

## Storm Data and Unusual Weather Phenomena - July 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>NORTH DAKOTA, Central and West</b>				
<b>HETTINGER COUNTY --- 12.7 NNE MOTT [46.55, -102.22]</b>				
	07/05/14 16:28 MST		30K	Hail (1.75 in)
	07/05/14 16:34 MST		50K	Source: Emergency Manager
<b>HETTINGER COUNTY --- 0.8 SW MOTT [46.37, -102.33]</b>				
	07/05/14 16:30 MST		0	Thunderstorm Wind (MG 52 kt)
	07/05/14 16:36 MST		0	Source: Trained Spotter
No damage was reported.				
<b>GRANT COUNTY --- 14.2 NNW ELGIN [46.58, -101.98], 16.3 NNE ELGIN MUNI ARPT [46.63, -101.76]</b>				
	07/05/14 16:55 MST		0.75M	Hail (3.25 in)
	07/05/14 17:10 MST	3	0.20M	Source: Law Enforcement
There were numerous reports of golf ball to over baseball size hail across the Lake Tschida and Heart Butte Dam area resulting in significant damage to vehicles, campers, and trailer homes in the recreational area. In addition three people received non-life threatening head injuries from the hail. They were treated at the scene.				
<b>MORTON COUNTY --- 11.1 S JUDSON [46.67, -101.26]</b>				
	07/05/14 18:45 CST		0	Hail (1.00 in)
	07/05/14 18:50 CST		0	Source: Trained Spotter
<b>MORTON COUNTY --- 7.1 WNW HUFF [46.67, -100.78]</b>				
	07/05/14 19:17 CST		0	Hail (1.00 in)
	07/05/14 19:22 CST		0	Source: Trained Spotter
Strong thunderstorm winds accompanied the large hail.				
<b>MORTON COUNTY --- 7.1 WNW HUFF [46.67, -100.78]</b>				
	07/05/14 19:17 CST		0.10M	Thunderstorm Wind (EG 65 kt)
	07/05/14 19:22 CST		35K	Source: Trained Spotter
Large hail accompanied the strong thunderstorm winds with damage to structures and crops.				
<b>MORTON COUNTY --- 6.2 W HUFF [46.62, -100.78]</b>				
	07/05/14 19:27 CST		0	Thunderstorm Wind (EG 65 kt)
	07/05/14 19:33 CST		0	Source: Trained Spotter
Large hail accompanied the strong thunderstorm winds.				
<b>MORTON COUNTY --- 6.2 W HUFF [46.62, -100.78]</b>				
	07/05/14 19:27 CST		45K	Hail (1.50 in)
	07/05/14 19:33 CST		0	Source: Trained Spotter
Strong thunderstorm winds accompanied the large hail and broke windows and damaged vehicles and equipment.				
<b>MORTON COUNTY --- 7.1 WNW HUFF [46.67, -100.78]</b>				
	07/05/14 19:27 CST		30K	Thunderstorm Wind (EG 65 kt)
	07/05/14 19:32 CST		0	Source: Trained Spotter
Strong thunderstorm winds resulted in a barn roof being blown off and carried 200 yards.				
<b>BURLEIGH COUNTY --- 7.7 S (BIS)BISMARCK MUNI A [46.67, -100.73], 7.8 SE (BIS)BISMARCK MUNI A [46.69, -100.66]</b>				
	07/05/14 19:30 CST		0	Hail (1.00 in)
	07/05/14 19:40 CST		0	Source: Amateur Radio
Quarter size hail accompanied strong thunderstorm winds.				

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<b>BURLEIGH COUNTY --- 7.8 S (BIS)BISMARCK MUNI A [46.67, -100.73], 7.7 SSE (BIS)BISMARCK MUNI A [46.69, -100.66]</b>				
	07/05/14 19:30 CST		0.18M	Thunderstorm Wind (EG 65 kt)
	07/05/14 19:40 CST		0	Source: Law Enforcement
Severe thunderstorm winds estimated at 75 miles per hour resulted in extensive damage across the Kimball Bottoms Recreation Area south of Bismarck . Several large cottonwood trees were snapped. Four vehicles where heavily damaged when the trees fell on them, and one camper trailer was crushed. No injuries occurred.				
<b>BURLEIGH COUNTY --- 1.9 E MOFFIT [46.68, -100.24]</b>				
	07/05/14 19:50 CST		0	Thunderstorm Wind (MG 65 kt)
	07/05/14 19:59 CST		0	Source: Mesonet
<b>BURLEIGH COUNTY --- 6.3 WSW MOFFIT [46.66, -100.41]</b>				
	07/05/14 19:50 CST		10K	Thunderstorm Wind (EG 61 kt)
	07/05/14 19:55 CST		0	Source: Trained Spotter
Tree limbs were blown down due to the high winds.				
<b>BURLEIGH COUNTY --- 6.3 WSW MOFFIT [46.66, -100.41]</b>				
	07/05/14 19:50 CST		0	Hail (1.00 in)
	07/05/14 19:57 CST		0	Source: Trained Spotter
Strong winds accompanied the large hail.				
<b>KIDDER COUNTY --- 11.3 SSE STEELE [46.69, -99.85]</b>				
	07/05/14 20:22 CST		0	Hail (1.00 in)
	07/05/14 20:27 CST		0	Source: Trained Spotter
<b>KIDDER COUNTY --- 11.8 S TAPPEN [46.70, -99.62]</b>				
	07/05/14 20:32 CST		10K	Thunderstorm Wind (EG 56 kt)
	07/05/14 20:42 CST		0	Source: Trained Spotter
Many small tree limbs were blown down due to the strong winds.				
<b>KIDDER COUNTY --- 11.8 S TAPPEN [46.70, -99.62]</b>				
	07/05/14 20:32 CST		40K	Hail (1.50 in)
	07/05/14 20:42 CST		0	Source: Trained Spotter
There was hail damage to roofs and vehicles.				
<b>KIDDER COUNTY --- 6.2 S PETTIBONE [47.03, -99.52]</b>				
	07/05/14 21:20 CST		0	Hail (1.25 in)
	07/05/14 21:25 CST		0	Source: Trained Spotter
Severe Thunderstorm Watch number 393 was in effect during this event.				
A very warm and humid environment led to Mean Layer CAPE values greater than 4000 Joules/Kilogram across the watch area. Isolated thunderstorms developed along a surface trough axis, and became severe as a mid level short wave provided modest forcing for ascent and an increase in bulk wind shear. Most of the severe weather reports were associated with one long lasting severe thunderstorm.				
<b>WILLIAMS COUNTY --- 9.1 SSW GRENORA [48.50, -104.01]</b>				
	07/06/14 18:15 CST		0	Hail (1.00 in)
	07/06/14 18:20 CST		0	Source: Trained Spotter
<b>WILLIAMS COUNTY --- 5.0 SSW ALAMO [48.51, -103.50]</b>				
	07/06/14 18:17 CST		0	Hail (1.00 in)
	07/06/14 18:22 CST		0	Source: Trained Spotter
<b>WILLIAMS COUNTY --- 4.8 S ALAMO [48.51, -103.47]</b>				

## Storm Data and Unusual Weather Phenomena - July 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/06/14 18:18 CST		0.13M	Hail (2.00 in)
	07/06/14 18:23 CST		75K	Source: Public

There was a lot of crop and property damage reported.

### MCKENZIE COUNTY --- 4.7 NW KEENE [47.98, -103.02]

07/06/14 18:21 MST	0	Funnel Cloud
07/06/14 18:25 MST	0	Source: Public

A funnel cloud came within approximately 150 feet of the ground. Reports were that there was no debris visible at the surface and that there was no damage.

### MCKENZIE COUNTY --- 5.8 SSE CHARLSON [47.99, -102.83]

07/06/14 18:25 MST	45K	Thunderstorm Wind (EG 70 kt)
07/06/14 18:35 MST	25K	Source: Law Enforcement

Severe thunderstorm winds destroyed a garage, blowing it off of its foundation. Based on the position of the storm and this report, these winds were likely associated with the rear flank downdraft of this severe thunderstorm that also produced a tornado as well in McKenzie County. See the McKenzie County tornado entry.

### MCKENZIE COUNTY --- 6.6 ESE CHARLSON [48.03, -102.74], 10.2 ESE CHARLSON [47.99, -102.69]

07/06/14 18:25 MST	0	Tornado (EF0, L: 3.77 mi , W: 40 yd)
07/06/14 18:31 MST	0	Source: Social Media

This was a public report, through social media, of a tornado west of New Town, in McKenzie County. The person was uncertain of the exact location from a nearby town and so the location was estimated based on radar data. Through social media there was visual evidence of this tornado with debris visible on the ground, in open country. There were no reports of damage in real time nor in follow up contact with county officials. The tornado was therefore rated EF0. There was wind damage, likely associated with the rear flank downdraft of the parent severe thunderstorm, to the southwest of this tornado track in McKenzie County. See the entry for wind damage in McKenzie County.

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

07/06/14 18:50 CST	0	Thunderstorm Wind (EG 61 kt)
07/06/14 19:00 CST	0	Source: Public

Large hail accompanied the strong winds.

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

07/06/14 18:50 CST	75K	Hail (1.25 in)
07/06/14 19:00 CST	0	Source: Public

Wind driven hail resulted in damage to homes and vehicles in the city of Ray.

### WILLIAMS COUNTY --- 8.6 SE RAY [48.26, -103.04]

07/06/14 19:00 CST	0	Hail (1.75 in)
07/06/14 19:10 CST	0	Source: Trained Spotter

Strong winds accompanied the large hail.

### WILLIAMS COUNTY --- 8.6 SE RAY [48.26, -103.04]

07/06/14 19:00 CST	65K	Thunderstorm Wind (EG 61 kt)
07/06/14 19:10 CST	0	Source: Trained Spotter

The strong winds knocked a wind charger tower over onto a car. Hail accompanied the high winds.

### WILLIAMS COUNTY --- 14.0 SSE SPRING BROOK [48.07, -103.33]

07/06/14 19:11 CST	0	Funnel Cloud
07/06/14 19:18 CST	0	Source: Public

The report was that the funnel never did touch the ground.

### MOUNTRAIL COUNTY --- 1.9 E SANISH [47.98, -102.53]

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	07/06/14 19:30 CST		0	Hail (1.00 in)
	07/06/14 19:35 CST		0	Source: Trained Spotter
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<b>MOUNTRAIL COUNTY --- 1.9 E SANISH [47.98, -102.53]</b>				
	07/06/14 19:30 CST		3K	Thunderstorm Wind (EG 52 kt)
	07/06/14 19:35 CST		0	Source: Trained Spotter
Large hail accompanied the strong winds. Damage was not significant.				
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<b>MOUNTRAIL COUNTY --- 0.5 W NEW TOWN [47.98, -102.49]</b>				
	07/06/14 19:35 CST		0.18M	Hail (1.75 in)
	07/06/14 19:43 CST		0.10M	Source: Social Media
Numerous work trucks in the New Town area had windows broken due to the wind driven golf ball size hail. There was also crop damage.				
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<b>MOUNTRAIL COUNTY --- 5.0 SSW SANISH [47.91, -102.60]</b>				
	07/06/14 19:35 CST		0	Funnel Cloud
	07/06/14 19:40 CST		0	Source: Public
A funnel cloud persisted for several minutes before dissipating. The same storm produced a brief EF0 tornado in northeast McKenzie County earlier.				
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<b>MERCER COUNTY --- 11.2 N ZAP [47.44, -101.96]</b>				
	07/06/14 20:25 CST		0	Thunderstorm Wind (EG 61 kt)
	07/06/14 20:30 CST		0	Source: Trained Spotter
Large hail accompanied the strong winds.				
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<b>MERCER COUNTY --- 11.2 N ZAP [47.44, -101.96]</b>				
	07/06/14 20:25 CST		60K	Hail (1.75 in)
	07/06/14 20:30 CST		30K	Source: Trained Spotter
Strong winds accompanied the large hail. Follow up reports included damage to structures, vehicles, and crops.				
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<b>MERCER COUNTY --- 0.8 SE HAZEN [47.29, -101.62]</b>				
	07/06/14 20:42 CST		10K	Thunderstorm Wind (EG 70 kt)
	07/06/14 20:48 CST		25K	Source: Public
Large hail accompanied the strong winds. Trees were snapped and branches broken.				
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<b>MERCER COUNTY --- 0.7 S BEULAH [47.26, -101.78]</b>				
	07/06/14 20:45 CST		30K	Hail (1.75 in)
	07/06/14 20:52 CST		20K	Source: Public
There was crop, roof, and vehicle damage.				
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<b>OLIVER COUNTY --- 10.2 WNW HANNOVER [47.19, -101.62]</b>				
	07/06/14 20:46 CST		10K	Thunderstorm Wind (EG 65 kt)
	07/06/14 20:51 CST		0	Source: Trained Spotter
The strong winds snapped two twenty foot tall trees.				
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<b>MERCER COUNTY --- 0.8 SE HAZEN [47.29, -101.62]</b>				
	07/06/14 20:47 CST		0	Hail (1.50 in)
	07/06/14 20:56 CST		0	Source: Public
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<b>MERCER COUNTY --- 1.7 NE GOLDEN VLY [47.30, -102.04]</b>				
	07/06/14 20:50 CST		10K	Thunderstorm Wind (EG 61 kt)
	07/06/14 20:56 CST		0	Source: Public
Hail and heavy rain accompanied the strong winds. There was minor flooding.				

## Storm Data and Unusual Weather Phenomena - July 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>OLIVER COUNTY --- 1.2 SW HANNOVER [47.11, -101.45]</b>				
	07/06/14 21:08 CST		60K	Thunderstorm Wind (MG 74 kt)
	07/06/14 21:15 CST		0	Source: Trained Spotter
Very strong straight line thunderstorm winds resulted in extensive tree and building damage to a farmstead near Hannover . The worst of the damage occurred to a shed, which was blown apart and scattered one half of a mile downwind.				
<b>MORTON COUNTY --- 8.8 NNW NEW SALEM [46.97, -101.48]</b>				
	07/06/14 21:10 CST		0.25M	Thunderstorm Wind (EG 70 kt)
	07/06/14 21:20 CST		0	Source: Utility Company
New wind turbine blades stored on the ground and waiting to be installed were completely destroyed.				
<b>MORTON COUNTY --- 0.6 SE NEW SALEM [46.84, -101.41]</b>				
	07/06/14 21:20 CST		0.15M	Thunderstorm Wind (EG 65 kt)
	07/06/14 21:30 CST		50K	Source: Storm Chaser
Strong thunderstorm winds resulted in tree and building damage in and around the New Salem area.				
<b>MORTON COUNTY --- 2.5 NE ST ANTHONY [46.65, -100.89]</b>				
	07/06/14 21:50 CST		0	Thunderstorm Wind (MG 52 kt)
	07/06/14 21:55 CST		0	Source: Public
<b>EMMONS COUNTY --- 14.0 WSW HAZELTON [46.40, -100.55]</b>				
	07/06/14 22:14 CST		45K	Thunderstorm Wind (EG 65 kt)
	07/06/14 22:22 CST		0	Source: Public
Strong thunderstorm winds damaged a roof and deck, and destroyed a shed.				
<b>EMMONS COUNTY --- 1.0 W LINTON MUNI ARPT [46.22, -100.25]</b>				
	07/06/14 22:35 CST		0	Thunderstorm Wind (MG 54 kt)
	07/06/14 22:40 CST		0	Source: AWOS
There were no reports of damage.				
<b>Severe Thunderstorm Watch number 395 was in effect during this event.</b>				
<b>A small but intense cluster of thunderstorms formed over far northeast Montana and tracked into far northwestern North Dakota early in the evening. An isolated supercell thunderstorm originating with this cluster persisted through much of the evening as it tracked southeast into south central North Dakota, bringing a destructive path of severe weather to many communities. Steep mid level lapse rates and favorable vertical wind shear promoted this thunderstorm's longevity.</b>				
<b>A brief EF0 tornado occurred in far northeast McKenzie County during the most intense phase of this storm. Hail to the size of golf balls and winds as high as 85 miles per hour also occurred during this severe weather episode.</b>				
<b>STUTSMAN COUNTY --- 7.6 S WOODWORTH [47.04, -99.30]</b>				
	07/18/14 16:25 CST		0	Hail (0.75 in)
	07/18/14 16:29 CST		0	Source: Public
<b>STUTSMAN COUNTY --- 0.7 N CLEVELAND [46.89, -99.12]</b>				
	07/18/14 17:14 CST		0	Hail (0.88 in)
	07/18/14 17:19 CST		0	Source: Trained Spotter
<b>An isolated strong thunderstorm produced hail across Stutsman County.</b>				
<b>BOWMAN COUNTY --- BOWMAN ARPT [46.18, -103.42]</b>				
	07/21/14 11:10 MST		0	Hail (1.00 in)
	07/21/14 11:15 MST		0	Source: Trained Spotter
<b>BOWMAN COUNTY --- 0.5 W SCRANTON [46.15, -103.14]</b>				

## Storm Data and Unusual Weather Phenomena - July 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/21/14 12:18 MST		0	Hail (1.25 in)
	07/21/14 12:23 MST		0	Source: Emergency Manager
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<b>HETTINGER COUNTY --- 4.9 N NEW ENGLAND [46.60, -102.87]</b>				
	07/21/14 12:40 MST		0	Hail (0.75 in)
	07/21/14 12:45 MST		0	Source: Public
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<b>STARK COUNTY --- 6.2 S (DIK)DICKINSON MUNI [46.71, -102.79]</b>				
	07/21/14 13:07 MST		5K	Thunderstorm Wind (MG 56 kt)
	07/21/14 13:12 MST		0	Source: Trained Spotter
Tree branches were broken.				
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<b>ADAMS COUNTY --- 17.0 ENE HAYNES [46.09, -102.16]</b>				
	07/21/14 14:00 MST		0	Hail (2.75 in)
	07/21/14 14:10 MST		0	Source: Public
Most of the hail was quarter size, with a few up to the size of a baseball. Damage information was not available.				
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<b>GRANT COUNTY --- 13.2 NNW CARSON [46.60, -101.66]</b>				
	07/21/14 14:16 MST		0	Hail (1.75 in)
	07/21/14 14:21 MST		0	Source: Public
There was no information on damage.				
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<b>MORTON COUNTY --- 4.8 N GLEN ULLIN [46.89, -101.83]</b>				
	07/21/14 15:08 CST		0	Thunderstorm Wind (EG 52 kt)
	07/21/14 15:13 CST		0	Source: Trained Spotter
Heavy rain accompanied the strong winds.				
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<b>SIOUX COUNTY --- 15.4 NNW SELFRIDGE [46.22, -101.10]</b>				
	07/21/14 15:08 MST		0	Hail (1.00 in)
	07/21/14 15:13 MST		0	Source: Trained Spotter
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<b>MORTON COUNTY --- 2.4 E HEBRON [46.90, -101.98]</b>				
	07/21/14 15:23 CST		0	Thunderstorm Wind (EG 61 kt)
	07/21/14 15:27 CST		0	Source: Public
Heavy rain accompanied the strong winds.				
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<b>MORTON COUNTY --- 1.7 NE SWEET BRIAR [46.85, -101.16]</b>				
	07/21/14 15:45 CST		0	Thunderstorm Wind (EG 61 kt)
	07/21/14 15:50 CST		0	Source: Public
Heavy rain accompanied the strong winds.				
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<b>OLIVER COUNTY --- 2.0 SE CENTER [47.10, -101.27]</b>				
	07/21/14 16:03 CST		0	Thunderstorm Wind (MG 61 kt)
	07/21/14 16:13 CST		0	Source: Public
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<b>MERCER COUNTY --- 2.0 SSE STANTON [47.29, -101.36]</b>				
	07/21/14 16:05 CST		0	Thunderstorm Wind (MG 53 kt)
	07/21/14 16:10 CST		0	Source: Public
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<b>OLIVER COUNTY --- CENTER [47.12, -101.30]</b>				
	07/21/14 16:10 CST		0.10M	Thunderstorm Wind (EG 70 kt)
	07/21/14 16:30 CST		0	Source: Trained Spotter
Trees six inches in diameter were snapped in Center. Power lines were also reported down from the falling trees.				

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<b>BURLEIGH COUNTY --- 5.6 NNW FT LINCOLN [46.89, -100.66]</b>				
	07/21/14 16:24 CST		0	Thunderstorm Wind (EG 52 kt)
	07/21/14 16:29 CST		0	Source: Public
Small hail accompanied the strong winds.				
<b>BURLEIGH COUNTY --- 6.0 NNW FT LINCOLN [46.90, -100.65]</b>				
	07/21/14 16:25 CST		0	Thunderstorm Wind (EG 52 kt)
	07/21/14 16:30 CST		0	Source: Broadcast Media
Small hail accompanied the strong winds.				
<b>OLIVER COUNTY --- 5.6 WSW PRICE [47.05, -101.06]</b>				
	07/21/14 16:27 CST		0	Thunderstorm Wind (EG 61 kt)
	07/21/14 16:32 CST		0	Source: Storm Chaser
Heavy rain accompanied the strong winds.				
<b>BURLEIGH COUNTY --- 2.7 ESE (BIS)BISMARCK MUNI A [46.76, -100.70]</b>				
	07/21/14 16:33 CST		0	Thunderstorm Wind (EG 52 kt)
	07/21/14 16:38 CST		0	Source: Trained Spotter
Heavy rain accompanied the strong winds.				
<b>OLIVER COUNTY --- 2.8 S SANGER [47.14, -101.00]</b>				
	07/21/14 16:40 CST		25K	Thunderstorm Wind (EG 61 kt)
	07/21/14 16:45 CST		0	Source: Trained Spotter
Trees twelve inches in diameter were snapped by the strong winds.				
<b>BURLEIGH COUNTY --- 3.1 ENE WILTON [47.19, -100.74]</b>				
	07/21/14 16:42 CST		0	Thunderstorm Wind (EG 65 kt)
	07/21/14 16:45 CST		0	Source: Public
Heavy rain accompanied the strong winds.				
<b>OLIVER COUNTY --- 0.8 NE PRICE [47.09, -100.94]</b>				
	07/21/14 16:50 CST		45K	Thunderstorm Wind (EG 61 kt)
	07/21/14 17:00 CST		0	Source: Trained Spotter
Trees were down in the town of Price.				
<b>BURLEIGH COUNTY --- 0.8 SW DRISCOLL [46.84, -100.14]</b>				
	07/21/14 17:05 CST		0	Thunderstorm Wind (EG 52 kt)
	07/21/14 17:10 CST		0	Source: Public
Heavy rain accompanied the strong winds.				
<b>EMMONS COUNTY --- 12.8 W HAZELTON [46.48, -100.55]</b>				
	07/21/14 17:05 CST		0	Thunderstorm Wind (MG 59 kt)
	07/21/14 17:14 CST		0	Source: Amateur Radio
<b>KIDDER COUNTY --- 3.6 SSW DAWSON [46.82, -99.75]</b>				
	07/21/14 17:23 CST		0.18M	Thunderstorm Wind (EG 70 kt)
	07/21/14 17:28 CST		0	Source: NWS Storm Survey
Numerous very large trees were down around Lake Isabel, and a pontoon was flipped over. In one case a tree fell onto a lake home and crashed through the roof.				
<b>WELLS COUNTY --- 1.2 SE HEATON [47.47, -99.51]</b>				

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	07/21/14 17:50 CST		0	Thunderstorm Wind (EG 52 kt)
	07/21/14 18:00 CST		0	Source: Public
Heavy rain accompanied the strong winds.				
<b>STUTSMAN COUNTY --- 2.8 N MEDINA [46.92, -99.30]</b>				
	07/21/14 17:51 CST		25K	Thunderstorm Wind (EG 65 kt)
	07/21/14 18:02 CST		0	Source: Trained Spotter
Several trees fourteen inches in diameter were blown down.				
<b>STUTSMAN COUNTY --- 0.7 N STREETER [46.66, -99.35]</b>				
	07/21/14 17:55 CST		0	Thunderstorm Wind (EG 52 kt)
	07/21/14 18:00 CST		0	Source: Public
Heavy rain accompanied the strong winds.				
<b>FOSTER COUNTY --- 0.5 W MELVILLE [47.33, -99.04]</b>				
	07/21/14 18:15 CST		0.13M	Thunderstorm Wind (EG 74 kt)
	07/21/14 18:25 CST		0.20M	Source: NWS Storm Survey
A semi truck was blown over on Highway 281 near Melville and trees three feet in diameter were uprooted. Crop damage was extensive.				
<b>FOSTER COUNTY --- 0.5 E GRACE CITY [47.55, -98.81]</b>				
	07/21/14 18:20 CST		0.50M	Thunderstorm Wind (EG 70 kt)
	07/21/14 18:30 CST		0.10M	Source: NWS Storm Survey
Structural, tree, and crop damage occurred in and around Grace City.				
<b>FOSTER COUNTY --- 0.7 N BORDULAC [47.39, -98.97], 0.7 S GRACE CITY [47.54, -98.82]</b>				
	07/21/14 18:20 CST		2M	Thunderstorm Wind (EG 91 kt)
	07/21/14 18:35 CST		1M	Source: NWS Storm Survey
Severe thunderstorm winds of 65 to 105 miles per hour tore across Foster County causing extensive damage on many farms and in towns. Damage included grain bins destroyed, a grain elevator severely damaged, roofs torn off of outbuildings, and damage to homes. Vehicle damage was also surveyed, including to a semi tractor that was struck by a grain bin. Agricultural damage was severe and extensive.				
<b>FOSTER COUNTY --- CARRINGTON [47.45, -99.13]</b>				
	07/21/14 18:22 CST		0	Thunderstorm Wind (MG 57 kt)
	07/21/14 18:27 CST		0	Source: Trained Spotter
<b>FOSTER COUNTY --- CARRINGTON [47.45, -99.13]</b>				
	07/21/14 18:27 CST		50K	Thunderstorm Wind (EG 65 kt)
	07/21/14 18:33 CST		0	Source: Trained Spotter
A barn roof was blown off.				
<b>FOSTER COUNTY --- 2.8 W MC HENRY [47.58, -98.66]</b>				
	07/21/14 18:42 CST		0	Thunderstorm Wind (EG 52 kt)
	07/21/14 18:49 CST		0	Source: Trained Spotter
Heavy rain accompanied the strong winds.				
<b>Tornado Watch number 426 and Severe Thunderstorm Watch number 427 were both in effect during this event.</b>				
<p><b>Very high instability with CAPE around 5000 J/KG set the stage for severe thunderstorms during the afternoon and evening. Large scale ascent ahead of an upper level jet streak coupled with several embedded short wave troughs were the triggers for convection. Storm phase was initially supercellular early in this event with both large hail and strong winds reported. By the late afternoon the storms had congealed into a bowing line with widespread severe winds from the Missouri River Valley through the James River Valley. A National Weather Service damage survey determined winds as high as 105 miles per hour occurred in Foster County.</b></p>				
<b>SLOPE COUNTY --- 5.8 W MARMARTH [46.29, -104.02]</b>				



## Storm Data and Unusual Weather Phenomena - July 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/22/14 15:38 MST		0	Hail (1.00 in)
	07/22/14 15:45 MST		0	Source: Trained Spotter
<hr/>				
<b>BOWMAN COUNTY --- 5.5 S RHAME [46.15, -103.66]</b>				
	07/22/14 16:22 MST		0	Hail (1.00 in)
	07/22/14 16:27 MST		0	Source: Trained Spotter
<hr/>				
<b>BOWMAN COUNTY --- 13.1 S RHAME [46.04, -103.66]</b>				
	07/22/14 16:40 MST		0	Hail (1.00 in)
	07/22/14 16:45 MST		0	Source: Trained Spotter
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<b>BOWMAN COUNTY --- 13.7 SSW BOWMAN ARPT [46.00, -103.54]</b>				
	07/22/14 16:40 MST		0	Hail (1.00 in)
	07/22/14 16:46 MST		0	Source: Trained Spotter
<hr/>				
<b>Severe Thunderstorm Watch number 430 was in effect during this event.</b>				
<b>Scattered thunderstorms developing across southeast Montana continued into southwest North Dakota. Strong vertical wind shear and modest instability contributed to a few severe storms.</b>				
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<b>BURKE COUNTY --- 0.5 W BATTLEVIEW [48.58, -102.79]</b>				
	07/24/14 03:00 CST		0	Hail (1.25 in)
	07/24/14 03:05 CST		0	Source: Public
<hr/>				
<b>MCKENZIE COUNTY --- 0.8 NW FAIRVIEW [47.86, -104.04]</b>				
	07/24/14 03:35 MST		0	Thunderstorm Wind (EG 52 kt)
	07/24/14 03:45 MST		0	Source: Public
<hr/>				
<b>Heavy rain accompanied the strong winds.</b>				
<hr/>				
<b>MCKENZIE COUNTY --- 1.5 NNW ARNEGARD [47.84, -103.44]</b>				
	07/24/14 04:04 MST		0	Hail (1.00 in)
	07/24/14 04:09 MST		0	Source: Social Media
<hr/>				
<b>MCKENZIE COUNTY --- 0.9 E WATFORD CITY [47.80, -103.26]</b>				
	07/24/14 04:19 MST		0	Hail (1.00 in)
	07/24/14 04:24 MST		0	Source: Social Media
<hr/>				
<b>Severe Thunderstorm Watch number 438 was in effect during this event.</b>				
<b>A linear convective complex in northeast Montana crossed into northwestern North Dakota ahead of a mid level short wave impulse and near a northward advancing surface warm front. Sufficient elevated instability was present for scattered severe thunderstorms.</b>				
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<b>GOLDEN VALLEY COUNTY --- BEACH [46.92, -104.00]</b>				
	07/24/14 18:55 MST		0	Funnel Cloud
	07/24/14 18:58 MST		0	Source: Law Enforcement

A brief funnel cloud formed near Beach. This funnel cloud did not reach the surface and soon dissipated after developing.

**A funnel cloud materialized near Beach in Golden Valley County.**