

Storm Data and Unusual Weather Phenomena - July 2008

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

BOTTINEAU COUNTY --- 11.4 ENE ROTH [49.00, -100.36], 11.7 NNE BOTTINEAU ARPT [48.99, -100.34]

07/07/08 13:23 CST	0	Tornado (EF0, L: 1.05 mi , W: 30 yd)
07/07/08 13:27 CST	0	Source: Public

A tornado was reported at Lake Metigoshe, with all damage reports coming from the Canadian side of the border. The tornado lifted soon after crossing into North Dakota. Newspaper articles stated that there was damage near Lake Metigoshe in Manitoba, Canada. From the Bottineau County, North Dakota, United States side, no damage was reported.

ROLETTE COUNTY --- 7.0 N DUNSEITH [48.92, -100.05], 1.0 SSE KELVIN [48.92, -100.04]

07/07/08 13:45 CST	8K	Tornado (EF0, L: 0.49 mi , W: 50 yd)
07/07/08 13:49 CST	0	Source: Fire Department/Rescue

The Belcourt Fire Department reported a home sustained minor roof damage north of Dunseith due to a brief tornado touchdown. The damage was consistent with EF0 damage on the Enhanced Fujita Scale. Estimated wind speed based on the EF scale was 80 mph.

ROLETTE COUNTY --- 5.4 ENE SAN HAVEN [48.85, -99.92], 3.3 ENE ROLLA [48.86, -99.53]

07/07/08 13:50 CST	1.50M	Tornado (EF3, L: 17.60 mi , W: 250 yd)
07/07/08 14:45 CST	3	Source: NWS Storm Survey

By North Dakota standards this was a long lived tornado that covered many miles.

A National Weather Service storm damage survey was completed in Rolette County on July 8, the day following the event. The storm survey concluded that the total path length was 17.6 miles, with a maximum width of 250 yards. The worst damage corresponded to low end EF3 on the Enhanced Fujita Scale, with maximum estimated winds of 140 mph.

Multiple tornado sightings were reported by local officials and residents along Bureau of Indian Affairs (BIA) Highway number eight between 2:50 PM CDT and 3:10 PM CDT. The storm survey concluded that tree and structural damage along this corridor west and northwest of Belcourt corresponded to EF1 and EF2 on the Enhanced Fujita scale, or wind speeds ranging from 90 to 130 mph, with a path width ranging from 50 to 75 yards. Greater damage was surveyed north and northeast of Belcourt. Along BIA Highway number seven, a tornado path width of 250 yards was observed with significant widespread tree damage, corresponding to an EF2 rating or winds of 115 to 130 mph. Northeast of Belcourt along BIA highway number five, a home sustained heavy damage and there was one injury. Here, a rating of EF2 was assigned, with estimated wind speeds up to 135 mph. Storm reports around the immediate Belcourt area indicate a time of approximately 3:15 PM CDT for tornado impact. Seventy structures in total were impacted in the Belcourt area with varying degrees of damage.

The tornadic storm continued east hitting the north side of the city of Rolla at approximately 3:30 PM CDT. Twelve homes were destroyed and 18 homes were damaged. The homes with the most significant structural damage corresponded to an EF3 rating. From this it was determined that the maximum wind speeds here were on the order of 140 mph. Two minor injuries were also reported in the Rolla area. The tornado continued east-southeast, hitting a farmstead east of Rolla which sustained structural and tree damage consistent with an EF2 tornado, or winds around 125 mph. The tornado then crossed US Highway 281 before pushing southeast into Towner County (See National Weather Service Grand Forks, North Dakota Storm Data from July 7, 2008).

In the early afternoon hours of Monday, July 7th, isolated thunderstorms developed over southwestern Manitoba, Canada, as a result of an upper level short wave trough tracking east across south central Canada. Maximized low level wind shear along a surface boundary over north central North Dakota, along with low lifted condensation levels, created a favorable environment for low level mesocyclones and the development of isolated tornadoes.

The end result was a tornadic supercellular thunderstorm developing near Lake Metigoshe. It tracked east-southeast through northeastern Bottineau County and across northern Rolette County, before exiting into Towner County (Grand Forks, North Dakota County Warning Area) later in the afternoon. A storm survey conducted the following day found tornado damage in the Belcourt and Rolla areas, with the heaviest damage observed on the north side of Rolla. There were injuries from the tornadoes, but there were no deaths. Estimated damage was around one and a half million dollars.

FOSTER COUNTY --- 0.5 E CARRINGTON [47.45, -99.12]

07/07/08 15:00 CST	0	Hail (0.75 in)
07/07/08 15:15 CST	0	Source: Law Enforcement

FOSTER COUNTY --- 2.1 NNE MELVILLE [47.36, -99.02]

07/07/08 15:05 CST	0	Hail (1.00 in)
07/07/08 15:29 CST	0	Source: Mesonet

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In the mid afternoon hours of Monday, July 7th, Severe Thunderstorm Watch 664 was issued for parts of south central North Dakota in anticipation of an increasing severe thunderstorm threat as an upper level shortwave trough moved east-southeast across the state. Two reports of large hail were received later that afternoon in Foster County, in addition to the earlier significant tornado further to the north across Rolette County. See the July 7 Tornadoic Thunderstorm Event for further details on the tornado.

ADAMS COUNTY --- 6.4 WNW PETREL [46.02, -102.18]

07/09/08 17:40 MST		0		Hail (0.75 in)
07/09/08 17:45 MST		0		Source: Trained Spotter

Scattered thunderstorms moving across southwest and into south central North Dakota prompted severe thunderstorm warnings during the evening of Wednesday, July 9th. One report of large hail was received from Adams County.

MCINTOSH COUNTY --- 4.0 SE WISHEK MUNI ARPT [46.19, -99.47]

07/10/08 01:15 CST		0		Hail (1.00 in)
07/10/08 01:20 CST		0		Source: Public

Scattered thunderstorms moving across south central North Dakota prompted several severe thunderstorm warnings during the late evening of Wednesday, July 9th, through the early morning hours of Thursday, July 10th. One report of large hail was received from McIntosh County early Thursday morning.

MERCER COUNTY --- 4.0 N BEULAH [47.33, -101.78]

07/10/08 14:10 MST		0		Hail (0.75 in)
07/10/08 14:20 MST		0		Source: Other Federal Agency

This report was from the Severe Hail Verification Experiment. No damage was reported.

MERCER COUNTY --- 4.0 NE HAZEN MUNI ARPT [47.34, -101.53]

07/10/08 14:15 MST		0		Hail (1.75 in)
07/10/08 14:30 MST		0		Source: Other Federal Agency

This report was from the Severe Hail Verification Experiment. No damage was reported.

SIOUX COUNTY --- 32.1 W SELFRIDGE [45.99, -101.60]

07/10/08 14:41 MST		0		Hail (1.00 in)
07/10/08 14:49 MST		0		Source: Trained Spotter

GRANT COUNTY --- 8.2 NNE ELGIN MUNI ARPT [46.50, -101.74]

07/10/08 15:00 MST		0		Hail (1.75 in)
07/10/08 15:20 MST		0		Source: Other Federal Agency

This report was from the Severe Hail Verification Experiment. No damage was reported.

GRANT COUNTY --- 0.7 N LARK [46.46, -101.40]

07/10/08 15:45 MST		0		Hail (1.75 in)
07/10/08 16:00 MST		0		Source: Trained Spotter

Hail up to golf ball size lasted for 15 minutes. No damage reports were received.

MCLEAN COUNTY --- 4.7 WSW UNDERWOOD [47.42, -101.22]

07/10/08 15:45 CST		0		Hail (0.75 in)
07/10/08 15:51 CST		0		Source: Public

GRANT COUNTY --- 1.0 NNW LARK [46.46, -101.41], 1.0 NNE LARK [46.46, -101.39]

07/10/08 16:01 MST		0		Tornado (EF0, L: 0.77 mi , W: 30 yd)
07/10/08 16:12 MST		0		Source: Trained Spotter

A tornado was reported by a trained spotter as being on the ground around 8 miles west of Flasher. Flasher is in Morton County. The tornado was reported to be in Grant County, and lifted while it was still in Grant County. No structures were impacted and so there was no damage.

GRANT COUNTY --- 2.9 WSW FREDIA [46.34, -101.23]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/10/08 16:05 MST		0	Hail (0.75 in)
	07/10/08 16:14 MST		0	Source: Trained Spotter
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GRANT COUNTY --- 2.9 ENE LARK [46.46, -101.34]				
	07/10/08 16:06 MST		0	Hail (1.50 in)
	07/10/08 16:15 MST		0	Source: Public
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No damage was reported.				
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MCLEAN COUNTY --- 0.8 NW WASHBURN [47.29, -101.03]				
	07/10/08 16:16 CST		0	Hail (1.00 in)
	07/10/08 16:21 CST		0	Source: NWS Employee
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MORTON COUNTY --- 13.1 WNW FLASHER [46.52, -101.49]				
	07/10/08 16:25 CST		0	Hail (2.00 in)
	07/10/08 16:36 CST		0	Source: Other Federal Agency
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This report was from the Severe Hail Verification Experiment. No damage was reported.				
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BURLEIGH COUNTY --- 2.8 N BALDWIN [47.07, -100.78]				
	07/10/08 16:44 CST		0	Hail (1.25 in)
	07/10/08 16:55 CST		0	Source: Law Enforcement
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No damage was reported.				
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BURLEIGH COUNTY --- 8.2 SSW REGAN [47.04, -100.58]				
	07/10/08 17:00 CST		10K	Hail (2.25 in)
	07/10/08 17:15 CST		0	Source: Other Federal Agency
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This report was from the Severe Hail Verification Experiment. Damage was reported to car windshield and siding on home.				
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MORTON COUNTY --- 0.7 N FLASHER [46.46, -101.23]				
	07/10/08 17:05 CST		0	Hail (0.75 in)
	07/10/08 17:15 CST		0	Source: Trained Spotter
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MORTON COUNTY --- 16.0 S ST ANTHONY [46.39, -100.92]				
	07/10/08 17:05 CST		0	Hail (0.75 in)
	07/10/08 17:14 CST		0	Source: Trained Spotter
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WELLS COUNTY --- 1.4 E HARVEY [47.77, -99.87]				
	07/10/08 17:07 CST		0	Hail (0.88 in)
	07/10/08 17:15 CST		0	Source: Trained Spotter
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BURLEIGH COUNTY --- 5.0 ESE BALDWIN [47.00, -100.67], 5.5 ESE BALDWIN [47.00, -100.66]				
	07/10/08 17:10 CST		0	Tornado (EF0, L: 0.50 mi , W: 30 yd)
	07/10/08 17:13 CST		0	Source: Public
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The public reported a brief tornado touchdown. There were no reports of damage as the tornado remained in open country and impacted no structures.				
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BURLEIGH COUNTY --- 4.8 NNW DRISCOLL [46.91, -100.18]				
	07/10/08 17:21 CST		0	Hail (1.00 in)
	07/10/08 17:50 CST		0	Source: Trained Spotter
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Hail up to the size of quarters lasted for just under 30 minutes. There were no reports of damage.				
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MORTON COUNTY --- 5.1 SE FALLON [46.47, -101.00]				
	07/10/08 17:26 CST		0	Hail (1.75 in)
	07/10/08 17:38 CST		0	Source: Public
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There were no reports of damage.				

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BURLEIGH COUNTY --- 8.0 E BALDWIN [47.03, -100.60]				
	07/10/08 17:29 CST		0	Hail (1.75 in)
	07/10/08 17:38 CST		0	Source: Law Enforcement
There were no reports of damage.				
MORTON COUNTY --- 4.4 SSW FALLON [46.46, -101.11]				
	07/10/08 17:36 CST		0	Hail (1.75 in)
	07/10/08 17:42 CST		0	Source: Law Enforcement
There were no reports of damage.				
KIDDER COUNTY --- 0.6 W STEELE MUNI ARPT [46.85, -99.99]				
	07/10/08 17:50 CST		10K	Hail (1.75 in)
	07/10/08 17:58 CST		0	Source: Other Federal Agency
This report was from the Severe Hail Verification Experiment. Damage was reported to windows and siding.				
BURLEIGH COUNTY --- 4.2 SE (BIS)BISMARCK MUNI A [46.73, -100.70]				
	07/10/08 17:51 CST		0	Hail (0.88 in)
	07/10/08 17:59 CST		0	Source: Trained Spotter
KIDDER COUNTY --- 10.2 WNW STEELE MUNI ARPT [46.90, -100.18]				
	07/10/08 17:55 CST		0	Hail (1.75 in)
	07/10/08 18:15 CST		0	Source: Other Federal Agency
This report was from the Severe Hail Verification Experiment. No damage was reported.				
MORTON COUNTY --- 2.8 N BREIEN [46.42, -100.94]				
	07/10/08 18:00 CST		0	Hail (2.00 in)
	07/10/08 18:11 CST		0	Source: Trained Spotter
There were no reports of damage.				
MORTON COUNTY --- 4.9 N BREIEN [46.45, -100.94]				
	07/10/08 18:10 CST		0	Hail (1.00 in)
	07/10/08 18:17 CST		0	Source: Trained Spotter
Hail up to the size of quarters lay in drifts on the side of the road. There were no reports of damage.				
BURLEIGH COUNTY --- 0.8 SW DRISCOLL [46.84, -100.14]				
	07/10/08 18:15 CST		0	Hail (1.00 in)
	07/10/08 18:23 CST		0	Source: Trained Spotter
DICKEY COUNTY --- 6.3 ENE FORBES [46.00, -98.67]				
	07/10/08 18:56 CST		0	Hail (1.75 in)
	07/10/08 19:07 CST		0	Source: Utility Company
EMMONS COUNTY --- 2.8 SE HULL [46.00, -100.08]				
	07/10/08 19:15 CST		0	Hail (1.50 in)
	07/10/08 19:30 CST		0	Source: Trained Spotter
Penny to ping pong ball size hail was reported. No damage reports were received.				
LA MOURE COUNTY --- 1.6 ESE MEDBERRY [46.36, -98.59]				
	07/10/08 19:17 CST		0	Hail (0.75 in)
	07/10/08 19:27 CST		0	Source: Trained Spotter
LA MOURE COUNTY --- 2.8 SE LA MOURE ROTT ARPT [46.32, -98.24]				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/10/08 19:28 CST		0	Funnel Cloud
	07/10/08 19:30 CST		0	Source: Public

The public reported a funnel cloud that lasted only a few minutes.

DICKEY COUNTY --- 2.8 N FULLERTON [46.21, -98.43]

	07/10/08 19:30 CST		0	Hail (0.75 in)
	07/10/08 19:38 CST		0	Source: Emergency Manager

In the late afternoon of Thursday, July 10th, Tornado Watch 678 was issued for much of the Bismarck County Warning Area in anticipation of severe thunderstorms with tornado potential developing along a warm frontal boundary that stretched across central North Dakota. An upper level trough was also advecting into the region resulting in cooling temperatures aloft and eroding the afternoon cap. Numerous severe thunderstorm warnings and several tornado warnings were issued. Multiple reports of large hail and two tornado reports were received across south central North Dakota during the late afternoon and early evening hours.

(ND-Z017) MCKENZIE, (ND-Z018) DUNN, (ND-Z019) MERCER, (ND-Z020) OLIVER, (ND-Z031) GOLDEN VALLEY, (ND-Z032) BILLINGS, (ND-Z033) STARK, (ND-Z034) MORTON, (ND-Z040) SLOPE, (ND-Z041) HETTINGER, (ND-Z042) GRANT, (ND-Z043) BOWMAN, (ND-Z044) ADAMS, (ND-Z045) SIOUX

	07/11/08 12:00 CST		0	High Wind (MAX 52 kt)
	07/11/08 14:45 CST		0	

High winds developed across southwest North Dakota during the morning and afternoon hours of Friday, July 11th, behind a cold front that pushed through the area the night before. Sustained winds of around 40 mph and a few gusts up to 60 mph were reported.

(ND-Z003) RENVILLE, (ND-Z004) BOTTINEAU, (ND-Z010) MOUNTRAIL, (ND-Z011) WARD, (ND-Z012) MCHENRY, (ND-Z013) PIERCE, (ND-Z018) DUNN, (ND-Z019) MERCER, (ND-Z020) OLIVER, (ND-Z021) MCLEAN, (ND-Z022) SHERIDAN, (ND-Z023) WELLS, (ND-Z025) FOSTER, (ND-Z031) GOLDEN VALLEY, (ND-Z032) BILLINGS, (ND-Z033) STARK, (ND-Z034) MORTON, (ND-Z035) BURLEIGH, (ND-Z036) KIDDER, (ND-Z037) STUTSMAN, (ND-Z040) SLOPE, (ND-Z041) HETTINGER, (ND-Z042) GRANT, (ND-Z043) BOWMAN, (ND-Z044) ADAMS, (ND-Z045) SIOUX, (ND-Z046) EMMONS, (ND-Z047) LOGAN, (ND-Z048) LA MOURE

	07/12/08 11:14 CST		0	High Wind (MAX 38 kt)
	07/12/08 16:52 CST		0	

A strong low pressure system over Lake Winnipeg brought high winds to most of west and central North Dakota during the afternoon hours of Saturday, July 12th. Sustained winds of around 40 mph were common across the warned area.

EMMONS COUNTY --- 0.5 E STRASBURG [46.13, -100.16]

	07/15/08 18:17 CST		0	Hail (0.88 in)
	07/15/08 18:22 CST		0	Source: Trained Spotter

GRANT COUNTY --- 1.9 W SHIELDS [46.23, -101.17]

	07/15/08 18:35 MST		0	Hail (0.75 in)
	07/15/08 18:40 MST		0	Source: Public

Thunderstorms developed over south central North Dakota on Tuesday, July 15th, in the vicinity of a surface boundary supported by an incoming short wave trough. Two reports of large hail were received during the evening.

DUNN COUNTY --- 0.5 W HALLIDAY [47.35, -102.34]

	07/16/08 00:28 MST		0	Hail (1.00 in)
	07/16/08 00:35 MST		0	Source: COOP Observer

Hail ranging from penny to quarter size fell in the city of Halliday.

BURLEIGH COUNTY --- MENOKEN [46.82, -100.52]

	07/16/08 03:54 CST		0	Hail (0.75 in)
	07/16/08 03:59 CST		0	Source: Law Enforcement

BURLEIGH COUNTY --- MENOKEN [46.82, -100.52]

	07/16/08 04:00 CST		5K	Lightning
	07/16/08 04:00 CST		0	Source: Broadcast Media

A lightning strike caused significant roof damage to a home.

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KIDDER COUNTY --- 6.9 S CRYSTAL SPGS [46.78, -99.48]				
	07/16/08 04:00 CST		4K	Hail (2.75 in)
	07/16/08 04:10 CST		0	Source: COOP Observer
Hail up to the size of baseballs caused damage to a home.				
STUTSMAN COUNTY --- 0.8 NW STREETER [46.66, -99.36]				
	07/16/08 04:30 CST		5K	Thunderstorm Wind (EG 61 kt)
	07/16/08 05:00 CST		0	Source: Trained Spotter
Estimated thunderstorm wind gusts of 70 mph snapped large tree limbs in the city of Streeter.				
STUTSMAN COUNTY --- 0.5 W MONTPELIER [46.70, -98.59]				
	07/16/08 05:15 CST		0	Hail (0.75 in)
	07/16/08 05:20 CST		0	Source: COOP Observer
An embedded short wave trough moving west to east in zonal flow aloft, triggered elevated thunderstorms over west central and south central North Dakota early Wednesday morning, July 16th. Four reports of large hail, one report of destructive lightning, and one report of damaging winds were received.				
STARK COUNTY --- 7.5 NNW TAYLOR [47.00, -102.48]				
	07/18/08 16:28 MST		0	Thunderstorm Wind (EG 53 kt)
	07/18/08 16:38 MST		0	Source: COOP Observer
No damage was reported.				
An isolated severe thunderstorm produced one report of high winds in Stark County.				
WILLIAMS COUNTY --- 6.9 W BONETRAILL [48.41, -104.00]				
	07/19/08 12:45 CST		0	Hail (0.75 in)
	07/19/08 12:51 CST		0	Source: Trained Spotter
WILLIAMS COUNTY --- 6.9 W BONETRAILL [48.41, -104.00]				
	07/19/08 13:11 CST		0	Hail (1.75 in)
	07/19/08 13:15 CST		0	Source: Public
No damage was reported.				
WILLIAMS COUNTY --- 6.9 S BONETRAILL [48.32, -103.86]				
	07/19/08 13:20 CST		0	Hail (1.00 in)
	07/19/08 13:26 CST		0	Source: Public
WILLIAMS COUNTY --- 0.8 NNW WILLISTON [48.16, -103.63]				
	07/19/08 13:40 CST		0	Hail (0.88 in)
	07/19/08 13:48 CST		0	Source: NWS Employee
MCKENZIE COUNTY --- KEENE [47.93, -102.95]				
	07/19/08 13:47 MST		0	Hail (1.00 in)
	07/19/08 13:57 MST		0	Source: Trained Spotter
DUNN COUNTY --- 13.8 N WERNER [47.57, -102.45]				
	07/19/08 14:40 MST		0	Hail (1.75 in)
	07/19/08 14:49 MST		0	Source: Public
No damage was reported.				
DUNN COUNTY --- 17.0 NNE DUNN CENTER [47.58, -102.49], 14.2 N WERNER [47.58, -102.48]				
	07/19/08 14:42 MST		0	Tornado (EF0, L: 0.52 mi , W: 25 yd)
	07/19/08 14:44 MST		0	Source: Amateur Radio

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An Amateur Radio Operator reported a very brief tornado touchdown. The tornado quickly lifted and there was no damage indicated.

DUNN COUNTY --- 0.5 W HALLIDAY [47.35, -102.34]

	07/19/08 15:29 MST	0	0	Hail (0.88 in)
	07/19/08 15:38 MST	0	0	Source: COOP Observer

MERCER COUNTY --- 14.8 NNW GOLDEN VLY [47.48, -102.18]

	07/19/08 15:30 MST	0	0	Thunderstorm Wind (EG 61 kt)
	07/19/08 15:36 MST	0	0	Source: Public

No damage was reported with this high thunderstorm wind.

MERCER COUNTY --- 0.5 E BEULAH [47.27, -101.77]

	07/19/08 15:51 MST	0	0	Hail (0.75 in)
	07/19/08 15:57 MST	0	0	Source: COOP Observer

EMMONS COUNTY --- 0.5 E STRASBURG [46.13, -100.16]

	07/19/08 16:50 CST	0	0	Hail (0.88 in)
	07/19/08 17:10 CST	0	0	Source: Trained Spotter

MORTON COUNTY --- HEBRON [46.90, -102.03]

	07/19/08 17:00 CST	0	0.10M	Hail (1.75 in)
	07/19/08 17:15 CST	0	0	Source: Newspaper

Hail up to the size of ping pong balls fell in the city of Hebron, causing damage to buildings and vehicles.

MCINTOSH COUNTY --- ZEELAND [45.97, -99.83]

	07/19/08 17:37 CST	0	0	Hail (0.88 in)
	07/19/08 17:46 CST	0	0	Source: Trained Spotter

OLIVER COUNTY --- 2.4 E HANNOVER [47.12, -101.38]

	07/19/08 17:43 CST	0	0	Hail (0.88 in)
	07/19/08 17:53 CST	0	0	Source: Law Enforcement

Law enforcement reported nickel size hail along with estimated wind gusts up to 60 mph.

BURLEIGH COUNTY --- 7.0 NNW (BIS)BISMARCK MUNI A [46.87, -100.81], 4.8 NE (BIS)BISMARCK MUNI A [46.83, -100.68]

	07/19/08 18:20 CST	0	0.80M	Hail (2.75 in)
	07/19/08 18:40 CST	0	0	Source: NWS Employee

A severe thunderstorm brought a large swath of very large hail through the north side of Bismarck early Saturday evening. Hail reports ranged from golf ball size to baseball size, along with multiple reports of hail damage to vehicles and homes. The hail swath width is estimated to have ranged from two to four miles, with the largest hail reports contained within a quarter of a mile swath width.

BURLEIGH COUNTY --- 3.4 SW FT LINCOLN [46.78, -100.64]

	07/19/08 18:45 CST	0	10K	Hail (2.75 in)
	07/19/08 18:50 CST	0	0	Source: Public

Mostly quarter to golfball size hail with the largest stone the size of a baseball.

MORTON COUNTY --- 7.7 S ST ANTHONY [46.51, -100.89]

	07/19/08 18:45 CST	0	0	Hail (2.00 in)
	07/19/08 19:00 CST	0	0	Source: Trained Spotter

No damage was reported.

MCINTOSH COUNTY --- 11.1 N ZEELAND [46.13, -99.83]

	07/19/08 20:25 CST	0	0	Hail (1.00 in)
	07/19/08 20:35 CST	0	0	Source: Trained Spotter

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EMMONS COUNTY --- 5.7 SW DANA [46.57, -100.30], 2.9 NW HAGUE [46.06, -100.03]				
	07/19/08 20:30 CST		65K	Hail (2.00 in)
	07/19/08 21:05 CST		90K	Source: Newspaper
A severe thunderstorm left a hail damage swath through central Emmons County Saturday evening. The largest stones were two inches in diameter. Damage was reported to homes and crops.				
MCINTOSH COUNTY --- VENTURA [46.00, -99.55]				
	07/19/08 21:10 CST		0	Hail (1.25 in)
	07/19/08 21:21 CST		50K	Source: Newspaper
In the early afternoon hours of Saturday, July 19th, Severe Thunderstorm Watch 704 was issued for parts of west and central North Dakota. Ongoing severe thunderstorms in northwest North Dakota developed southeastward into south central North Dakota along an instability axis, as a significant upper level low moved into the region. Numerous severe thunderstorm warnings were issued, along with two tornado warnings. Numerous reports of large hail, and one report each of severe winds and a tornado were received during the afternoon and evening. There was significant hail damage on the north side of Bismarck.				
GOLDEN VALLEY COUNTY --- 1.5 SSW BEACH MUNI ARPT [46.91, -104.03]				
	07/20/08 16:21 MST		0	Hail (0.88 in)
	07/20/08 16:25 MST		0	Source: Amateur Radio
STARK COUNTY --- 2.8 S LEFOR [46.64, -102.56]				
	07/20/08 18:16 MST		0	Hail (0.75 in)
	07/20/08 18:21 MST		0	Source: Trained Spotter
HETTINGER COUNTY --- 0.8 SW MOTT [46.37, -102.33]				
	07/20/08 20:27 MST		0	Hail (0.75 in)
	07/20/08 20:32 MST		0	Source: Emergency Manager
Scattered thunderstorms developed over southwest North Dakota during the evening hours of Sunday, July 20th, and resulted in three reports of large hail.				
BOWMAN COUNTY --- 15.0 SSW IVES [46.06, -103.90]				
	07/22/08 01:45 MST		0	Hail (0.75 in)
	07/22/08 01:49 MST		0	Source: Trained Spotter
An isolated severe thunderstorm produced large hail over Bowman County in the early morning hours of Tuesday, July 22nd.				
(ND-Z040) SLOPE				
	07/23/08 06:00 CST		0	Wildfire
	07/29/08 15:00 CST		0	
A wildfire began approximately 16 miles north of Marmarth midday on the 23rd after smoldering for several hours following early morning lightning activity. Low live fuel moisture levels due to an ongoing severe drought, combined with west winds of 15 to 25 mph and relative humidity values near 25 percent, produced explosive fire growth conditions. The wildfire burned through rugged terrain in the North Dakota badlands, producing flames as high as 30 feet tall. Numerous local, state, and federal agencies worked to contain the blaze, which consumed 2,404.8 acres, including 2,059.0 acres of U.S. Forest Service land and 345.8 acres of private pasture. The perimeter of the fire was controlled by the morning of the 24th, but the fire was not 100 percent contained until the 29th.				
STUTSMAN COUNTY --- 0.7 N JAMESTOWN [46.91, -98.70]				
	07/23/08 11:30 CST		5K	Heavy Rain
	07/23/08 12:56 CST		0	Source: Emergency Manager
The rainfall total at the Jamestown Airport from 12:30 PM CDT to 1:56 PM CDT was 1.61 inches. The North Dakota State Hospital reported 2.05 inches of rain. The heavy rain caused minor street flooding throughout the city.				
An elongated area of thunderstorms moved from the southwest to the northeast over the city of Jamestown early in the afternoon on Wednesday, July 23rd. Rainfall totals were near two inches in less than two hours time, resulting in minor street flooding throughout the city.				
BURLEIGH COUNTY --- 5.5 NNE REGAN [47.22, -100.49], 11.0 NNE REGAN [47.30, -100.44]				

Storm Data and Unusual Weather Phenomena - July 2008

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/23/08 17:15 CST		0	Hail (1.75 in)
	07/23/08 17:21 CST		0	Source: Other Federal Agency
<p>Reports of large hail were received along this path. Reports were from the Severe Hazards Analysis and Verification Experiment. No damage was reported. The largest stones were 1.75 inch diameter seven miles north of Regan and five and a half miles north northeast of Regan.</p> <p>Isolated thunderstorms developed over south central North Dakota in advance of an approaching trough of low pressure. A severe storm over northern Burleigh County produced large hail as it moved northeast.</p>				
<hr/>				
BOWMAN COUNTY --- BOWMAN [46.18, -103.40]				
	07/26/08 23:24 MST		0	Thunderstorm Wind (MG 56 kt)
	07/26/08 23:29 MST		0	Source: ASOS
<hr/>				
ADAMS COUNTY --- HETTINGER [46.00, -102.63]				
	07/27/08 00:10 MST		0	Thunderstorm Wind (MG 61 kt)
	07/27/08 00:17 MST		0	Source: ASOS
<p>There were no damage reports.</p>				
<hr/>				
HETTINGER COUNTY --- 0.5 W REGENT [46.42, -102.56]				
	07/27/08 00:34 MST		0	Thunderstorm Wind (EG 52 kt)
	07/27/08 00:40 MST		0	Source: Law Enforcement
<hr/>				
HETTINGER COUNTY --- 1.2 NW NEW ENGLAND [46.54, -102.87]				
	07/27/08 00:40 MST		0	Thunderstorm Wind (EG 56 kt)
	07/27/08 00:46 MST		0	Source: COOP Observer
<hr/>				
ADAMS COUNTY --- HETTINGER [46.00, -102.63]				
	07/27/08 00:41 MST		0	Thunderstorm Wind (MG 60 kt)
	07/27/08 00:46 MST		0	Source: ASOS
<hr/>				
GRANT COUNTY --- 14.6 SSE NEW LEIPZIG [46.17, -101.85]				
	07/27/08 01:00 MST		8K	Thunderstorm Wind (EG 65 kt)
	07/27/08 01:30 MST		0	Source: COOP Observer
<p>A two foot in diameter tree was blown down and there was roof damage.</p>				
<hr/>				
HETTINGER COUNTY --- 0.5 W REGENT [46.42, -102.56]				
	07/27/08 01:30 MST		0.10M	Thunderstorm Wind (EG 65 kt)
	07/27/08 01:45 MST		0	Source: Fire Department/Rescue
<p>Power lines were reported down and three grain bins were destroyed.</p>				
<hr/>				
EMMONS COUNTY --- 1.5 W LINTON [46.27, -100.26], 4.0 E LINTON [46.27, -100.15]				
	07/27/08 02:20 CST		0.50M	Hail (3.00 in)
	07/27/08 02:45 CST		25K	Source: Newspaper
<p>Very significant damage occurred in the city of Linton. Two automobile dealerships reported \$110,000 damage total. Nearly every vehicle parked outside had some type of damage, either dents or cracked windows. Damage to structures, mainly roofs, eave troughs, and vents, was widespread throughout the city. Outside of town damage was reported to farm houses, outbuildings, and horse trailers. The hail swath was about five and a half miles long and a mile wide, right through Linton. Crop damage was minimal in comparison as the storm hailed itself out about 4 miles east of town. Little crop land was affected.</p>				
<hr/>				
EMMONS COUNTY --- HAGUE [46.03, -99.98]				
	07/27/08 03:35 CST		0	Thunderstorm Wind (EG 50 kt)
	07/27/08 03:40 CST		0	Source: Newspaper
<hr/>				
MCINTOSH COUNTY --- 9.0 W ASHLEY [46.03, -99.56]				
	07/27/08 04:00 CST		0	Thunderstorm Wind (EG 51 kt)
	07/27/08 04:10 CST		0	Source: Public

Storm Data and Unusual Weather Phenomena - July 2008

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Report at Venturia.				
<hr/>				
LOGAN COUNTY --- FREDONIA [46.33, -99.10]				
	07/27/08 04:45 CST		0	Thunderstorm Wind (EG 52 kt)
	07/27/08 04:50 CST		0	Source: Public
<hr/>				
DICKEY COUNTY --- FULLERTON [46.17, -98.42]				
	07/27/08 05:25 CST		0	Hail (0.88 in)
	07/27/08 05:27 CST		0	Source: Public
<hr/>				
<p>In the late evening hours of Saturday, July 26th, Severe Thunderstorm Watch 756 was issued for southwest and south central North Dakota as a band of intense storms intensified over eastern Montana, in response to a low amplitude short wave trough cresting a broad upper level ridge. These storms moved into southern North Dakota. Most of the severe reports were of high wind. Other storms developed and quickly intensified over Emmons County, ahead of the main line of storms. Significant hail damage was reported at Linton, Emmons County. These storms weakened somewhat, but remained severe as they moved east.</p>				
<hr/>				
MCKENZIE COUNTY --- ARNEGARD [47.82, -103.43]				
	07/28/08 04:57 MST		15K	Thunderstorm Wind (EG 56 kt)
	07/28/08 05:04 MST		0	Source: Newspaper
<hr/>				
<p>Damage to trees and a few structures were reported in Arnegard, McKenzie County from severe thunderstorm wind gusts. Several trees were blown down, causing some minor structural damage.</p>				
<hr/>				
WILLIAMS COUNTY --- 0.8 NNW WILLISTON [48.16, -103.63]				
	07/28/08 05:55 CST		0	Thunderstorm Wind (MG 57 kt)
	07/28/08 06:00 CST		0	Source: ASOS
<hr/>				
DUNN COUNTY --- 0.5 W HALLIDAY [47.35, -102.34]				
	07/28/08 06:27 MST		2K	Thunderstorm Wind (EG 56 kt)
	07/28/08 06:34 MST		0	Source: COOP Observer
<hr/>				
<p>High winds knocked down a six inch in diameter tree.</p>				
<hr/>				
DUNN COUNTY --- 0.5 W HALLIDAY [47.35, -102.34]				
	07/28/08 06:45 MST		3K	Thunderstorm Wind (EG 61 kt)
	07/28/08 06:50 MST		0	Source: COOP Observer
<hr/>				
<p>High winds blew down a sixty foot tall tree on the north side of Halliday.</p>				
<hr/>				
DUNN COUNTY --- DUNN CENTER [47.35, -102.63]				
	07/28/08 07:18 MST		0	Thunderstorm Wind (EG 52 kt)
	07/28/08 07:23 MST		0	Source: COOP Observer
<hr/>				
DUNN COUNTY --- 0.5 W HALLIDAY [47.35, -102.34]				
	07/28/08 07:23 MST		0	Hail (0.75 in)
	07/28/08 07:29 MST		0	Source: COOP Observer
<hr/>				
MOUNTRAIL COUNTY --- 0.8 NE PLAZA [48.04, -101.96]				
	07/28/08 07:42 CST		0	Thunderstorm Wind (EG 51 kt)
	07/28/08 07:47 CST		0	Source: Public
<hr/>				
DUNN COUNTY --- 1.0 NW HALLIDAY [47.36, -102.35], 4.0 SE HALLIDAY [47.31, -102.27]				
	07/28/08 09:30 MST		0	Hail (1.75 in)
	07/28/08 09:52 MST		0	Source: COOP Observer

A large hail swath (up to golf ball sized) was about four miles long and a mile wide, and moved through the city of Halliday. No damage reports were received from the hail however. The storm hailed itself out about 4 miles southeast of town.

Severe Thunderstorm Watch 766 was issued for much of western and central North Dakota around daybreak Monday morning, July 28th, in anticipation of an evolving Mesoscale Convective System (MCS) approaching western North Dakota. This complex of severe thunderstorms eventually moved into and across northwest and west central North Dakota, prompting several severe thunderstorm

Storm Data and Unusual Weather Phenomena - July 2008

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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warnings and one tornado warning. Several reports of large hail and severe thunderstorm wind gusts were received during the mid to late morning hours.

MERCER COUNTY --- 10.0 N ZAP [47.42, -101.92]

	07/28/08 17:30 MST	0		Hail (1.00 in)
	07/28/08 17:32 MST	0		Source: Trained Spotter

MERCER COUNTY --- STANTON [47.32, -101.38]

	07/28/08 18:05 MST	0		Hail (2.00 in)
	07/28/08 18:17 MST	0		Source: Trained Spotter

No reports of damage were received.

MERCER COUNTY --- STANTON [47.32, -101.38]

	07/28/08 18:33 MST	0		Hail (1.75 in)
	07/28/08 18:40 MST	0		Source: Trained Spotter

Hail up to the size of golf balls and fifty mph winds were reported in Stanton. This was the second wave of severe weather to impact the city of Stanton within one hour Monday evening.

MCLEAN COUNTY --- 1.0 NE EMMET [47.66, -101.63]

	07/28/08 18:45 CST	0		Hail (1.75 in)
	07/28/08 18:50 CST	0		Source: Other Federal Agency

No reports of damage were received.

MCLEAN COUNTY --- 5.5 S RIVERDALE [47.42, -101.38]

	07/28/08 19:15 CST	0		Hail (0.88 in)
	07/28/08 19:25 CST	0		Source: Trained Spotter

BURLEIGH COUNTY --- 8.0 SW WILTON [47.09, -100.92]

	07/28/08 19:58 CST	0		Funnel Cloud
	07/28/08 19:58 CST	0		Source: Fire Department/Rescue

MCLEAN COUNTY --- 0.7 N COLEHARBOR [47.56, -101.22]

	07/28/08 19:58 CST	0		Hail (1.75 in)
	07/28/08 20:05 CST	0		Source: Other Federal Agency

No reports of damage were received.

OLIVER COUNTY --- 3.5 S SANGER [47.13, -101.00]

	07/28/08 19:58 CST	0		Funnel Cloud
	07/28/08 19:58 CST	0		Source: Fire Department/Rescue

A funnel cloud was reported west of the Missouri River by Fire Department personnel.

BURLEIGH COUNTY --- 2.0 NE BALDWIN [47.05, -100.74], 4.0 ESE BALDWIN [47.01, -100.69]

	07/28/08 20:25 CST	0		Tornado (EF0, L: 3.72 mi , W: 40 yd)
	07/28/08 20:31 CST	0		Source: Trained Spotter

A tornado briefly touched down in open prairie northeast of Baldwin, and tracked three miles southeast before dissipating. No damage reports were received.

MCINTOSH COUNTY --- 1.2 SE WISHEK MUNI ARPT [46.22, -99.51]

	07/28/08 20:25 CST	0		Hail (1.75 in)
	07/28/08 20:31 CST	0		Source: Law Enforcement

No reports of damage were received.

MCINTOSH COUNTY --- 7.3 NE DANZIG [46.21, -99.37]

Storm Data and Unusual Weather Phenomena - July 2008

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/28/08 21:00 CST		0	Hail (1.75 in)
	07/28/08 21:06 CST		0	Source: Public

No reports of damage were received.

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

	07/28/08 21:05 CST		0	Hail (1.75 in)
	07/28/08 21:20 CST		0	Source: Law Enforcement

Hail up to golf ball size fell in Ashley for around fifteen minutes.

MCINTOSH COUNTY --- 7.5 NE DANZIG [46.20, -99.35]

	07/28/08 21:10 CST		0	Hail (1.75 in)
	07/28/08 21:18 CST		0	Source: Law Enforcement

No reports of damage were received.

MCINTOSH COUNTY --- 15.8 E ASHLEY MUNI ARPT [46.03, -99.02]

	07/28/08 21:45 CST		5K	Thunderstorm Wind (EG 65 kt)
	07/28/08 21:58 CST		0	Source: Public

Several reports of tree damage and minor structural damage due to severe thunderstorm wind gusts were reported.

In the early evening hours of Monday, July 28th, Severe Thunderstorm Watch 768 was issued for intensifying thunderstorms across portions of south central North Dakota. An incoming upper level trough and its associated surface cold front continued the development of additional severe thunderstorms for several hours Monday evening. Numerous severe thunderstorm warnings and several tornado warnings were issued. Numerous reports of severe weather, including funnel clouds and a tornado, were received.

MCKENZIE COUNTY --- 2.3 NE RAWSON [47.84, -103.51]

	07/30/08 06:47 MST		0	Hail (0.88 in)
	07/30/08 06:52 MST		0	Source: Trained Spotter

An isolated severe thunderstorm prompted two warnings and produced one report of large hail in the morning hours of Wednesday, July 30th.

BOWMAN COUNTY --- 1.5 NNE BOWMAN [46.20, -103.39]

	07/30/08 14:13 MST		0	Hail (0.75 in)
	07/30/08 14:18 MST		0	Source: Other Federal Agency

STARK COUNTY --- 1.2 NW LEFOR [46.69, -102.57]

	07/30/08 14:20 MST		0	Hail (0.88 in)
	07/30/08 14:26 MST		0	Source: Emergency Manager

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

	07/30/08 14:55 MST		0	Hail (0.88 in)
	07/30/08 15:02 MST		0	Source: Trained Spotter

STARK COUNTY --- 0.5 W TAYLOR [46.90, -102.43]

	07/30/08 15:00 MST		0	Thunderstorm Wind (EG 61 kt)
	07/30/08 15:08 MST		0	Source: Trained Spotter

Estimated seventy mph winds along with penny size hail was reported.

STARK COUNTY --- 2.0 SW TAYLOR [46.88, -102.45]

	07/30/08 15:00 MST		0	Hail (1.25 in)
	07/30/08 15:15 MST		0	Source: Other Federal Agency

This report was from the Severe Hail Verification Experiment.

ADAMS COUNTY --- 7.0 N REEDER [46.22, -102.95]

Storm Data and Unusual Weather Phenomena - July 2008

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/30/08 15:13 MST		0	Hail (1.75 in)
	07/30/08 15:22 MST		0	Source: Other Federal Agency

This report was from the Severe Hail Verification Experiment.

STARK COUNTY --- 3.0 NW RICHARDTON [46.91, -102.36]

	07/30/08 15:14 MST		0	Hail (1.50 in)
	07/30/08 15:20 MST		0	Source: Other Federal Agency

This report was from the Severe Hail Verification Experiment.

ADAMS COUNTY --- 4.8 ENE REEDER [46.15, -102.86]

	07/30/08 15:21 MST		0	Hail (1.75 in)
	07/30/08 15:41 MST		0	Source: Trained Spotter

Hail up to golf ball size lasted for 20 minutes.

MERCER COUNTY --- 18.7 SW REPUBLIC [47.00, -102.15]

	07/30/08 15:23 MST		0	Hail (2.50 in)
	07/30/08 15:32 MST		0	Source: Trained Spotter

No reports of damage were received.

ADAMS COUNTY --- 7.0 NNE HAYNES [46.06, -102.41]

	07/30/08 15:30 MST		0	Hail (2.00 in)
	07/30/08 15:43 MST		0	Source: Other Federal Agency

This report was from the Severe Hail Verification Experiment.

MERCER COUNTY --- 3.1 SSE BEULAH ARPT [47.21, -101.77]

	07/30/08 16:11 MST		0	Hail (0.88 in)
	07/30/08 16:19 MST		0	Source: Law Enforcement

MORTON COUNTY --- 0.5 W HEBRON [46.90, -102.04]

	07/30/08 16:25 CST		0	Hail (2.50 in)
	07/30/08 16:35 CST		0	Source: Newspaper

No reports of damage were received.

MERCER COUNTY --- HAZEN [47.30, -101.63], 2.0 NNW HAZEN [47.33, -101.65]

	07/30/08 16:30 MST		30K	Hail (1.75 in)
	07/30/08 16:41 MST		0	Source: Trained Spotter

A swath of quarter to golf ball size hail fell south to north across the city of Hazen. Some property damage was reported, but there were no specifics.

MERCER COUNTY --- 3.6 NNW KREM [47.43, -101.62]

	07/30/08 16:40 MST		0	Hail (0.88 in)
	07/30/08 16:40 MST		0	Source: Trained Spotter

In addition to the hail, 60 mph thunderstorm wind gusts were reported.

MERCER COUNTY --- 6.7 WSW PICK CITY [47.50, -101.61]

	07/30/08 16:50 MST		0	Thunderstorm Wind (EG 52 kt)
	07/30/08 16:57 MST		0	Source: Trained Spotter

MCLEAN COUNTY --- 1.4 N BLACKWATER [47.65, -101.78]

	07/30/08 17:59 CST		0	Hail (1.00 in)
	07/30/08 18:05 CST		0	Source: Law Enforcement

MCLEAN COUNTY --- 2.7 WNW COLEHARBOR [47.57, -101.27]

Storm Data and Unusual Weather Phenomena - July 2008

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/30/08 18:15 CST		0	Thunderstorm Wind (EG 52 kt)
	07/30/08 18:21 CST		0	Source: Trained Spotter
<hr/>				
MCLEAN COUNTY --- 4.2 S BENEDICT [47.77, -101.08]				
	07/30/08 18:41 CST		0	Thunderstorm Wind (EG 56 kt)
	07/30/08 18:47 CST		0	Source: Broadcast Media
<hr/>				
WARD COUNTY --- 5.3 ESE HESNAULT [48.03, -101.44]				
	07/30/08 18:48 CST		0	Hail (1.00 in)
	07/30/08 18:54 CST		0	Source: Broadcast Media
<hr/>				
MCLEAN COUNTY --- ROSEGLEN [47.75, -101.83]				
	07/30/08 20:15 CST		0	Hail (1.50 in)
	07/30/08 20:20 CST		0	Source: Mesonet
<hr/>				
Ping pong size hail was accompanied by heavy rain. Total rainfall at the time of the report was 2.20 inches. There was no flooding.				
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MCLEAN COUNTY --- 1.4 W EMMET [47.65, -101.68]				
	07/30/08 20:42 CST		35K	Hail (2.50 in)
	07/30/08 20:52 CST		0	Source: Broadcast Media
<hr/>				
Very large hail up to tennis ball size damaged skylights on a home and caused other damage.				
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MCLEAN COUNTY --- GARRISON [47.65, -101.42]				
	07/30/08 20:45 CST		0	Hail (1.00 in)
	07/30/08 20:52 CST		0	Source: COOP Observer
<hr/>				
MCLEAN COUNTY --- GARRISON [47.65, -101.42]				
	07/30/08 21:09 CST		0	Hail (1.25 in)
	07/30/08 21:15 CST		0	Source: Public
<hr/>				
MERCER COUNTY --- STANTON [47.32, -101.38]				
	07/30/08 21:30 MST		8K	Thunderstorm Wind (EG 61 kt)
	07/30/08 21:40 MST		0	Source: Trained Spotter
<hr/>				
Strong thunderstorm winds blew down 12 inch diameter trees.				
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MCLEAN COUNTY --- GARRISON [47.65, -101.42]				
	07/30/08 21:39 CST		0	Hail (1.00 in)
	07/30/08 21:45 CST		0	Source: Broadcast Media
<hr/>				
MERCER COUNTY --- STANTON [47.32, -101.38]				
	07/30/08 21:40 MST		1K	Thunderstorm Wind (EG 56 kt)
	07/30/08 21:49 MST		0	Source: Trained Spotter
<hr/>				
A six inch in diameter tree was blown down in Stanton.				
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MCLEAN COUNTY --- 0.2 S GARRISON [47.65, -101.42], 0.7 N GARRISON [47.66, -101.42], 1.0 NE GARRISON [47.66, -101.41], 0.6 ESE GARRISON [47.65, -101.41]				
	07/30/08 21:57 CST		25K	Flash Flood (due to Heavy Rain)
	07/30/08 23:57 CST		0	Source: Public
<hr/>				
Flash flooding was reported in the city of Garrison with water flooding city streets and yards, and flowing into some basements. This was due to excessive rainfall of 3.43 inches total, with 2.62 inches of that falling within one hour.				
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MORTON COUNTY --- 5.1 SW HARMON [46.93, -101.06]				
	07/30/08 23:21 CST		0	Thunderstorm Wind (EG 65 kt)
	07/30/08 23:30 CST		0	Source: Amateur Radio
<hr/>				
MORTON COUNTY --- 2.5 NW MANDAN [46.86, -100.93]				

Storm Data and Unusual Weather Phenomena - July 2008

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/30/08 23:28 CST		0	Thunderstorm Wind (EG 61 kt)
	07/30/08 23:34 CST		0	Source: NWS Employee

BURLEIGH COUNTY --- 5.8 SW BALDWIN [46.98, -100.87]

07/30/08 23:30 CST	10K	Thunderstorm Wind (EG 65 kt)
07/30/08 23:36 CST	0	Source: Mesonet

Damage was reported to trees and there was also minor structural damage.

MORTON COUNTY --- 1.5 SSE MANDAN MUNI ARPT [46.75, -100.89]

07/30/08 23:36 CST	0	Hail (2.50 in)
07/30/08 23:40 CST	0	Source: Broadcast Media

No reports of damage were received.

BURLEIGH COUNTY --- 7.0 NNW (BIS)BISMARCK MUNI A [46.87, -100.81], 3.0 SSE (BIS)BISMARCK MUNI A [46.74, -100.73]

07/30/08 23:50 CST	40K	Thunderstorm Wind (EG 70 kt)
07/31/08 00:13 CST	0	Source: Newspaper

Severe thunderstorm wind gusts of 60 to 80 mph swept across the Bismarck and Mandan areas as a large bow echo pushed southeast across south central North Dakota. Winds resulted in widespread tree damage across the cities, as well as loss of power to roughly 7,000 customers due to trees falling onto power lines.

GRANT COUNTY --- 10.2 SW SHIELDS [46.14, -101.30]

07/30/08 23:50 MST	0	Hail (0.88 in)
07/30/08 23:59 MST	0	Source: COOP Observer

DICKEY COUNTY --- ELLENDALE [46.00, -98.52]

07/31/08 02:00 CST	85K	Thunderstorm Wind (EG 70 kt)
07/31/08 02:12 CST	50K	Source: Emergency Manager

Severe thunderstorm wind gusts overturned several grain bins and destroyed them. Tree limbs were broken and crops were damaged.

MCINTOSH COUNTY --- 7.5 NE DANZIG [46.20, -99.35]

07/31/08 02:00 CST	1K	Thunderstorm Wind (EG 52 kt)
07/31/08 02:12 CST	0	Source: Mesonet

Thunderstorm wind gusts broke three inch in diameter tree branches.

DICKEY COUNTY --- ELLENDALE [46.00, -98.52]

07/31/08 03:04 CST	10K	Thunderstorm Wind (EG 52 kt)
07/31/08 03:15 CST	0	Source: Mesonet

A second wave of severe thunderstorm wind gusts caused damage to trees in the city of Ellendale.

In the mid afternoon hours of Wednesday, July 30th, Severe Thunderstorm Watch 775 was issued for much of western and central North Dakota due to intensification of thunderstorms developing along a pre-frontal trough situated over western North Dakota. Later Wednesday evening Severe Thunderstorm Watch 777 was issued to expand the watch area east and to extend portions of WW 775 into the early morning hours of Thursday, July 31st.

The end result was a large severe weather outbreak experienced across much of southwest and south central North Dakota, lasting from the late afternoon hours of the 30th, into the early morning hours of the 31st. Multiple severe thunderstorm warnings, several tornado warnings, and one flash flood warning were issued. Numerous reports of large hail and severe thunderstorm wind gusts were received throughout this event, along with one flash flooding event.