -99.95]</b>				
	07/03/18 04:30 CST		0.30M	Thunderstorm Wind (EG 74 kt)
	07/03/18 04:35 CST		0	Source: Broadcast Media
Widespread damage occurred in the Kintyre area. A farm house about one mile northeast of town was extensively damaged. In the farmyard, three buildings sustained major damage with many broken trees. In town, many trees were damaged, with many evergreen trees snapped off about ten feet off the ground. Other trees were uprooted.				
<b>KIDDER COUNTY --- 15.9 S DAWSON [46.64, -99.75]</b>				
	07/03/18 04:45 CST		15K	Thunderstorm Wind (EG 61 kt)
	07/03/18 04:48 CST		0	Source: Trained Spotter
Numerous large branches were snapped in the yard. Some trees were uprooted.				
<b>BURLEIGH COUNTY --- 1.9 E MOFFIT [46.68, -100.24]</b>				
	07/03/18 04:47 CST		0	Thunderstorm Wind (MG 79 kt)
	07/03/18 04:50 CST		0	Source: Mesonet
<b>EMMONS COUNTY --- 0.3 ESE WESTFIELD [46.03, -100.19]</b>				
	07/03/18 04:50 CST		90K	Thunderstorm Wind (EG 70 kt)
	07/03/18 04:58 CST		0	Source: Public
The Bakker School near Westfield had its roof torn off, including some rafters. Sections of the roof blew across the road. The roof appears to have been added onto the structure which may have originally had a flat roof. The interior of the school suffered water damage after the roof was torn off.				
<b>MCINTOSH COUNTY --- 6.7 ENE DANZIG [46.18, -99.35]</b>				
	07/03/18 05:00 CST		0	Thunderstorm Wind (EG 52 kt)
	07/03/18 05:04 CST		0	Source: Trained Spotter
A trained spotter estimated thunderstorm wind gusts of 60 mph.				
<b>DICKEY COUNTY --- 11.6 W MERRICOURT [46.22, -98.99]</b>				
	07/03/18 05:19 CST		0	Hail (1.00 in)
	07/03/18 05:22 CST		0	Source: Public
<b>STUTSMAN COUNTY --- 6.5 NW STREETER [46.72, -99.44]</b>				
	07/03/18 05:46 CST		0	Thunderstorm Wind (MG 53 kt)
	07/03/18 05:49 CST		0	Source: Mesonet
<b>A strong short-wave trough moved into an area of very high instability over the Northern Plains. Initially, one long-lived supercell thunderstorm developed over southwest North Dakota, and tracked east-southeast producing large hail. The largest hail was golf ball size, and fell over the communities of Elgin and Leith in Grant County. Late at night a line of severe thunderstorms producing damaging winds tracked eastward across southwest and south central North Dakota, which caused extensive damage to many structures. The strongest thunderstorm wind gust was 91 mph, and occurred near Moffit in Burleigh County.</b>				
<b>BOWMAN COUNTY --- 1.6 ESE HALEY [45.96, -103.09]</b>				
	07/03/18 20:00 MST		0	Thunderstorm Wind (EG 52 kt)
	07/03/18 20:03 MST		0	Source: Law Enforcement
Law Enforcement estimated thunderstorm wind gusts of 60 mph.				

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<b>MCKENZIE COUNTY --- 27.0 S FAIRVIEW [47.46, -104.00]</b>				
	07/03/18 21:00 MST		0	Thunderstorm Wind (EG 52 kt)
	07/03/18 21:03 MST		0	Source: Public
The public estimated thunderstorm wind gusts of 60 mph.				
<b>GRANT COUNTY --- 4.9 N HEIL [46.45, -101.68]</b>				
	07/03/18 21:04 MST		0	Hail (1.00 in)
	07/03/18 21:06 MST		0	Source: Public
<b>SIOUX COUNTY --- 0.7 N SELFRIDGE [46.04, -100.93]</b>				
	07/03/18 22:17 MST		0	Hail (1.00 in)
	07/03/18 22:20 MST		0	Source: Public
<b>SIOUX COUNTY --- 9.1 N SELFRIDGE [46.16, -100.90]</b>				
	07/03/18 22:25 MST		0	Thunderstorm Wind (MG 55 kt)
	07/03/18 22:28 MST		0	Source: Mesonet
<b>MORTON COUNTY --- 5.9 ENE SWEET BRIAR [46.87, -101.07]</b>				
	07/03/18 22:50 CST		0	Thunderstorm Wind (EG 52 kt)
	07/03/18 22:53 CST		0	Source: Trained Spotter
A trained spotter reported thunderstorm wind gusts of 60 mph.				
<b>BURLEIGH COUNTY --- 2.3 SSE WILTON [47.14, -100.78]</b>				
	07/03/18 23:00 CST		0	Thunderstorm Wind (MG 58 kt)
	07/03/18 23:02 CST		0	Source: Public
<b>MORTON COUNTY --- MANDAN [46.83, -100.90]</b>				
	07/03/18 23:04 CST		0	Hail (0.75 in)
	07/03/18 23:08 CST		0	Source: Public
<b>MCLEAN COUNTY --- 1.2 SE WILTON [47.16, -100.78]</b>				
	07/03/18 23:07 CST		20K	Thunderstorm Wind (EG 65 kt)
	07/03/18 23:14 CST		0	Source: Public
Large trees were uprooted in the city of Wilton.				
<b>BURLEIGH COUNTY --- 1.7 NW BISMARCK [46.82, -100.79]</b>				
	07/03/18 23:10 CST		0	Hail (1.00 in)
	07/03/18 23:13 CST		0	Source: NWS Employee
<b>BURLEIGH COUNTY --- 2.1 NNW BISMARCK [46.83, -100.78]</b>				
	07/03/18 23:12 CST		0	Hail (0.75 in)
	07/03/18 23:15 CST		0	Source: Public
<b>BURLEIGH COUNTY --- 3.6 NE BISMARCK [46.84, -100.72]</b>				
	07/03/18 23:14 CST		0	Hail (0.88 in)
	07/03/18 23:18 CST		0	Source: Public
<b>LOGAN COUNTY --- 0.7 N NAPOLEON [46.51, -99.77]</b>				
	07/04/18 00:30 CST		30K	Lightning
	07/04/18 00:31 CST		0	Source: Law Enforcement
Lightning struck a house and started a fire.				
<b>EMMONS COUNTY --- 4.8 SW TEMVIK [46.32, -100.32], 4.3 SE TEMVIK [46.33, -100.18], 3.7 SE WESTFIELD [45.99, -100.14], 5.5 WSW WESTFIELD [46.00, -100.31]</b>				

## Storm Data and Unusual Weather Phenomena - July 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/04/18 00:35 CST		15K	Flash Flood (due to Heavy Rain)
	07/04/18 03:35 CST		0	Source: Law Enforcement
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<b>WELLS COUNTY --- 3.9 NE HARVEY [47.80, -99.83]</b>				
	07/04/18 00:35 CST		60K	Thunderstorm Wind (EG 70 kt)
	07/04/18 00:43 CST		0	Source: Public
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A well constructed wooden barn that was recently built was destroyed. Other farm buildings were damaged. A grain auger was toppled, and a large spruce tree was uprooted.				
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<b>MCINTOSH COUNTY --- 4.2 NW VENTURA [46.05, -99.60]</b>				
	07/04/18 00:40 CST		0	Hail (1.00 in)
	07/04/18 00:43 CST		0	Source: Trained Spotter
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<b>MCINTOSH COUNTY --- 7.3 NE ZEELAND [46.05, -99.73]</b>				
	07/04/18 01:42 CST		0	Thunderstorm Wind (MG 55 kt)
	07/04/18 01:44 CST		0	Source: Mesonet
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A shortwave trough approached the area and interacted with a surface boundary which led to thunderstorm development during the late evening and overnight hours. Ample deep layer shear and enhanced instability were present. Storms initiated over western North Dakota, then gradually spread eastward overnight. Hail size remained on the low end of severe criteria, with multiple reports of one inch diameter hail. The strongest wind occurred in Wells County, where 80 mph wind gusts damaged a farmstead. Also, heavy rains occurred over portions of Emmons County, producing flash flooding in the Westfield and Linton areas.				
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<b>SIOUX COUNTY --- 9.1 N SELFRIDGE [46.16, -100.90]</b>				
	07/07/18 23:00 MST		0	Thunderstorm Wind (MG 65 kt)
	07/07/18 23:04 MST		0	Source: Mesonet
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<b>EMMONS COUNTY --- 12.8 WNW HAZELTON [46.53, -100.54]</b>				
	07/08/18 00:31 CST		0.20M	Thunderstorm Wind (EG 78 kt)
	07/08/18 00:38 CST		0	Source: Law Enforcement
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Extensive wind damage occurred from Badger Bay to just north of the Hazelton Recreational Area. At Badger Bay, a 5th wheel camper was tipped over. About five miles north of Badger Bay an unoccupied mobile home was tipped over, rolled, and destroyed. To the north of Hazelton Recreation Area, a pole barn and several smaller sheds were destroyed. Debris was blown 1/4 mile to the northeast.				
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<b>MORTON COUNTY --- 0.8 NW FT RICE [46.53, -100.59]</b>				
	07/08/18 00:32 CST		0.20M	Thunderstorm Wind (EG 74 kt)
	07/08/18 00:40 CST		0	Source: Emergency Manager
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Several garages were ripped from foundations in the Fort Rice area. An unoccupied mobile home was blown down a hill, and a travel trailer recreational vehicle was blown into the Missouri River.				
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<b>EMMONS COUNTY --- 3.1 SSW TEMVIK [46.33, -100.28]</b>				
	07/08/18 00:35 CST		0	Thunderstorm Wind (MG 50 kt)
	07/08/18 00:38 CST		0	Source: Mesonet
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<b>BURLEIGH COUNTY --- 5.7 W MOFFIT [46.68, -100.40]</b>				
	07/08/18 01:00 CST		0.15M	Thunderstorm Wind (EG 78 kt)
	07/08/18 01:10 CST		0	Source: Law Enforcement
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Many large trees were uprooted. Power lines were down, and multiple buildings were heavily damaged.				
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<b>BURLEIGH COUNTY --- 0.5 W STERLING [46.82, -100.29]</b>				
	07/08/18 01:18 CST		0	Thunderstorm Wind (MG 61 kt)
	07/08/18 01:22 CST		0	Source: Mesonet
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<b>KIDDER COUNTY --- 3.0 NNW ROBINSON [47.19, -99.79]</b>				

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	07/08/18 01:50 CST		0	Thunderstorm Wind (MG 80 kt)
	07/08/18 01:53 CST		0	Source: Public
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<b>WELLS COUNTY --- 0.8 NW CATHAY [47.56, -99.41]</b>				
	07/08/18 02:23 CST		0	Thunderstorm Wind (MG 56 kt)
	07/08/18 02:26 CST		0	Source: Mesonet
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<b>WELLS COUNTY --- 6.1 NE CATHAY [47.62, -99.32]</b>				
	07/08/18 02:25 CST		0	Thunderstorm Wind (MG 79 kt)
	07/08/18 02:28 CST		0	Source: Public
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<p><b>A strong short wave trough pushed into southwest North Dakota during the late evening hours of July 7 where it encountered a moisture rich atmosphere with very strong instability. Two areas of thunderstorms developed producing severe wind gusts, with one storm becoming long lived as it tracked from far southwest North Dakota into the central part of the state. As moisture and instability increased towards the east, the severe thunderstorm winds increased resulting in many incidents of damage along its path. The strongest wind gust of 92 mph was measured in Kidder County near Robinson.</b></p>				
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<b>DICKEY COUNTY --- 1.5 SSW OAKES MUNI ARPT [46.08, -98.09]</b>				
	07/08/18 17:39 CST		0	Thunderstorm Wind (MG 50 kt)
	07/08/18 17:43 CST		0	Source: Mesonet
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<b>DICKEY COUNTY --- 0.5 E OAKES MUNI ARPT [46.10, -98.07]</b>				
	07/08/18 17:40 CST		15K	Thunderstorm Wind (EG 65 kt)
	07/08/18 17:44 CST		0.10M	Source: Emergency Manager
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<p>Two power poles were snapped, and crops were shredded and destroyed.</p>				
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<b>DICKEY COUNTY --- 0.5 W OAKES MUNI ARPT [46.10, -98.09]</b>				
	07/08/18 17:40 CST		0	Hail (1.25 in)
	07/08/18 17:44 CST		0	Source: Public
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<b>DICKEY COUNTY --- 1.5 SSW OAKES MUNI ARPT [46.08, -98.09]</b>				
	07/08/18 17:40 CST		0	Hail (2.75 in)
	07/08/18 17:42 CST		0.15M	Source: Public
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<p>The bean and corn crop in this area were shredded.</p>				
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<b>DICKEY COUNTY --- 1.5 SSW OAKES MUNI ARPT [46.08, -98.09]</b>				
	07/08/18 17:40 CST		0.15M	Thunderstorm Wind (EG 74 kt)
	07/08/18 17:43 CST		0	Source: Public
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<p>A center-pivot irrigation system was blown completely over. Large trees were uprooted.</p>				
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<b>DICKEY COUNTY --- 2.1 SSW OAKES MUNI ARPT [46.07, -98.09]</b>				
	07/08/18 17:40 CST		0	Hail (1.75 in)
	07/08/18 17:44 CST		0	Source: Public
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<b>DICKEY COUNTY --- 1.6 ENE OAKES MUNI ARPT [46.11, -98.05]</b>				
	07/08/18 17:42 CST		0	Hail (1.75 in)
	07/08/18 17:44 CST		0	Source: Public
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<p><b>Thunderstorms developed along a surface boundary that was draped across eastern and central parts of North Dakota. One thunderstorm became severe over Dickey County, near Oakes, producing extensive damage in that area. The largest hail was the size of a baseball, and the strongest wind gust was estimated to be 85 mph.</b></p>				
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<b>WILLIAMS COUNTY --- 6.2 SW GRENORA [48.56, -104.03]</b>				
	07/09/18 20:15 CST		0	Hail (1.75 in)
	07/09/18 20:18 CST		0	Source: Trained Spotter
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<b>WILLIAMS COUNTY --- 9.1 SSW GRENORA [48.51, -104.04]</b>				

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	07/09/18 20:15 CST		0	Hail (1.00 in)
	07/09/18 20:16 CST		0	Source: Trained Spotter
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<b>WILLIAMS COUNTY --- 3.1 NW (ISN)SLOULIN FLD WIL [48.21, -103.70]</b>	07/09/18 21:15 CST		0	Funnel Cloud
	07/09/18 21:17 CST		0	Source: Fire Department/Rescue
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<b>WILLIAMS COUNTY --- 3.8 ENE (ISN)SLOULIN FLD WIL [48.21, -103.58]</b>	07/09/18 21:25 CST		0	Hail (1.00 in)
	07/09/18 21:28 CST		0	Source: Trained Spotter
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<b>WILLIAMS COUNTY --- 0.8 NNE SPRING BROOK [48.26, -103.46]</b>	07/09/18 21:38 CST		0	Hail (1.00 in)
	07/09/18 21:41 CST		0	Source: Broadcast Media
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<b>WILLIAMS COUNTY --- 8.4 SW BONETRAILL [48.35, -104.00]</b>	07/09/18 21:40 CST		10K	Hail (1.75 in)
	07/09/18 21:47 CST		0	Source: Trained Spotter
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A window was broken on the north side of a house. That allowed wind and water into the home.				
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<b>WILLIAMS COUNTY --- 11.8 SSW BONETRAILL [48.26, -103.94]</b>	07/09/18 21:50 CST		0	Hail (2.50 in)
	07/09/18 21:54 CST		0	Source: Public
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<b>WILLIAMS COUNTY --- 0.7 N WILLISTON [48.16, -103.62]</b>	07/09/18 22:26 CST		0	Hail (1.75 in)
	07/09/18 22:28 CST		0	Source: Public
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<b>MCKENZIE COUNTY --- 0.5 E ALEXANDER [47.85, -103.64]</b>	07/09/18 22:30 MST		0	Hail (1.00 in)
	07/09/18 22:33 MST		0	Source: Public
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<b>WILLIAMS COUNTY --- 6.2 WSW (ISN)SLOULIN FLD WIL [48.16, -103.78]</b>	07/09/18 22:30 CST		0	Hail (1.75 in)
	07/09/18 22:32 CST		0	Source: Public
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<b>WILLIAMS COUNTY --- 0.5 E (ISN)SLOULIN FLD WIL [48.18, -103.64]</b>	07/09/18 22:31 CST		0	Thunderstorm Wind (MG 54 kt)
	07/09/18 22:34 CST		0	Source: ASOS
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<b>MCKENZIE COUNTY --- 0.8 SW ARNEGARD [47.81, -103.44]</b>	07/09/18 22:34 MST		0	Thunderstorm Wind (EG 52 kt)
	07/09/18 22:36 MST		0	Source: Law Enforcement
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<b>MCKENZIE COUNTY --- 1.5 SSW WATFORD CITY [47.78, -103.30], 1.3 S WATFORD CITY [47.78, -103.28]</b>	07/09/18 22:45 MST	1	3.50M	Tornado (EF2, L: 0.53 mi , W: 400 yd)
	07/09/18 22:48 MST	28	0	Source: NWS Storm Survey

Law Enforcement estimated 60 mph thunderstorm wind gusts.

## Storm Data and Unusual Weather Phenomena - July 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>About 135 people were displaced from their homes. One fatality occurred and 28 people were injured, about 13 of them seriously. Based on the damage the tornado was rated EF2 and from that winds were estimated to have been around 127 mph.</p> <p>This tornado developed just to the west of a large recreational vehicle, camper, and mobile home park on the southwest side of Watford City. The tornado passed through the park causing extensive and severe damage to over 100 recreational vehicles, campers, and single wide manufactured homes. Power poles were snapped and other non-occupied buildings were damaged and some destroyed, including a well-built pole barn. Many vehicles were damaged, some totaled.</p> <p>Direct Fatalities: MOMH</p>				
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<b>WILLIAMS COUNTY --- 1.1 NE WILLISTON [48.16, -103.60]</b>				
	07/09/18 22:48 CST		0	Hail (1.25 in)
	07/09/18 22:51 CST		0	Source: Emergency Manager
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<b>MCKENZIE COUNTY --- 0.9 E WATFORD CITY [47.80, -103.26]</b>				
	07/09/18 22:55 MST		0	Thunderstorm Wind (MG 51 kt)
	07/09/18 22:58 MST		0	Source: AWOS
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<b>MCCLEAN COUNTY --- 0.5 W GARRISON [47.65, -101.43]</b>				
	07/10/18 01:43 CST		0	Thunderstorm Wind (MG 52 kt)
	07/10/18 01:46 CST		0	Source: ASOS
<p><b>Severe thunderstorms moved from southeast Saskatchewan into northeast Montana, and then into northwest North Dakota where the environment was rich in low level moisture with enhanced deep and low level shear. Initially, supercell thunderstorms produced very large hail up to the size of tennis balls over Williams County before transitioning to a hail and wind threat with reported wind gusts around 62 mph as the storms approached McKenzie County. A mix of severe wind and hail occurred in McKenzie County before a tornado developed along a line of strong wind just to the west of a large recreational vehicle, camper, and mobile home park on the southwest side of Watford City. About 135 people were displaced from their homes. One fatality occurred and 28 people were injured, about 13 of them seriously. Based on the damage the tornado was rated EF2 and from that winds were estimated to have been around 127 mph. The tornado passed through the park causing extensive and severe damage to over 100 recreational vehicles, campers, and single wide manufactured homes. Power poles were snapped and other non-occupied buildings were damaged and some destroyed, including a well-built pole barn. Many vehicles were damaged, some totaled.</b></p>				
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<b>DIVIDE COUNTY --- 3.7 W FORTUNA [48.91, -103.78]</b>				
	07/10/18 20:45 CST		0.15M	Thunderstorm Wind (EG 74 kt)
	07/10/18 20:50 CST		0	Source: Fire Department/Rescue
<p>The top of the local grain elevator main annex where the leg was located was blown off, damaging additional parts of the elevator.</p>				
<hr/>				
<b>DIVIDE COUNTY --- 7.3 NNE WESTBY [48.97, -104.00]</b>				
	07/10/18 20:56 CST		0	Thunderstorm Wind (MG 51 kt)
	07/10/18 20:59 CST		0	Source: Mesonet
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<b>BURKE COUNTY --- 10.2 E POWERS LAKE [48.55, -102.41]</b>				
	07/10/18 21:58 CST		0	Thunderstorm Wind (MG 61 kt)
	07/10/18 22:01 CST		0	Source: Trained Spotter
<p><b>A line of severe thunderstorms producing damaging winds moved into far northwest North Dakota from Montana, and pushed easterly across Divide and Burke counties. The thunderstorms then weakened as they continued to push east. The strongest winds were estimated to be 85 mph at Fortuna in Divide County, where the local grain elevator was damaged.</b></p>				
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<b>DUNN COUNTY --- 0.5 NE DODGE [47.30, -102.19], 0.4 E DODGE [47.30, -102.19]</b>				
	07/14/18 14:12 MST		60K	Tornado (EF1, L: 0.33 mi , W: 100 yd)
	07/14/18 14:17 MST		10K	Source: NWS Storm Survey
<p>A tornado formed on the east edge of Dodge, near Spring Creek, and traveled southeast crossing Highway 200 before moving into a farmstead. Two outbuildings were destroyed, some trees were snapped, and crops were damaged. No injuries or deaths occurred. The damage corresponded to EF1 and from that winds were estimated to have been around 97 mph. This was the first of two tornadoes, minutes apart and from the same parent thunderstorm, in Dunn County this day.</p>				
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<b>DUNN COUNTY --- 4.2 S DODGE [47.24, -102.19], 5.2 S DODGE [47.23, -102.19]</b>				



## Storm Data and Unusual Weather Phenomena - July 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/14/18 14:26 MST		0	Tornado (EF0, L: 1.01 mi , W: 300 yd)
	07/14/18 14:39 MST		5K	Source: NWS Storm Survey

The tornado formed south of Dodge and passed over a recently tilled field, which made it visible 45 miles away. About 35 hay bales were displaced. There was no other damage. The tornado was rated EF0 with estimated wind speeds around 80 mph. This was the second of two tornadoes, minutes apart and from the same parent thunderstorm, in Dunn County this day.

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### MERCER COUNTY --- 9.0 S GOLDEN VLY [47.15, -102.06]

07/14/18 15:39 CST	0	Funnel Cloud
07/14/18 15:41 CST	0	Source: Trained Spotter

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### PIERCE COUNTY --- 0.8 W RUGBY [48.37, -100.00]

07/14/18 16:45 CST	0	Hail (1.00 in)
07/14/18 16:48 CST	0	Source: Public

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### MORTON COUNTY --- 8.3 WSW ST ANTHONY [46.57, -101.08]

07/14/18 19:00 CST	8K	Thunderstorm Wind (EG 52 kt)
07/14/18 19:03 CST	0	Source: NWS Employee

A cluster of large branches were down on a road.

A cold front moving through North Dakota combined with an upper level short wave trough to produce thunderstorms in a moisture rich environment over portions of western and central North Dakota. One storm became tornadic over Dunn County, producing two tornadoes, with one of the tornadoes producing EF1 damage.



Franklin J. Balak Jr.

*Second of two tornadoes in Dunn County, North Dakota, minutes apart and from the same parent thunderstorm, July 14, 2018. Hay bales were displaced and destroyed near Dodge and led to EF0 rating. Photo courtesy Franklin J Balak Jr.*

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### MOUNTRAIL COUNTY --- 12.7 NW SANISH [48.13, -102.73]

07/18/18 13:52 CST	0	Hail (1.00 in)
07/18/18 13:55 CST	0	Source: Public

Thunderstorms developed over parts of western and central North Dakota as a weak upper level low passed through the region. One

## Storm Data and Unusual Weather Phenomena - July 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
thunderstorm became severe over Mountrail County producing one inch diameter hail.				
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<b>DICKEY COUNTY --- 4.5 WNW ELLENDALE ARPT [46.04, -98.61], 3.8 ENE ELLENDALE ARPT [46.05, -98.45], 4.8 SE ELLENDALE [45.95, -98.45], 4.9 SW ELLENDALE [45.94, -98.58]</b>				
	07/19/18 01:00 CST		0.50M	Flash Flood (due to Heavy Rain)
	07/19/18 06:30 CST		0	Source: Emergency Manager
<p>Rain amounts across the Ellendale area ranged from five to eight inches from slow moving rain showers and low-topped thunderstorms. The bulk of the rain fell in about three hours with the rain event lasting about six hours. This led to runoff that flooded basements with up to four feet of water and caused sanitary sewer systems to back up. One basement wall collapsed. A total of 24 homes were affected along with two churches and one apartment complex.</p>				
<p><b>Rain showers and low-topped thunderstorms produced torrential rain over south central Dickey County leading to flash flooding and sanitary sewer system backups in the city of Ellendale. The resulting flooding impacted 24 homes, two churches, and an apartment complex. Parts of Ellendale were flooded with several feet of water.</b></p>				
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<b>LOGAN COUNTY --- 1.4 N NAPOLEON [46.52, -99.77]</b>				
	07/19/18 16:02 CST		0	Hail (1.00 in)
	07/19/18 16:05 CST		0	Source: Law Enforcement
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<b>GRANT COUNTY --- 15.4 S LEITH [46.13, -101.68]</b>				
	07/19/18 17:20 MST		0	Hail (1.25 in)
	07/19/18 17:23 MST		0	Source: Trained Spotter
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<b>WARD COUNTY --- 0.8 NNE DES LACS [48.26, -101.56]</b>				
	07/19/18 18:54 CST		0	Hail (0.88 in)
	07/19/18 18:56 CST		0	Source: Public
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<b>WELLS COUNTY --- 3.6 NE HEIMDAL [47.84, -99.57]</b>				
	07/19/18 19:25 CST		0	Hail (0.75 in)
	07/19/18 19:27 CST		0	Source: Trained Spotter
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<b>SHERIDAN COUNTY --- 6.9 N PICKARDVILLE [47.57, -100.57]</b>				
	07/19/18 20:00 CST		0	Hail (0.88 in)
	07/19/18 20:03 CST		0	Source: Trained Spotter
<p>A weak and slow moving upper level low continued to move through the region resulting in thunderstorms developing in the afternoon and evening hours. With ample moisture in place a few thunderstorms produced large hail. The largest hail fell in Grant County, and was the size of a half-dollar.</p>				
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<b>WILLIAMS COUNTY --- 3.9 SW BONETRAILL [48.38, -103.91]</b>				
	07/21/18 14:37 CST		0	Hail (0.88 in)
	07/21/18 14:39 CST		0	Source: Emergency Manager
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<b>WILLIAMS COUNTY --- 7.7 WNW TRENTON [48.13, -103.99]</b>				
	07/21/18 16:54 CST		0	Hail (1.00 in)
	07/21/18 16:57 CST		0	Source: Public
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<b>MCKENZIE COUNTY --- 1.4 N WATFORD CITY [47.82, -103.28]</b>				
	07/21/18 17:10 MST		0	Hail (1.75 in)
	07/21/18 17:14 MST		0	Source: Public
<hr/>				
<b>WILLIAMS COUNTY --- 0.5 E TRENTON [48.07, -103.84]</b>				
	07/21/18 17:13 CST		0	Funnel Cloud
	07/21/18 17:15 CST		0	Source: Fire Department/Rescue
<hr/>				
<b>SLOPE COUNTY --- 12.5 N MARMARTH [46.48, -103.88]</b>				
	07/21/18 17:15 MST		0	Hail (1.75 in)
	07/21/18 17:17 MST		0	Source: Public

## Storm Data and Unusual Weather Phenomena - July 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>WILLIAMS COUNTY --- 2.4 ENE TRENTON [48.08, -103.80]</b>				
	07/21/18 17:21 CST	0		Hail (1.75 in)
	07/21/18 17:24 CST	0		Source: Emergency Manager
<b>MCKENZIE COUNTY --- WATFORD CITY [47.80, -103.28]</b>				
	07/21/18 17:25 MST	0		Hail (1.00 in)
	07/21/18 17:27 MST	0		Source: Broadcast Media
<b>MCKENZIE COUNTY --- 7.7 S WATFORD CITY [47.69, -103.25]</b>				
	07/21/18 17:41 MST	0		Hail (0.75 in)
	07/21/18 17:47 MST	0		Source: Public
<b>MCKENZIE COUNTY --- 0.7 N MANDAREE [47.73, -102.68]</b>				
	07/21/18 17:49 MST	0		Hail (1.00 in)
	07/21/18 17:52 MST	0		Source: Emergency Manager
<b>BILLINGS COUNTY --- 10.1 SW SULLY SPGS [46.75, -103.52]</b>				
	07/21/18 17:50 MST	0		Hail (1.75 in)
	07/21/18 17:53 MST	0		Source: Public
<b>DUNN COUNTY --- 7.0 SW MANNING [47.17, -102.89]</b>				
	07/21/18 18:22 MST	0		Thunderstorm Wind (MG 57 kt)
	07/21/18 18:24 MST	0		Source: Mesonet
<p><b>A cold front pushing through the region interacted with a narrow instability axis situated over eastern Montana and the western Dakotas, resulting in thunderstorm development. Some storms became severe over western North Dakota producing large hail and strong winds. The largest hail was golf ball size, and was reported in Billings, McKenzie, Williams, and Slope Counties. The strongest thunderstorm wind gust was 66 mph, and occurred in Dunn County.</b></p>				
<b>STARK COUNTY --- 1.2 SW GLADSTONE [46.86, -102.57]</b>				
	07/24/18 21:18 MST	0		Hail (0.75 in)
	07/24/18 21:20 MST	0		Source: Public
<b>BURLEIGH COUNTY --- 4.2 N BISMARCK [46.86, -100.78]</b>				
	07/24/18 23:10 CST	0		Hail (0.75 in)
	07/24/18 23:13 CST	0		Source: Public
<p><b>Isolated thunderstorms developed in the afternoon and evening hours ahead of an approaching short-wave trough. Penny-size hail was reported with a few of these storms.</b></p>				
<b>SHERIDAN COUNTY --- 11.8 N DENHOFF [47.65, -100.26]</b>				
	07/29/18 15:36 CST	0		Hail (1.00 in)
	07/29/18 15:38 CST	0		Source: Public
<p><b>An upper level trough dropping through the area resulted in scattered thunderstorms across much of western and central North Dakota. One storm became severe over Sheridan County, producing one-inch diameter hail.</b></p>				