

Storm Data and Unusual Weather Phenomena - May 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
NORTH DAKOTA, Central and West				
STARK COUNTY --- 2.1 SSE TAYLOR [46.87, -102.41]				
	05/07/18 13:20 MST	0		Hail (0.75 in)
	05/07/18 13:25 MST	0		Source: Trained Spotter
STARK COUNTY --- 0.7 N RICHARDTON [46.89, -102.32]				
	05/07/18 13:45 MST	0		Hail (0.75 in)
	05/07/18 13:48 MST	0		Source: Public
GRANT COUNTY --- CARSON [46.42, -101.57]				
	05/07/18 15:50 MST	0		Hail (0.88 in)
	05/07/18 15:53 MST	0		Source: Emergency Manager
GRANT COUNTY --- 0.5 E CARSON [46.42, -101.56]				
	05/07/18 16:00 MST	0		Hail (1.00 in)
	05/07/18 16:02 MST	0		Source: Emergency Manager
<p>An upper level low moving into the Northern Plains resulted in thunderstorms developing over parts of western and central North Dakota. One storm became severe and produced one inch diameter hail over Grant County.</p>				
SIOUX COUNTY --- 1.0 W SELFRIDGE [46.03, -100.95]				
	05/15/18 14:10 MST	0		Hail (1.00 in)
	05/15/18 14:13 MST	0		Source: Public
<p>Thunderstorms developed during the afternoon and early evening of May 5 over southern North Dakota ahead of a deepening low pressure system. One thunderstorm became severe over Sioux County and produced one inch diameter hail.</p>				
MCHENRY COUNTY --- 1.4 N MILROY [48.45, -100.53]				
	05/17/18 08:30 CST	0		Hail (1.00 in)
	05/17/18 08:33 CST	0		Source: Public
SIOUX COUNTY --- 1.4 N SELFRIDGE [46.05, -100.93]				
	05/17/18 14:10 MST	0		Hail (1.00 in)
	05/17/18 14:13 MST	0		Source: Public
MCINTOSH COUNTY --- 2.8 S ASHLEY [45.99, -99.37]				
	05/17/18 14:45 CST	0		Hail (1.75 in)
	05/17/18 14:49 CST	0		Source: Public
<p>A frontal boundary draped through North Dakota served as the focal point of two rounds of isolated severe hail. The first round of severe weather occurred in the morning in the north. The second round developed in the afternoon and produced large hail in the south.</p>				
ADAMS COUNTY --- 8.3 NE HETTINGER ARPT [46.09, -102.51]				
	05/22/18 17:00 MST	0		Hail (1.00 in)
	05/22/18 17:03 MST	0		Source: Public
GRANT COUNTY --- 3.6 WNW CARSON [46.44, -101.64]				
	05/22/18 17:03 MST	0		Hail (1.25 in)
	05/22/18 17:06 MST	0		Source: Public
ADAMS COUNTY --- 2.9 NNW HAYNES [46.01, -102.49], 1.9 NNW HAYNES [46.00, -102.48], 1.7 N HAYNES [45.99, -102.46], 2.4 N HAYNES [46.01, -102.46]				
	05/22/18 20:00 MST	30K		Flash Flood (due to Heavy Rain)
	05/22/18 22:00 MST	0		Source: Law Enforcement

Deep water covered US Highway 12 for two miles in length near the community of Haynes.

Storm Data and Unusual Weather Phenomena - May 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
----------	-----------	-------------------	---------------------	------------------------

A moderately unstable but very moist atmosphere was in place over southwest North Dakota when numerous thunderstorms developed in the late afternoon. Initially, large hail was the main threat, with the largest hail being half-dollar size falling in Grant County. The main threat then shifted towards heavy rainfall, with flash flooding occurring near the town of Haynes in Adams County, where US Highway 12 was closed for approximately two miles due to deep water over the road.

BILLINGS COUNTY --- 2.8 NW SULLY SPGS [46.90, -103.44]

05/23/18 20:22 MST	0	Hail (0.75 in)
05/23/18 20:24 MST	0	Source: Public

Thunderstorms lifting through southwest North Dakota ahead of an advancing short wave produced penny-size hail over Billings County.

WILLIAMS COUNTY --- 0.8 NNW WILLISTON [48.16, -103.63]

05/24/18 14:51 CST	0	Funnel Cloud
05/24/18 14:53 CST	0	Source: Public

An upper level short-wave trough moved into western North Dakota during the afternoon hours with thunderstorms developing. One thunderstorm produced funnel clouds near Williston in Williams County.

MCKENZIE COUNTY --- 1.5 NNE ALEXANDER [47.87, -103.64]

05/26/18 22:46 MST	0	Thunderstorm Wind (MG 56 kt)
05/26/18 22:50 MST	0	Source: Mesonet

MCKENZIE COUNTY --- 8.0 S ARNEGARD [47.70, -103.41]

05/26/18 23:07 MST	20K	Thunderstorm Wind (EG 65 kt)
05/26/18 23:15 MST	0	Source: Trained Spotter

A 240 square foot anchored shed was destroyed with debris spread for about a quarter-mile towards the east. Twenty chickens and ten rabbits that lived in the shed perished. A single axle covered snowmobile trailer was blown about 200 yards from its original location and was severely damaged. A large pole barn and home on the site were not damaged.

MCKENZIE COUNTY --- WATFORD CITY [47.80, -103.28]

05/26/18 23:30 MST	25K	Thunderstorm Wind (EG 65 kt)
05/26/18 23:40 MST	0	Source: Public

A dual-axle camper was destroyed. Another building nearby suffered some damage.

MCKENZIE COUNTY --- 9.3 W CHARLSON [48.09, -103.07]

05/26/18 23:55 MST	0	Thunderstorm Wind (EG 52 kt)
05/26/18 23:59 MST	0	Source: Public

The public estimated a wind gust of 60 mph.

MCKENZIE COUNTY --- 0.7 N MANDAREE [47.73, -102.68]

05/27/18 00:22 MST	1K	Thunderstorm Wind (EG 52 kt)
05/27/18 00:27 MST	0	Source: Public

A locked door was blow open by the thunderstorm wind gust.

MCLEAN COUNTY --- 1.2 NW GARRISON [47.66, -101.44]

05/27/18 02:29 CST	0	Thunderstorm Wind (MG 52 kt)
05/27/18 02:33 CST	0	Source: ASOS

WELLS COUNTY --- 2.3 SSW CHASELEY [47.42, -99.82]

05/27/18 04:20 CST	0	Thunderstorm Wind (EG 52 kt)
05/27/18 04:24 CST	0	Source: Public

A tree near the residence blew over, but the diameter of the tree was unknown.

A series of upper level short-wave troughs pushed over eastern Montana into North Dakota during the evening and overnight hours. Storms initially developed over eastern Montana, pushing into western North Dakota, with strong wind gusts occurring. Storms then developed towards the east as a low level jet intensified over the region, and pushed into central North Dakota. The greatest damage occurred in McKenzie County where wind gusts were estimated at 75 mph. An anchored shed was destroyed, along with a camper and

Storm Data and Unusual Weather Phenomena - May 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
snowmobile trailer.				
HETTINGER COUNTY --- 1.2 NW NEW ENGLAND [46.54, -102.87]				
	05/28/18 14:33 MST		0	Hail (1.00 in)
	05/28/18 14:36 MST		0	Source: COOP Observer
DUNN COUNTY --- 7.1 ESE EMERSON [47.14, -102.51]				
	05/28/18 17:10 MST		0	Hail (1.00 in)
	05/28/18 17:14 MST		0	Source: Public
DUNN COUNTY --- 7.2 E EMERSON [47.20, -102.50]				
	05/28/18 17:24 MST		0	Hail (1.00 in)
	05/28/18 17:28 MST		0	Source: Trained Spotter
DUNN COUNTY --- 1.7 NE HALLIDAY [47.37, -102.31]				
	05/28/18 18:03 MST		0	Hail (1.75 in)
	05/28/18 18:06 MST		0	Source: Public
DUNN COUNTY --- 2.8 N HALLIDAY [47.39, -102.33]				
	05/28/18 18:05 MST		0	Hail (1.25 in)
	05/28/18 18:09 MST		0	Source: Public
<p>Scattered thunderstorms developed in the late afternoon and early evening ahead of a weak upper level low pressure system that moved into the area from southeast Montana. A few storms became severe with large hail. The largest hail reported was golf-ball size, and fell over Dunn County.</p>				
MCKENZIE COUNTY --- 0.7 N WATFORD CITY [47.81, -103.28]				
	05/29/18 13:40 MST		0	Funnel Cloud
	05/29/18 13:43 MST		0	Source: Public
Several funnel clouds were reported in the vicinity of Watford City.				
MCKENZIE COUNTY --- 0.8 SW ARNEGARD [47.81, -103.44]				
	05/29/18 13:40 MST		0	Funnel Cloud
	05/29/18 13:42 MST		0	Source: Public
A funnel cloud developed in the vicinity of Arnegard.				
BOWMAN COUNTY --- 0.7 N BOWMAN [46.19, -103.40]				
	05/29/18 14:15 MST		0	Funnel Cloud
	05/29/18 14:17 MST		0	Source: Public
A funnel cloud developed in the vicinity of Bowman.				
<p>Thunderstorms developed over western North Dakota as a surface low and upper level low passed through the Northern Plains. Multiple funnel clouds were reported over McKenzie County, while another one was reported over Bowman County.</p>				
FOSTER COUNTY --- 1.4 E BORDULAC [47.38, -98.94], 1.9 ESE BORDULAC [47.37, -98.93]				
	05/30/18 11:15 CST		0	Tornado (EF0, L: 0.89 mi , W: 50 yd)
	05/30/18 11:30 CST		0	Source: Public
<p>This tornado was considered to be a "landspout" tornado. It occurred over rural areas east-southeast of Bordoulac, and no damage occurred. Therefore, it was rated EF0.</p>				
<p>Thunderstorms developed during the morning into the mid-day hours over central and eastern North Dakota to the north of a surface and upper level low pressure system. One thunderstorm near Bordoulac produced a "landspout" tornado which was slow moving and lasted about 15 minutes. No damage occurred with this tornado and so it was rated EF0.</p>				
DIVIDE COUNTY --- 16.2 SSE ALKABO [48.66, -103.71]				
	05/30/18 21:05 CST		0	Hail (1.25 in)
	05/30/18 21:08 CST		0	Source: Trained Spotter

Storm Data and Unusual Weather Phenomena - May 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Scattered thunderstorms developed over northwest North Dakota with one storm becoming severe over Divide County, producing half-dollar size hail.				
DUNN COUNTY --- 5.0 SSE EMERSON [47.11, -102.62], 5.2 SSE EMERSON [47.11, -102.61]				
	05/31/18 12:43 MST		0	Tornado (EF0, L: 0.32 mi , W: 50 yd)
	05/31/18 12:46 MST		0	Source: Trained Spotter
The tornado occurred over rural locations northwest of Hirschville. No damage occurred, therefore the tornado was rated EF0.				
DUNN COUNTY --- 0.7 N MARSHALL [47.14, -102.33]				
	05/31/18 13:00 MST		5K	Hail (1.25 in)
	05/31/18 13:03 MST		0	Source: COOP Observer
Windows were broken by the hail.				
DUNN COUNTY --- 3.6 NW MARSHALL [47.17, -102.38]				
	05/31/18 13:00 MST		0	Thunderstorm Wind (EG 52 kt)
	05/31/18 13:03 MST		0	Source: COOP Observer
A COOP Observer estimated a thunderstorm wind gust of 60 mph.				
STARK COUNTY --- 1.4 W DICKINSON [46.88, -102.81]				
	05/31/18 13:30 MST		0	Hail (1.00 in)
	05/31/18 13:33 MST		0	Source: Public
STARK COUNTY --- 2.8 N DICKINSON [46.92, -102.79]				
	05/31/18 14:15 MST		0	Hail (1.00 in)
	05/31/18 14:18 MST		0	Source: Trained Spotter
STARK COUNTY --- 4.7 S RICHARDTON [46.81, -102.32], 4.8 S RICHARDTON [46.81, -102.32]				
	05/31/18 15:19 MST		0	Tornado (EF0, L: 0.42 mi , W: 50 yd)
	05/31/18 15:24 MST		0	Source: Storm Chaser
The tornado occurred over rural locations south of Richardton. No damage occurred, therefore the tornado was rated EF0.				
HETTINGER COUNTY --- 1.2 NW NEW ENGLAND [46.54, -102.87]				
	05/31/18 15:20 MST		0	Hail (1.00 in)
	05/31/18 15:30 MST		0	Source: COOP Observer
HETTINGER COUNTY --- 15.9 N MOTT [46.61, -102.33]				
	05/31/18 15:30 MST		15K	Thunderstorm Wind (EG 61 kt)
	05/31/18 15:35 MST		0	Source: Public
A wind break was torn down and a roof was damaged.				
STARK COUNTY --- 0.5 W LEFOR [46.68, -102.56]				
	05/31/18 16:06 MST		0	Thunderstorm Wind (EG 52 kt)
	05/31/18 16:10 MST		0	Source: Law Enforcement
Law enforcement estimated a thunderstorm wind gust of 60 mph.				
ROLETTE COUNTY --- 5.0 SW BELCOURT [48.77, -99.80]				
	05/31/18 16:13 CST		25K	Thunderstorm Wind (EG 65 kt)
	05/31/18 16:17 CST		0	Source: Law Enforcement
One semi-trailer was blown over and a spruce tree was uprooted. Some tin from a pole barn style building also blew off.				
MORTON COUNTY --- 8.0 N GLEN ULLIN [46.94, -101.83], 8.0 N GLEN ULLIN [46.94, -101.82]				
	05/31/18 17:15 CST		0	Tornado (EF0, L: 0.25 mi , W: 50 yd)
	05/31/18 17:17 CST		0	Source: Storm Chaser

Storm Data and Unusual Weather Phenomena - May 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MORTON COUNTY --- GLEN ULLIN [46.82, -101.83]				
	05/31/18 17:15 CST	0		Thunderstorm Wind (MG 65 kt)
	05/31/18 17:19 CST	0		Source: AWOS
GRANT COUNTY --- 0.5 E CARSON [46.42, -101.56]				
	05/31/18 18:15 MST	0		Hail (0.75 in)
	05/31/18 18:18 MST	0		Source: Law Enforcement
GRANT COUNTY --- 3.3 E CARSON [46.42, -101.50]				
	05/31/18 18:19 MST	0		Funnel Cloud
	05/31/18 18:22 MST	0		Source: Law Enforcement
A deputy sheriff located in Carson observed the funnel cloud and estimated it to be about three miles east of Carson.				
HETTINGER COUNTY --- 0.8 SW MOTT [46.37, -102.33]				
	05/31/18 18:29 MST	0		Hail (1.00 in)
	05/31/18 18:32 MST	0		Source: NWS Employee
HETTINGER COUNTY --- 0.5 W MOTT [46.38, -102.33]				
	05/31/18 18:31 MST	0		Hail (1.25 in)
	05/31/18 18:34 MST	0		Source: Law Enforcement
HETTINGER COUNTY --- 0.8 SW MOTT [46.37, -102.33]				
	05/31/18 18:35 MST	0		Hail (0.75 in)
	05/31/18 18:40 MST	0		Source: Trained Spotter
GRANT COUNTY --- NEW LEIPZIG [46.37, -101.95]				
	05/31/18 19:09 MST	0		Hail (1.00 in)
	05/31/18 19:12 MST	0		Source: Public
MORTON COUNTY --- 0.7 N FLASHER [46.46, -101.23]				
	05/31/18 19:36 CST	0		Thunderstorm Wind (EG 52 kt)
	05/31/18 19:39 CST	0		Source: Public
The public estimated a thunderstorm wind gust of 60 mph.				
SIOUX COUNTY --- 1.7 NE SELFRIDGE [46.05, -100.91]				
	05/31/18 21:20 MST	0		Hail (1.00 in)
	05/31/18 21:23 MST	0		Source: Trained Spotter

Discrete storms developed initially ahead of a strong shortwave in moderate instability and shear. The initial storms produced large hail and several funnel clouds along with three short-lived tornadoes, one in Morton County, one in Stark, and one in Dunn County. There was no damage with the three tornadoes and so they were all rated EF0. Additional storm growth then occurred, forming into a small mesoscale convective system with large hail and strong wind gusts as the main threats. The largest hail was half-dollar size, and fell in both Hettinger and Dunn Counties. The strongest wind gusts of 75 mph occurred in Morton and Rolette counties.