

Storm Data and Unusual Weather Phenomena - July 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
NORTH DAKOTA, Central and West				
WELLS COUNTY --- 7.7 SW HARVEY [47.70, -100.03]				
	07/01/16 14:25 CST		0	Hail (1.00 in)
	07/01/16 14:34 CST		75K	Source: Public
An isolated slow moving thunderstorm developed over northeast Sheridan County and moved into northwest Wells County. The storm produced very heavy rain in both counties and one-inch diameter hail resulting in crop damage southwest of Harvey, Wells County.				
DUNN COUNTY --- 7.6 S WERNER [47.26, -102.47]				
	07/03/16 15:05 MST		0	Hail (1.00 in)
	07/03/16 15:10 MST		0	Source: Trained Spotter
DUNN COUNTY --- 8.3 S WERNER [47.25, -102.49]				
	07/03/16 15:15 MST		30K	Hail (1.75 in)
	07/03/16 15:21 MST		0	Source: Trained Spotter
Siding on a house was damaged.				
MERCER COUNTY --- 7.5 NW GOLDEN VLY [47.37, -102.16]				
	07/03/16 16:45 CST		0	Hail (1.75 in)
	07/03/16 16:52 CST		0	Source: Public
MERCER COUNTY --- 0.8 NE GOLDEN VLY [47.29, -102.06]				
	07/03/16 17:13 CST		0	Thunderstorm Wind (MG 56 kt)
	07/03/16 17:15 CST		0	Source: Mesonet
MERCER COUNTY --- 0.7 S BEULAH [47.26, -101.78]				
	07/03/16 17:35 CST		0	Hail (1.75 in)
	07/03/16 17:38 CST		0	Source: Broadcast Media
MERCER COUNTY --- 3.3 SW HAZEN [47.26, -101.67]				
	07/03/16 17:35 CST		0.10M	Thunderstorm Wind (EG 65 kt)
	07/03/16 17:38 CST		25K	Source: Amateur Radio
A camper trailer was turned over on its side. House siding was torn off and road signs were flattened.				
MERCER COUNTY --- 0.8 SE HAZEN [47.29, -101.62]				
	07/03/16 17:38 CST		0	Thunderstorm Wind (MG 63 kt)
	07/03/16 17:41 CST		0	Source: Mesonet
MERCER COUNTY --- 0.8 SE HAZEN [47.29, -101.62]				
	07/03/16 17:50 CST		0.10M	Thunderstorm Wind (EG 61 kt)
	07/03/16 17:54 CST		20K	Source: Broadcast Media
Numerous trees were down in Hazen.				
WARD COUNTY --- 1.4 N KENMARE [48.69, -102.08]				
	07/03/16 19:14 CST		0	Hail (1.00 in)
	07/03/16 19:17 CST		0	Source: Broadcast Media
BURLEIGH COUNTY --- 0.8 NW BISMARCK [46.81, -100.78]				
	07/03/16 19:45 CST		0	Hail (0.88 in)
	07/03/16 19:47 CST		0	Source: Official NWS Observations
BURLEIGH COUNTY --- 0.8 NW BISMARCK [46.81, -100.78]				
	07/03/16 20:00 CST		0	Hail (0.75 in)
	07/03/16 20:02 CST		0	Source: Public

Storm Data and Unusual Weather Phenomena - July 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Thunderstorms developed in the vicinity of a surface low pressure system and frontal boundary over western and central North Dakota, with the primary line stretching from western Lake Sakakawea into Morton County.

ROLETTE COUNTY --- 10.3 SSW THORNE [48.60, -100.03]

	07/04/16 14:06 CST		0	Hail (1.25 in)
	07/04/16 14:13 CST		0	Source: Trained Spotter

ROLETTE COUNTY --- 9.7 SW THORNE [48.63, -100.07]

	07/04/16 14:12 CST		0	Hail (1.75 in)
	07/04/16 14:16 CST		0	Source: Trained Spotter

PIERCE COUNTY --- 5.5 WNW RUGBY [48.40, -100.09]

	07/04/16 14:20 CST		0	Hail (1.00 in)
	07/04/16 14:23 CST		0	Source: Public

ROLETTE COUNTY --- 9.9 SW THORNE [48.62, -100.06]

	07/04/16 14:20 CST		0.15M	Hail (2.75 in)
	07/04/16 14:30 CST		50K	Source: Public

Large hail combined with strong winds to cause extensive damage to a house, vehicle, and outbuildings. Wind speeds were estimated at 55 mph.

DICKEY COUNTY --- 2.5 WNW FORBES [45.96, -98.83]

	07/04/16 16:41 CST		50K	Thunderstorm Wind (EG 52 kt)
	07/04/16 16:44 CST		10K	Source: Public

The public reported thunderstorm wind gusts of 60 mph combined with nickel sized hail. Damage occurred to shingles on roofs and to vehicles.

DICKEY COUNTY --- 10.8 NW FORBES [46.06, -98.94]

	07/04/16 16:44 CST		0	Thunderstorm Wind (EG 56 kt)
	07/04/16 16:47 CST		0	Source: Trained Spotter

A trained spotter reported thunderstorm wind gusts of 65 mph.

FOSTER COUNTY --- 2.7 ESE MC HENRY [47.56, -98.55]

	07/04/16 17:05 CST		10K	Thunderstorm Wind (EG 61 kt)
	07/04/16 17:08 CST		0	Source: Public

The public reported that some trees were blown over in shelter belts.

DICKEY COUNTY --- 4.2 S ELLENDALE [45.94, -98.53]

	07/04/16 17:10 CST		0	Thunderstorm Wind (MG 56 kt)
	07/04/16 17:13 CST		0	Source: Mesonet

Severe thunderstorms developed along and ahead of a pre-frontal trough as it approached central North Dakota. The greatest damage was reported in Rolette County, where a residence sustained substantial damage from baseball sized hail.

MCHENRY COUNTY --- 8.6 NE BANTRY [48.60, -100.49]

	07/05/16 17:00 CST		0	Hail (0.88 in)
	07/05/16 17:02 CST		0	Source: Storm Chaser

MCHENRY COUNTY --- 9.7 NE BANTRY [48.61, -100.47]

	07/05/16 17:00 CST		0	Hail (1.00 in)
	07/05/16 17:03 CST		0	Source: Public

MCHENRY COUNTY --- 8.7 NNW BERWICK [48.49, -100.31]

	07/05/16 17:10 CST		0	Hail (1.00 in)
	07/05/16 17:11 CST		0	Source: Public

WELLS COUNTY --- 4.4 NNE HAMBERG [47.83, -99.47]

Storm Data and Unusual Weather Phenomena - July 2016

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	07/05/16 19:00 CST		0	Hail (1.00 in)
	07/05/16 19:03 CST		0	Source: Trained Spotter
A weak short wave moving through central North Dakota combined with marginal instability and shear to produce isolated thunderstorms. A few storms became severe with one inch diameter hail falling in McHenry County and in Wells County.				
GOLDEN VALLEY COUNTY --- 11.1 N SENTINEL BUTTE [47.08, -103.85]				
	07/06/16 13:10 MST		0	Hail (0.88 in)
	07/06/16 13:13 MST		0	Source: Public
GOLDEN VALLEY COUNTY --- 11.8 N BEACH MUNI ARPT [47.10, -104.00]				
	07/06/16 13:54 MST		0	Hail (1.00 in)
	07/06/16 13:57 MST		0	Source: Public
SLOPE COUNTY --- 5.7 W MARMARTH [46.30, -104.02]				
	07/06/16 14:55 MST		0	Hail (1.00 in)
	07/06/16 14:58 MST		0	Source: Public
BOWMAN COUNTY --- 17.1 SW RHAME [46.04, -103.88]				
	07/06/16 15:30 MST		0	Thunderstorm Wind (MG 52 kt)
	07/06/16 15:33 MST		0	Source: Emergency Manager
SLOPE COUNTY --- 13.3 WSW AMIDON [46.41, -103.58]				
	07/06/16 15:35 MST		0	Hail (1.00 in)
	07/06/16 15:40 MST		0	Source: Public
HETTINGER COUNTY --- 9.0 S NEW ENGLAND [46.40, -102.86]				
	07/06/16 16:25 MST		0	Hail (0.88 in)
	07/06/16 16:28 MST		0	Source: Public
HETTINGER COUNTY --- 0.7 S MOTT [46.37, -102.32]				
	07/06/16 16:46 MST		0	Thunderstorm Wind (EG 52 kt)
	07/06/16 16:49 MST		0	Source: Public
The public estimated thunderstorm wind gusts of 60 mph.				
ADAMS COUNTY --- 0.7 S HETTINGER ARPT [46.01, -102.65]				
	07/06/16 16:59 MST		0	Thunderstorm Wind (MG 61 kt)
	07/06/16 17:01 MST		0	Source: ASOS
HETTINGER COUNTY --- 0.7 S MOTT [46.37, -102.32]				
	07/06/16 17:00 MST		15K	Thunderstorm Wind (EG 61 kt)
	07/06/16 17:05 MST		0	Source: Emergency Manager
Trees were down in Mott.				
GRANT COUNTY --- 4.0 NNE HEIL [46.43, -101.66]				
	07/06/16 17:40 MST		0	Thunderstorm Wind (EG 52 kt)
	07/06/16 17:43 MST		0	Source: Public
The public reported thunderstorm wind gusts of 60 mph.				
GRANT COUNTY --- 0.5 E CARSON [46.42, -101.56]				
	07/06/16 18:05 MST		0	Thunderstorm Wind (EG 52 kt)
	07/06/16 18:08 MST		0	Source: Law Enforcement
Law enforcement reported thunderstorm wind gusts of 60 mph.				
GRANT COUNTY --- 5.9 SE BRISBANE [46.30, -101.38]				

Storm Data and Unusual Weather Phenomena - July 2016

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	07/06/16 18:20 MST		0	Thunderstorm Wind (EG 52 kt)
	07/06/16 18:23 MST		0	Source: Trained Spotter
A trained spotter reported thunderstorm wind gusts of 60 mph.				
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MORTON COUNTY --- 0.5 W BREIEN [46.38, -100.94]				
	07/06/16 19:48 CST		5K	Thunderstorm Wind (EG 52 kt)
	07/06/16 19:51 CST		0	Source: Public
The public reported many tree branches were down in Brien.				
A short wave approached western North Dakota in the mid to late afternoon. This combined with modest instability and strong deep layer shear to produce severe thunderstorms. Initial storms produced large hail over far southwest North Dakota, with a gradual shift towards strong winds as the storms moved east into an environment with a drier lower atmosphere.				
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RENVILLE COUNTY --- 7.1 W LORAIN [48.87, -101.71], 6.8 W LORAIN [48.87, -101.70]				
	07/07/16 13:30 CST		0	Tornado (EF0, L: 0.32 mi , W: 20 yd)
	07/07/16 13:32 CST		0	Source: Public
A tornado touched down in a rural area west of Loraine and traveled about one-third mile. No damage, injuries, or fatalities were reported. Because the tornado impacted no structures it was rated EF-0.				
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RENVILLE COUNTY --- 1.8 W LORAIN [48.87, -101.59]				
	07/07/16 14:00 CST		0	Hail (0.88 in)
	07/07/16 14:03 CST		0	Source: Law Enforcement
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RENVILLE COUNTY --- 7.0 NW MOHALL [48.84, -101.61]				
	07/07/16 14:00 CST		0	Funnel Cloud
	07/07/16 14:02 CST		0	Source: Law Enforcement
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BOTTINEAU COUNTY --- 4.2 W NEWBURG [48.73, -101.01], 3.9 W NEWBURG [48.73, -101.00]				
	07/07/16 14:38 CST		0	Tornado (EF0, L: 0.26 mi , W: 20 yd)
	07/07/16 14:40 CST		0	Source: Law Enforcement
A tornado touched down in a rural area west of Newburg and traveled about one-quarter mile. No damage, injuries, or fatalities were reported. Because the tornado impacted no structures it was rated EF-0.				
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BOTTINEAU COUNTY --- 0.5 W RUSSELL [48.67, -100.91]				
	07/07/16 14:40 CST		0	Funnel Cloud
	07/07/16 14:43 CST		0	Source: Law Enforcement
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BOTTINEAU COUNTY --- 4.6 ENE MAXBASS [48.75, -101.04]				
	07/07/16 14:40 CST		0	Hail (1.00 in)
	07/07/16 14:43 CST		0	Source: Trained Spotter
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BOTTINEAU COUNTY --- 2.8 ESE KRAMER [48.69, -100.64]				
	07/07/16 15:29 CST		0	Hail (1.00 in)
	07/07/16 15:32 CST		0	Source: Public
Thunderstorms formed near an upper level low with strong low level instability in the vicinity of a weak low level boundary. Two storms produced short-lived tornadoes in Renville and Bottineau Counties, with hail to the size of quarters also falling in Bottineau County.				
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DIVIDE COUNTY --- 13.2 SE ALKABO [48.72, -103.69]				
	07/09/16 05:10 CST		0	Hail (0.75 in)
	07/09/16 05:13 CST		0	Source: Trained Spotter
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MORTON COUNTY --- 2.9 NNW FLASHER [46.49, -101.25], 2.9 NNW FLASHER [46.49, -101.25]				
	07/09/16 06:35 CST		0	Tornado (EF0, L: 0.07 mi , W: 20 yd)
	07/09/16 06:36 CST		0	Source: Trained Spotter

A tornado touched down in a rural area north of Flasher and traveled about one-tenth of a mile. No damage, injuries, or fatalities were reported. No structures were impacted and so the tornado was rated EF-0.

Storm Data and Unusual Weather Phenomena - July 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
LOGAN COUNTY --- 0.7 N NAPOLEON [46.51, -99.77]				
	07/09/16 09:35 CST		0	Hail (0.88 in)
	07/09/16 09:37 CST		0	Source: Law Enforcement
LOGAN COUNTY --- 0.7 N NAPOLEON [46.51, -99.77]				
	07/09/16 09:38 CST		0	Hail (0.88 in)
	07/09/16 09:40 CST		0	Source: Law Enforcement
<p>Clusters of thunderstorms formed in strong low level warm air advection over south central North Dakota during the early morning of July 9. One storm formed a bookend vortex and spawned a short lived tornado near Flasher. Sub-severe hail was also reported during this event over portions of northwest and south central North Dakota.</p>				
SIOUX COUNTY --- 30.4 W SELFRIDGE [45.98, -101.56]				
	07/09/16 18:15 MST		20K	Hail (2.00 in)
	07/09/16 18:17 MST		20K	Source: Broadcast Media
GRANT COUNTY --- 16.6 S BRISBANE [46.11, -101.48]				
	07/09/16 18:33 MST		0	Hail (1.25 in)
	07/09/16 18:36 MST		0	Source: Trained Spotter
GRANT COUNTY --- 9.8 WSW SHIELDS [46.20, -101.33]				
	07/09/16 18:57 MST		0	Thunderstorm Wind (EG 52 kt)
	07/09/16 18:59 MST		0	Source: Trained Spotter
<p>A trained spotter estimated thunderstorm winds gusting to 60 mph.</p>				
GRANT COUNTY --- 9.8 WSW SHIELDS [46.20, -101.33]				
	07/09/16 18:57 MST		20K	Hail (1.50 in)
	07/09/16 18:59 MST		15K	Source: Trained Spotter
FOSTER COUNTY --- 0.5 E BARLOW [47.57, -99.14]				
	07/09/16 19:30 CST		0	Hail (1.00 in)
	07/09/16 19:33 CST		0	Source: Public
FOSTER COUNTY --- 0.8 NE CARRINGTON [47.46, -99.12]				
	07/09/16 19:55 CST		0	Hail (1.00 in)
	07/09/16 19:57 CST		0	Source: Public
WELLS COUNTY --- 2.8 S HAMBERG [47.73, -99.51]				
	07/09/16 20:02 CST		0	Hail (1.00 in)
	07/09/16 20:13 CST		0	Source: Public
FOSTER COUNTY --- 3.5 S CARRINGTON [47.40, -99.12]				
	07/09/16 20:07 CST		0	Funnel Cloud
	07/09/16 20:12 CST		0	Source: Fire Department/Rescue
MORTON COUNTY --- 0.5 W BREIEN [46.38, -100.94]				
	07/09/16 20:30 CST		0	Thunderstorm Wind (EG 52 kt)
	07/09/16 20:35 CST		0	Source: Trained Spotter
<p>A trained spotter estimated thunderstorm winds gusting to 60 mph.</p>				
FOSTER COUNTY --- 3.6 SSE BARLOW [47.52, -99.13]				
	07/09/16 20:31 CST		0	Hail (1.00 in)
	07/09/16 20:34 CST		0	Source: Public
MORTON COUNTY --- 5.9 ENE BREIEN [46.42, -100.82]				

Storm Data and Unusual Weather Phenomena - July 2016

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	07/09/16 20:45 CST		0	Thunderstorm Wind (EG 52 kt)
	07/09/16 20:59 CST		0	Source: Trained Spotter
A trained spotter estimated thunderstorm winds gusting to 60 mph.				
STUTSMAN COUNTY --- 6.3 NE WOODWORTH [47.21, -99.20]				
	07/09/16 21:00 CST		0	Funnel Cloud
	07/09/16 21:01 CST		0	Source: Trained Spotter
STUTSMAN COUNTY --- 0.8 NW JAMESTOWN [46.91, -98.71]				
	07/09/16 22:05 CST		0.10M	Hail (1.75 in)
	07/09/16 22:08 CST		10K	Source: Public
STUTSMAN COUNTY --- 0.9 W JAMESTOWN [46.90, -98.72]				
	07/09/16 22:05 CST		0	Hail (1.00 in)
	07/09/16 22:07 CST		0	Source: Public
STARK COUNTY --- 0.5 W DICKINSON [46.88, -102.79]				
	07/09/16 23:04 MST		0	Thunderstorm Wind (EG 52 kt)
	07/09/16 23:06 MST		0	Source: Law Enforcement
Law enforcement estimated thunderstorm wind gusts to 60 mph.				
STARK COUNTY --- 0.5 W DICKINSON [46.88, -102.79]				
	07/09/16 23:10 MST		0.20M	Thunderstorm Wind (MG 74 kt)
	07/09/16 23:20 MST		0.10M	Source: Public
Numerous trees were snapped or uprooted on the south side of Dickinson. A camper was also flipped.				
STARK COUNTY --- 0.7 S (DIK)DICKINSON MUNI [46.79, -102.80]				
	07/09/16 23:10 MST		0	Thunderstorm Wind (MG 66 kt)
	07/09/16 23:20 MST		0	Source: ASOS
STARK COUNTY --- 1.2 NW DICKINSON [46.89, -102.80]				
	07/09/16 23:11 MST		0	Thunderstorm Wind (MG 55 kt)
	07/09/16 23:16 MST		0	Source: Mesonet
STARK COUNTY --- 1.2 SW GLADSTONE [46.86, -102.57]				
	07/09/16 23:28 MST		0	Thunderstorm Wind (EG 61 kt)
	07/09/16 23:33 MST		0	Source: Law Enforcement
Law Enforcement reported thunderstorm wind gusts to 70 mph.				
STARK COUNTY --- 6.8 NNW TAYLOR [46.99, -102.48]				
	07/09/16 23:28 MST		30K	Thunderstorm Wind (MG 64 kt)
	07/09/16 23:32 MST		50K	Source: COOP Observer
Damage occurred at a farmstead where shingles blew off an out-building and window panes were blown out of a quonset.				
DUNN COUNTY --- 4.3 W MARSHALL [47.14, -102.42]				
	07/09/16 23:50 MST		75K	Thunderstorm Wind (EG 52 kt)
	07/09/16 23:54 MST		25K	Source: Trained Spotter
Trees were blown down and a barn sustained damage.				
OLIVER COUNTY --- 3.5 N CENTER [47.17, -101.29]				
	07/10/16 02:00 CST		10K	Thunderstorm Wind (EG 52 kt)
	07/10/16 02:05 CST		0	Source: Trained Spotter
Trees were down near Center.				

Storm Data and Unusual Weather Phenomena - July 2016

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OLIVER COUNTY --- CENTER [47.12, -101.30]				
	07/10/16 02:00 CST		0	Hail (0.75 in)
	07/10/16 02:04 CST		0	Source: Public
<p>Strong instability and deep layer shear developed western and central North Dakota, though storms were initially reluctant to form due to a strong capping inversion. During the evening storms quickly intensified over the upper James River Valley producing funnel clouds and hail as they spread south, while another area of rapid growth occurred over southwest North Dakota producing hail and strong winds as storms spread east. All these storms gradually weakened and merged over the southern James River Valley. The next line of storms moved in from Montana late in the evening and overnight, and pushed east over southwest into south central North Dakota. Spearhead signatures were noted on radar, with wind gusts to 85 mph reported in the Dickinson area.</p>				
BILLINGS COUNTY --- 2.7 WSW FAIRFIELD [47.16, -103.27]				
	07/10/16 14:13 MST		0	Hail (1.25 in)
	07/10/16 14:16 MST		0	Source: Trained Spotter
BILLINGS COUNTY --- 4.2 N FAIRFIELD [47.24, -103.22]				
	07/10/16 14:15 MST		0.15M	Hail (1.75 in)
	07/10/16 14:19 MST		0.20M	Source: Public
<p>Golf ball sized hail combined with wind gusts of 70 mph to break windows and cause significant damage to siding and roofs, and vehicles. Crop damage was high.</p>				
BILLINGS COUNTY --- 8.4 NE FAIRFIELD [47.27, -103.10]				
	07/10/16 14:27 MST		0	Hail (1.50 in)
	07/10/16 14:37 MST		0	Source: Trained Spotter
BILLINGS COUNTY --- 7.7 S FAIRFIELD [47.07, -103.20]				
	07/10/16 14:32 MST		0	Hail (1.00 in)
	07/10/16 14:35 MST		0	Source: Public
DUNN COUNTY --- 5.1 SW KILLDEER [47.32, -102.85]				
	07/10/16 14:47 MST		30K	Hail (1.75 in)
	07/10/16 14:57 MST		25K	Source: Trained Spotter
SLOPE COUNTY --- 8.5 NNE MARMARTH [46.42, -103.86]				
	07/10/16 14:52 MST		50K	Hail (1.75 in)
	07/10/16 14:55 MST		50K	Source: Public
<p>Wind gusts to 60 mph also accompanied the hail.</p>				
DUNN COUNTY --- 0.9 E KILLDEER [47.37, -102.75]				
	07/10/16 15:00 MST		20M	Hail (3.25 in)
	07/10/16 15:30 MST	2	1M	Source: Law Enforcement
<p>A slow moving supercell resulted in an extended period of very large hail and damaging wind gusts in and around the city of Killdeer . Hail up to 3.25 inches in diameter completely covered the ground in many locations. The hail combined with wind gusts of 75 mph to cause extreme damage to buildings, trees, and vehicles in the city. At the Killdeer nursing home windows were broken out and four rooms were damaged to the point where they were not habitable. Two residents sustained minor injuries. The first was injured (direct injury) when they were struck by broken flying glass. The other person was injured (direct injury) as they were evacuating their living area due to broken windows and fell on a wet floor as rain and hail were pouring in. Every field light at the new football stadium was destroyed, and every bus at the school was significantly damaged. Significant damage occurred to vehicles including those at a dealership.</p>				
DUNN COUNTY --- 2.8 N MANNING [47.27, -102.77]				
	07/10/16 15:05 MST		0	Hail (1.75 in)
	07/10/16 15:10 MST		0	Source: Public
DIVIDE COUNTY --- 1.4 N CROSBY MUNI ARPT [48.95, -103.30]				
	07/10/16 15:30 CST		0	Funnel Cloud
	07/10/16 15:32 CST		0	Source: Public

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SLOPE COUNTY --- 2.4 W AMIDON [46.48, -103.37]				
	07/10/16 15:34 MST		0.13M	Hail (1.75 in)
	07/10/16 15:46 MST		50K	Source: Trained Spotter
The ground was covered with golf ball sized hail. The hail dented frames on windows and broke window screens. Windshields were broken on vehicles.				
DUNN COUNTY --- 16.6 NNE WERNER [47.60, -102.37]				
	07/10/16 15:45 MST		10K	Thunderstorm Wind (EG 61 kt)
	07/10/16 15:50 MST		0	Source: Public
Large tree branches were broken around the marina at McKenzie Bay.				
SLOPE COUNTY --- AMIDON [46.48, -103.32]				
	07/10/16 15:50 MST		0	Hail (1.50 in)
	07/10/16 15:56 MST		0	Source: Public
SLOPE COUNTY --- 4.3 W AMIDON [46.48, -103.41]				
	07/10/16 16:00 MST		0.15M	Hail (2.75 in)
	07/10/16 16:10 MST		0.25M	Source: Trained Spotter
Crops and vehicles were extensively damaged from the baseball sized hail.				
SLOPE COUNTY --- 13.5 E AMIDON [46.45, -103.04]				
	07/10/16 16:08 MST		0	Hail (1.00 in)
	07/10/16 16:12 MST		0	Source: Public
STARK COUNTY --- 0.5 W (DIK)DICKINSON MUNI [46.80, -102.81]				
	07/10/16 16:44 MST		0	Thunderstorm Wind (MG 51 kt)
	07/10/16 16:47 MST		0	Source: ASOS
HETTINGER COUNTY --- 1.5 NNW REGENT [46.44, -102.56]				
	07/10/16 16:45 MST		0	Thunderstorm Wind (EG 61 kt)
	07/10/16 16:48 MST		0	Source: Trained Spotter
A trained spotter estimated thunderstorm wind gusts of 70 mph.				
HETTINGER COUNTY --- 0.8 SW MOTT [46.37, -102.33]				
	07/10/16 17:10 MST		0	Thunderstorm Wind (EG 65 kt)
	07/10/16 17:13 MST		0	Source: Trained Spotter
A trained spotter estimated thunderstorm wind gusts of 75 mph.				
ADAMS COUNTY --- 14.0 NE HETTINGER ARPT [46.18, -102.47]				
	07/10/16 17:25 MST		0	Thunderstorm Wind (EG 52 kt)
	07/10/16 17:27 MST		0	Source: Trained Spotter
A trained spotter estimated wind gusts of 60 mph.				
HETTINGER COUNTY --- 0.5 E BENTLEY [46.33, -102.06]				
	07/10/16 17:45 MST		0	Thunderstorm Wind (EG 56 kt)
	07/10/16 17:55 MST		0	Source: Trained Spotter
A trained spotter estimated thunderstorm wind gusts of 65 mph.				
MORTON COUNTY --- 0.9 W HEBRON [46.90, -102.05]				
	07/10/16 18:20 CST		0	Thunderstorm Wind (EG 52 kt)
	07/10/16 18:25 CST		0	Source: Public
The public estimated thunderstorm wind gusts of 60 mph.				

Storm Data and Unusual Weather Phenomena - July 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MORTON COUNTY --- 4.7 WSW GLEN ULLIN [46.79, -101.92]				
	07/10/16 18:38 CST		0	Thunderstorm Wind (MG 61 kt)
	07/10/16 18:42 CST		0	Source: Trained Spotter
A trained spotter estimated thunderstorm wind gusts of 70 mph.				
MERCER COUNTY --- 2.8 S BEULAH [47.23, -101.78]				
	07/10/16 18:55 CST		0	Thunderstorm Wind (EG 52 kt)
	07/10/16 18:58 CST		0	Source: Trained Spotter
A trained spotter estimated thunderstorm wind gusts of 60 mph.				
GRANT COUNTY --- 11.4 WSW SHIELDS [46.14, -101.33]				
	07/10/16 18:57 MST		0	Funnel Cloud
	07/10/16 18:59 MST		0	Source: Law Enforcement
GRANT COUNTY --- 11.4 WSW SHIELDS [46.14, -101.33]				
	07/10/16 18:57 MST		0	Thunderstorm Wind (EG 61 kt)
	07/10/16 19:01 MST		0	Source: Public
The public estimated thunderstorm wind gusts of 70 mph.				
WILLIAMS COUNTY --- 2.3 NW (ISN)SLOULIN FLD WIL [48.20, -103.69]				
	07/10/16 19:00 CST		0	Funnel Cloud
	07/10/16 19:03 CST		0	Source: Law Enforcement
MERCER COUNTY --- 2.4 ESE HAZEN [47.29, -101.58]				
	07/10/16 19:15 CST		0	Thunderstorm Wind (MG 54 kt)
	07/10/16 19:18 CST		0	Source: AWOS
MORTON COUNTY --- 5.9 ENE SWEET BRIAR [46.87, -101.07]				
	07/10/16 19:35 CST		0	Thunderstorm Wind (EG 52 kt)
	07/10/16 19:38 CST		0	Source: Trained Spotter
A trained spotter estimated thunderstorm wind gusts of 60 mph.				
MORTON COUNTY --- 5.9 ENE SWEET BRIAR [46.87, -101.07]				
	07/10/16 19:52 CST		0	Thunderstorm Wind (EG 61 kt)
	07/10/16 19:55 CST		0	Source: Trained Spotter
A trained spotter estimated thunderstorm wind gusts of 70 mph.				
MORTON COUNTY --- 0.5 E MANDAN [46.83, -100.89]				
	07/10/16 19:56 CST		0	Thunderstorm Wind (EG 61 kt)
	07/10/16 19:59 CST		0	Source: Public
The public estimated thunderstorm wind gusts of 70 mph.				
MORTON COUNTY --- 0.5 E MANDAN [46.83, -100.89]				
	07/10/16 19:58 CST		0	Hail (0.88 in)
	07/10/16 20:00 CST		0	Source: Public
MCLEAN COUNTY --- 9.0 S RUSO [47.70, -100.93]				
	07/10/16 20:20 CST		0	Hail (0.88 in)
	07/10/16 20:23 CST		0	Source: Public
BURLEIGH COUNTY --- 1.2 SW BISMARCK [46.79, -100.79]				
	07/10/16 20:27 CST		0	Hail (1.00 in)
	07/10/16 20:30 CST		0	Source: Public

Storm Data and Unusual Weather Phenomena - July 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MORTON COUNTY --- 5.9 ENE BREIEN [46.42, -100.82]				
	07/10/16 20:27 CST		0	Thunderstorm Wind (EG 52 kt)
	07/10/16 20:30 CST		0	Source: Trained Spotter
A trained spotter estimated thunderstorm wind gusts of 60 mph.				
KIDDER COUNTY --- 1.2 NW STEELE [46.86, -99.92]				
	07/10/16 21:11 CST		0	Thunderstorm Wind (EG 56 kt)
	07/10/16 21:15 CST		0	Source: Public
The public estimated thunderstorm wind gusts of 65 mph.				
WELLS COUNTY --- 3.1 ENE CHASELEY [47.47, -99.74]				
	07/10/16 21:23 CST		0	Hail (1.00 in)
	07/10/16 21:28 CST		0	Source: Public
STUTSMAN COUNTY --- 1.4 N MEDINA [46.90, -99.30]				
	07/10/16 21:50 CST		75K	Thunderstorm Wind (EG 70 kt)
	07/10/16 21:58 CST		30K	Source: Trained Spotter
Multiple large trees were uprooted throughout the city of Medina.				
ADAMS COUNTY --- 0.8 SW BUCYRUS [46.06, -102.79]				
	07/10/16 22:05 MST		30K	Hail (2.50 in)
	07/10/16 22:08 MST		20K	Source: Public
STUTSMAN COUNTY --- 4.3 W ELDRIDGE [46.91, -98.92]				
	07/10/16 22:10 CST		0	Thunderstorm Wind (MG 50 kt)
	07/10/16 22:13 CST		0	Source: Mesonet
ADAMS COUNTY --- 8.5 NE BUCYRUS [46.16, -102.66]				
	07/10/16 22:20 MST		0	Hail (1.00 in)
	07/10/16 22:23 MST		0	Source: Public
STUTSMAN COUNTY --- 0.8 NW YPSILANTI [46.79, -98.56]				
	07/10/16 22:30 CST		0	Thunderstorm Wind (EG 52 kt)
	07/10/16 22:34 CST		0	Source: Public
The public estimated thunderstorm wind gusts of 60 mph.				
GRANT COUNTY --- NEW LEIPZIG [46.37, -101.95]				
	07/10/16 23:08 MST		0	Hail (1.00 in)
	07/10/16 23:12 MST		0	Source: Trained Spotter
SIOUX COUNTY --- 14.9 NW SELFRIDGE [46.19, -101.14]				
	07/10/16 23:30 MST		0	Hail (1.00 in)
	07/10/16 23:33 MST		0	Source: Public
SIOUX COUNTY --- 8.6 SSW CANNON BALL [46.27, -100.64]				
	07/11/16 00:05 MST		0	Hail (1.50 in)
	07/11/16 00:08 MST		0	Source: Public
EMMONS COUNTY --- LINTON [46.27, -100.23]				
	07/11/16 00:12 CST		50K	Hail (2.00 in)
	07/11/16 00:15 CST		20K	Source: Trained Spotter
EMMONS COUNTY --- 2.3 SSE TEMVIK [46.34, -100.23]				

Storm Data and Unusual Weather Phenomena - July 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/11/16 01:29 CST		0	Thunderstorm Wind (MG 53 kt)
	07/11/16 01:33 CST		0	Source: Mesonet
<hr/>				
EMMONS COUNTY --- 9.7 S KINTYRE [46.41, -99.93]				
	07/11/16 01:55 CST		0	Hail (1.75 in)
	07/11/16 02:00 CST		0.15M	Source: Trained Spotter
<hr/>				
EMMONS COUNTY --- LINTON [46.27, -100.23]				
	07/11/16 03:16 CST		0	Hail (0.88 in)
	07/11/16 03:19 CST		0	Source: Trained Spotter
<hr/>				
<p>Intense supercells formed in southwest North Dakota during the late afternoon with strong instability and deep layer shear in place. Initial supercells were discrete and very damaging with wind driven 3.25 inch diameter hail falling for an extended period of time in Killdeer, and baseball sized hail falling near Amidon. Damage estimates from the Killdeer area were around \$20 million. Upscale growth then occurred with storms forming into a quasi-linear convective system that pushed through central North Dakota and then the James River Valley. Strong thunderstorm winds accompanied the line of storms. Additional elevated storms then formed later in the night over southwest and south central North Dakota as a low level jet increased and an upper level trough approached, with storms continuing overnight.</p>				
<hr/>				
MORTON COUNTY --- 3.4 WSW FLASHER [46.44, -101.30]				
	07/11/16 14:33 CST		0	Hail (0.75 in)
	07/11/16 14:36 CST		0	Source: Public
<hr/>				
<p>A line of thunderstorms moved through central North Dakota ahead of an upper level low and in an area of steep low-level lapse rates. One storm produced sub-severe hail in Morton County.</p>				
<hr/>				
BOWMAN COUNTY --- BOWMAN [46.18, -103.40]				
	07/14/16 16:18 MST		0	Hail (1.00 in)
	07/14/16 16:23 MST		0	Source: Public
<hr/>				
BOWMAN COUNTY --- 0.7 S BOWMAN [46.17, -103.40]				
	07/14/16 16:26 MST		0	Hail (1.00 in)
	07/14/16 16:29 MST		0	Source: Trained Spotter
<hr/>				
BOWMAN COUNTY --- 15.7 SW RHAME [46.05, -103.85]				
	07/14/16 16:45 MST		0	Hail (1.75 in)
	07/14/16 16:48 MST		0	Source: Emergency Manager
<hr/>				
BOWMAN COUNTY --- 16.6 SSW RHAME [46.01, -103.79]				
	07/14/16 16:50 MST		0	Hail (1.75 in)
	07/14/16 16:53 MST		0	Source: Trained Spotter
<hr/>				
<p>A weak short wave approached southwest North Dakota in the late afternoon where modest instability and deep layer shear were present. This resulted in severe hail over Bowman County.</p>				
<hr/>				
GRANT COUNTY --- 0.5 E ELGIN [46.40, -101.84]				
	07/16/16 06:36 MST		0	Hail (0.88 in)
	07/16/16 06:39 MST		0	Source: Public
<hr/>				
GRANT COUNTY --- 5.9 NW LARK [46.52, -101.47]				
	07/16/16 07:15 MST		0	Hail (1.00 in)
	07/16/16 07:18 MST		0	Source: Public
<hr/>				
MERCER COUNTY --- 11.1 N GOLDEN VLY [47.44, -102.06]				
	07/16/16 08:50 CST		0	Hail (1.00 in)
	07/16/16 08:54 CST		0	Source: Trained Spotter
<hr/>				
MCLEAN COUNTY --- 3.9 SE WASHBURN [47.24, -100.96]				
	07/16/16 10:55 CST		0	Hail (0.88 in)
	07/16/16 10:58 CST		0	Source: Public

Storm Data and Unusual Weather Phenomena - July 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MCLEAN COUNTY --- 3.9 SE WASHBURN [47.24, -100.96]				
	07/16/16 10:55 CST		0	Thunderstorm Wind (EG 52 kt)
	07/16/16 10:58 CST		0	Source: Public
The public estimated thunderstorm wind gusts of 60 mph.				
MCLEAN COUNTY --- 6.4 SSE WASHBURN [47.20, -100.95]				
	07/16/16 11:00 CST		0	Hail (1.00 in)
	07/16/16 11:03 CST		0	Source: Public
BURLEIGH COUNTY --- 2.1 SSW BALDWIN [47.00, -100.78]				
	07/16/16 12:19 CST		0	Hail (1.00 in)
	07/16/16 12:22 CST		0	Source: Trained Spotter
BURLEIGH COUNTY --- 0.7 N WING [47.14, -100.28]				
	07/16/16 12:30 CST		0	Thunderstorm Wind (EG 52 kt)
	07/16/16 12:33 CST		0	Source: Public
The public estimated thunderstorm wind gusts of 60 mph.				
BURLEIGH COUNTY --- 1.6 ENE ARENA [47.14, -100.14]				
	07/16/16 12:40 CST		0	Hail (1.00 in)
	07/16/16 12:45 CST		0	Source: Trained Spotter
KIDDER COUNTY --- 2.3 NNW DAWSON [46.90, -99.75]				
	07/16/16 13:30 CST		15K	Thunderstorm Wind (EG 61 kt)
	07/16/16 13:35 CST		0	Source: Public
A dock on a lake was lofted by thunderstorm winds and pushed up against a cabin downwind.				
KIDDER COUNTY --- 4.3 NNE DAWSON [46.93, -99.71]				
	07/16/16 13:40 CST		0	Thunderstorm Wind (EG 52 kt)
	07/16/16 13:43 CST		0	Source: Public
The public estimated thunderstorm wind gusts of 60 mph.				
STUTSMAN COUNTY --- 1.2 NE MEDINA [46.89, -99.28]				
	07/16/16 14:20 CST		25K	Thunderstorm Wind (EG 70 kt)
	07/16/16 14:24 CST		35K	Source: Public
Numerous trees were blown over by thunderstorm wind gusts.				
SIOUX COUNTY --- SOLEN [46.39, -100.80]				
	07/16/16 14:23 MST		0	Hail (1.75 in)
	07/16/16 16:23 MST		0	Source: Trained Spotter
STUTSMAN COUNTY --- 0.7 S BUCHANAN [47.06, -98.83]				
	07/16/16 15:05 CST		0	Hail (0.88 in)
	07/16/16 15:08 CST		0	Source: Trained Spotter
BURLEIGH COUNTY --- 3.6 SSE MC KENZIE [46.77, -100.38]				
	07/16/16 15:12 CST		0	Hail (1.00 in)
	07/16/16 15:15 CST		0	Source: Public
BURLEIGH COUNTY --- 3.5 S MOFFIT [46.63, -100.29]				
	07/16/16 15:51 CST		0	Hail (1.00 in)
	07/16/16 15:54 CST		0	Source: Public

Supercell thunderstorms developed along a surface trough over south central North Dakota in an environment with elevated instability

Storm Data and Unusual Weather Phenomena - July 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
and deep layer shear. The storms produced a mix of strong wind gusts and large hail as they moved to the east.				
<hr/>				
MOUNTRAIL COUNTY --- 3.1 ESE PALERMO [48.31, -102.16], 3.6 WSW BLAISDELL [48.31, -102.14]				
	07/20/16 15:42 CST	0		Tornado (EF0, L: 0.95 mi , W: 30 yd)
	07/20/16 15:46 CST	0		Source: Law Enforcement
<hr/>				
A tornado touched down in a rural area south of Palermo and traveled nearly one mile . No damage, injuries, or fatalities were reported. No structures were impacted and so the tornado was rated EF-0.				
<hr/>				
MOUNTRAIL COUNTY --- TAGUS [48.35, -101.93]				
	07/20/16 16:02 CST	0		Hail (1.75 in)
	07/20/16 16:05 CST	0		Source: Trained Spotter
<hr/>				
WARD COUNTY --- 0.8 SSW BERTHOLD [48.31, -101.74]				
	07/20/16 16:23 CST		0.10M	Hail (2.75 in)
	07/20/16 16:26 CST		50K	Source: Law Enforcement
<hr/>				
WARD COUNTY --- 2.0 WNW BURLINGTON [48.29, -101.46]				
	07/20/16 16:34 CST	0		Hail (1.00 in)
	07/20/16 16:37 CST	0		Source: Trained Spotter
<hr/>				
WARD COUNTY --- 2.0 WNW BURLINGTON [48.29, -101.46]				
	07/20/16 16:47 CST	0		Hail (1.00 in)
	07/20/16 16:50 CST	0		Source: Trained Spotter
<hr/>				
GRANT COUNTY --- 4.0 NW NEW LEIPZIG [46.41, -102.01]				
	07/20/16 16:52 MST	0		Hail (1.00 in)
	07/20/16 16:55 MST	0		Source: Public
<hr/>				
GRANT COUNTY --- ELGIN [46.40, -101.85]				
	07/20/16 17:10 MST	0		Hail (1.25 in)
	07/20/16 17:13 MST	0		Source: Public
<hr/>				
GRANT COUNTY --- NEW LEIPZIG [46.37, -101.95]				
	07/20/16 17:29 MST	0		Hail (1.00 in)
	07/20/16 17:33 MST	0		Source: Trained Spotter
<hr/>				
MCHENRY COUNTY --- 1.7 SSW DENBIGH [48.30, -100.60]				
	07/20/16 17:56 CST	0		Hail (0.88 in)
	07/20/16 17:59 CST	0		Source: Public
<hr/>				
ROLETTE COUNTY --- 6.9 WNW ST JOHN [48.97, -99.83]				
	07/20/16 18:16 CST	0		Hail (1.00 in)
	07/20/16 18:19 CST	0		Source: Public
<hr/>				
ROLETTE COUNTY --- 6.9 WNW ST JOHN [48.97, -99.83]				
	07/20/16 18:16 CST	0		Thunderstorm Wind (EG 52 kt)
	07/20/16 18:19 CST	0		Source: Public
<hr/>				
The public estimated thunderstorm wind gusts of 60 mph.				
<hr/>				
MCHENRY COUNTY --- 6.9 N GUTHRIE [48.10, -100.38]				
	07/20/16 18:20 CST	0		Hail (1.00 in)
	07/20/16 18:24 CST	0		Source: Trained Spotter
<hr/>				
OLIVER COUNTY --- 10.4 W HANNOVER [47.11, -101.65]				
	07/20/16 18:50 CST	0		Hail (1.00 in)
	07/20/16 18:53 CST	0		Source: Trained Spotter

Storm Data and Unusual Weather Phenomena - July 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MERCER COUNTY --- 5.9 SE STANTON [47.26, -101.29]				
	07/20/16 19:35 CST		0	Hail (1.00 in)
	07/20/16 19:39 CST		0	Source: Trained Spotter
PIERCE COUNTY --- 10.1 NNW SELZ [47.99, -99.94]				
	07/20/16 19:37 CST		0	Hail (1.00 in)
	07/20/16 19:40 CST		0	Source: Trained Spotter
OLIVER COUNTY --- CENTER [47.12, -101.30]				
	07/20/16 19:59 CST		0	Hail (1.00 in)
	07/20/16 20:03 CST		0	Source: Public
PIERCE COUNTY --- 9.4 NNW SELZ [47.98, -99.94]				
	07/20/16 20:00 CST		0	Hail (1.00 in)
	07/20/16 20:04 CST		0	Source: Public
OLIVER COUNTY --- CENTER [47.12, -101.30]				
	07/20/16 20:10 CST		0	Hail (1.25 in)
	07/20/16 20:13 CST		0	Source: Public
OLIVER COUNTY --- 2.3 SSE HANNOVER [47.09, -101.41]				
	07/20/16 20:12 CST		0	Funnel Cloud
	07/20/16 20:15 CST		0	Source: Trained Spotter
OLIVER COUNTY --- CENTER [47.12, -101.30]				
	07/20/16 20:23 CST		0	Hail (1.25 in)
	07/20/16 20:26 CST		0	Source: Trained Spotter
SHERIDAN COUNTY --- 6.2 N MCCLUSKY [47.57, -100.44]				
	07/20/16 20:25 CST		0	Hail (1.00 in)
	07/20/16 20:28 CST		0	Source: Public
SHERIDAN COUNTY --- 0.8 NE MCCLUSKY [47.49, -100.44]				
	07/20/16 20:32 CST		50K	Hail (2.50 in)
	07/20/16 20:36 CST		20K	Source: Trained Spotter
SHERIDAN COUNTY --- 5.6 NE MCCLUSKY [47.54, -100.37]				
	07/20/16 20:32 CST		30K	Hail (2.50 in)
	07/20/16 20:36 CST		20K	Source: Trained Spotter
OLIVER COUNTY --- 7.7 S CENTER [47.01, -101.32]				
	07/20/16 20:35 CST		0	Hail (1.50 in)
	07/20/16 20:39 CST		0	Source: Public
FOSTER COUNTY --- CARRINGTON ARPT [47.45, -99.15]				
	07/20/16 21:40 CST		0	Thunderstorm Wind (MG 52 kt)
	07/20/16 21:44 CST		0	Source: AWOS
<p>Thunderstorms formed along a frontal boundary over western North Dakota in the afternoon in an environment with extremely high instability. Initial storms that developed produced a tornado over Mountrail County. The severe threat then quickly shifted primarily towards large hail as the storms progressed east.</p>				
EMMONS COUNTY --- 5.0 WNW LINTON MUNI ARPT [46.24, -100.33]				
	07/22/16 10:57 CST		0	Hail (0.75 in)
	07/22/16 10:59 CST		0	Source: Trained Spotter
EMMONS COUNTY --- 1.0 W HAGUE [46.03, -100.00]				

Storm Data and Unusual Weather Phenomena - July 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/22/16 11:30 CST		0	Hail (1.00 in)
	07/22/16 11:31 CST		0	Source: COOP Observer
<hr/>				
BOWMAN COUNTY --- 12.7 WSW RHAME [46.15, -103.89]				
	07/22/16 16:05 MST		0	Hail (1.00 in)
	07/22/16 16:08 MST		0	Source: Trained Spotter
<hr/>				
SIOUX COUNTY --- 0.8 NE SELFRIDGE [46.04, -100.92]				
	07/22/16 16:06 MST		0	Hail (0.88 in)
	07/22/16 16:09 MST		0	Source: Law Enforcement
<hr/>				
SIOUX COUNTY --- 0.7 N SELFRIDGE [46.04, -100.93]				
	07/22/16 16:25 MST		0	Hail (1.00 in)
	07/22/16 16:28 MST		0	Source: Public
<hr/>				
SIOUX COUNTY --- 1.2 NE SELFRIDGE [46.04, -100.91]				
	07/22/16 16:47 MST		0	Hail (1.00 in)
	07/22/16 16:52 MST		0	Source: Trained Spotter
<hr/>				
SIOUX COUNTY --- 4.8 N SELFRIDGE [46.10, -100.93]				
	07/22/16 16:55 MST		0	Hail (1.00 in)
	07/22/16 16:58 MST		0	Source: Other Federal Agency
<hr/>				
GRANT COUNTY --- 16.6 N ELGIN [46.64, -101.84]				
	07/22/16 17:05 MST		0	Thunderstorm Wind (EG 56 kt)
	07/22/16 17:08 MST		0	Source: Public
<hr/>				
The public estimated thunderstorm wind gusts of 65 mph.				
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GRANT COUNTY --- 13.8 N ELGIN MUNI ARPT [46.60, -101.81]				
	07/22/16 17:10 MST		0	Hail (1.00 in)
	07/22/16 17:13 MST		0	Source: Public
<hr/>				
STARK COUNTY --- 7.5 SE BELFIELD [46.79, -103.11]				
	07/22/16 17:50 MST		0	Thunderstorm Wind (EG 52 kt)
	07/22/16 17:53 MST		0	Source: Public
<hr/>				
The public estimated thunderstorm wind gusts of 60 mph.				
<hr/>				
MORTON COUNTY --- 6.0 SSE GLEN ULLIN [46.74, -101.78]				
	07/22/16 18:15 CST		0	Thunderstorm Wind (EG 52 kt)
	07/22/16 18:18 CST		0	Source: Trained Spotter
<hr/>				
A trained spotter estimated thunderstorm wind gusts of 60 mph.				
<hr/>				
WILLIAMS COUNTY --- 2.8 S TRENTON [48.03, -103.86]				
	07/22/16 20:52 CST		0	Hail (1.00 in)
	07/22/16 20:56 CST		0	Source: Trained Spotter
<hr/>				
WILLIAMS COUNTY --- 1.7 NNE (ISN)SLOULIN FLD WIL [48.20, -103.63]				
	07/22/16 21:13 CST		0	Hail (1.00 in)
	07/22/16 21:16 CST		0	Source: Public
<hr/>				
WILLIAMS COUNTY --- 0.5 W WILLISTON [48.15, -103.63]				
	07/22/16 21:19 CST		0	Funnel Cloud
	07/22/16 21:21 CST		0	Source: Public

A warm front lifted through the area in the afternoon with low level moisture rapidly increasing in its wake. This resulted in very strong instability developing over much of western into south central North Dakota. An early storm developed around mid-day as the front lifted

Storm Data and Unusual Weather Phenomena - July 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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over south central North Dakota, though the main area of thunderstorms developed later in the day over southeast Montana into northwest South Dakota as a short wave approached. These thunderstorms then moved into western North Dakota producing marginally severe hail and wind gusts.

SHERIDAN COUNTY --- 5.9 WSW MARTIN [47.80, -100.24]

	07/23/16 05:30 CST	0	0	Funnel Cloud
	07/23/16 05:35 CST	0	0	Source: Trained Spotter

KIDDER COUNTY --- 4.3 SSE STEELE MUNI ARPT [46.79, -99.96]

	07/23/16 08:12 CST	0	0	Hail (1.00 in)
	07/23/16 08:15 CST	0	0	Source: Trained Spotter

Thunderstorms developed in the early morning over western and central North Dakota ahead of an approaching cold front. One storm produced a funnel cloud over Sheridan County, while another produced one inch diameter hail in Kidder County.

MCINTOSH COUNTY --- ASHLEY [46.03, -99.37]

	07/26/16 08:42 CST	0	0	Hail (0.88 in)
	07/26/16 08:45 CST	0	0	Source: Law Enforcement

MORTON COUNTY --- 0.7 N FLASHER [46.46, -101.23]

	07/26/16 17:25 CST	0	0	Hail (1.50 in)
	07/26/16 17:27 CST	0	0	Source: COOP Observer

MORTON COUNTY --- 0.7 N FLASHER [46.46, -101.23]

	07/26/16 17:26 CST	50K	0	Hail (1.75 in)
	07/26/16 17:29 CST	20K	0	Source: Public

MORTON COUNTY --- 2.8 SE FLASHER [46.42, -101.19]

	07/26/16 17:30 CST	0	0	Funnel Cloud
	07/26/16 17:32 CST	0	0	Source: Public

SIOUX COUNTY --- 4.2 NW FT YATES [46.13, -100.68]

	07/26/16 17:45 MST	0	0	Hail (1.00 in)
	07/26/16 17:48 MST	0	0	Source: Public

GRANT COUNTY --- 1.5 SSW FREDA [46.33, -101.18], 1.5 SSW FREDA [46.33, -101.18]

	07/26/16 17:50 MST	0	0	Tornado (EF0, L: 0.09 mi , W: 20 yd)
	07/26/16 17:51 MST	0	0	Source: Public

The tornado was on the ground for about one minute and traveled less than one-tenth of a mile over a rural area. No injuries or deaths were reported, and no damage occurred. As a result of the tornado hitting no structures it was rated EF-0.

A series of weak short waves moved through the region with scattered thunderstorms developing over central North Dakota. A storm earlier in the day produced sub-severe hail over McIntosh County. Later in the day a few storms became severe with large hail over Morton and Sioux Counties in south central North Dakota, while another storm produced a short-lived EF-0 tornado over Grant County.

SHERIDAN COUNTY --- 3.6 SW MCCLUSKY [47.44, -100.50]

	07/29/16 13:30 CST	0	0	Funnel Cloud
	07/29/16 13:32 CST	0	0	Source: Public

LOGAN COUNTY --- 5.5 S NAPOLEON [46.42, -99.77]

	07/29/16 13:50 CST	0	0	Funnel Cloud
	07/29/16 13:52 CST	0	0	Source: NWS Employee

Weak showers and thunderstorms developed as a short wave pushed southeast into North Dakota. Two funnel clouds were reported, with one in Sheridan County and the other in Logan County.

BOWMAN COUNTY --- 19.4 SSW RHAME [45.96, -103.76]

	07/31/16 14:55 MST	0	0	Hail (1.00 in)
	07/31/16 14:58 MST	0	0	Source: Public

Storm Data and Unusual Weather Phenomena - July 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
DUNN COUNTY --- 12.4 N KILLDEER [47.55, -102.78]				
	07/31/16 16:55 MST		0	Hail (1.00 in)
	07/31/16 16:58 MST		0	Source: Trained Spotter
MOUNTRAIL COUNTY --- 5.6 S ROSS [48.24, -102.55]				
	07/31/16 17:05 CST		0	Hail (1.25 in)
	07/31/16 17:08 CST		0	Source: Public
MOUNTRAIL COUNTY --- 0.7 S STANLEY [48.31, -102.38]				
	07/31/16 17:12 CST		0	Hail (1.00 in)
	07/31/16 17:15 CST		0	Source: Trained Spotter
MOUNTRAIL COUNTY --- 6.5 W BELDEN [48.15, -102.49]				
	07/31/16 17:19 CST		0	Hail (1.00 in)
	07/31/16 17:23 CST		0	Source: Trained Spotter
MOUNTRAIL COUNTY --- 6.9 N NEW TOWN ARPT [48.10, -102.48]				
	07/31/16 17:30 CST		0	Hail (1.00 in)
	07/31/16 17:33 CST		0	Source: Public
MOUNTRAIL COUNTY --- 6.1 NW NEW TOWN ARPT [48.07, -102.56]				
	07/31/16 17:33 CST		0	Funnel Cloud
	07/31/16 17:37 CST		0	Source: Public
MOUNTRAIL COUNTY --- 0.5 W NEW TOWN [47.98, -102.49]				
	07/31/16 18:05 CST		0.15M	Thunderstorm Wind (EG 65 kt)
	07/31/16 18:15 CST		0.10M	Source: Public
A pickup-truck pulling a camper and boat was blown into the guard rail on Four Bears Bridge. Also, a metal roof blew off an industrial building.				
MOUNTRAIL COUNTY --- 1.3 WSW NEW TOWN ARPT [47.99, -102.50], 1.5 SSE NEW TOWN [47.96, -102.47]				
	07/31/16 18:18 CST		0.25M	Hail (2.00 in)
	07/31/16 18:25 CST		0.15M	Source: Public
A slow moving supercell thunderstorm produced hail up to two inches in diameter along with wind gusts to 60 mph in and near the city of New Town.				
MOUNTRAIL COUNTY --- 6.5 E NEW TOWN [47.98, -102.34]				
	07/31/16 18:41 CST		0.10M	Thunderstorm Wind (EG 65 kt)
	07/31/16 18:46 CST		0.10M	Source: COOP Observer
Severe thunderstorm wind gusts caused a camper to overturn into a ditch near the intersection of North Dakota Highways 8 and 23.				
MOUNTRAIL COUNTY --- 4.2 S SANISH [47.92, -102.58]				
	07/31/16 18:45 CST		0.15M	Thunderstorm Wind (EG 70 kt)
	07/31/16 18:49 CST		0.10M	Source: Trained Spotter
A grain bin was blown off its foundation and into a wheat field.				
MOUNTRAIL COUNTY --- 5.5 S SANISH [47.90, -102.57]				
	07/31/16 19:40 CST		0	Hail (0.88 in)
	07/31/16 19:44 CST		0	Source: Public

A surface low situated over eastern Montana led to increasing low level moisture over western and central North Dakota. Thunderstorms developed in the late afternoon and early evening as a strong short wave pushed into the area. Some storms over western North Dakota became severe, though a notable slow moving supercell developed near New Town causing significant crop and property damage in that area of Mountrail County and Fort Berthold.