

Storm Data and Unusual Weather Phenomena - August 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
NORTH DAKOTA, Central and West				
WILLIAMS COUNTY --- 7.1 NNW TRENTON [48.17, -103.89]				
	08/01/10 15:00 CST		0	Hail (1.00 in)
	08/01/10 15:15 CST		0	Source: SHAVE Project
MCKENZIE COUNTY --- 11.1 N WATFORD CITY [47.96, -103.28]				
	08/01/10 15:02 MST		0	Thunderstorm Wind (EG 52 kt)
	08/01/10 15:09 MST		0	Source: Trained Spotter
Estimated winds of 60 mph were reported.				
WILLIAMS COUNTY --- 11.2 N TRENTON [48.23, -103.89]				
	08/01/10 15:02 CST		15K	Hail (1.00 in)
	08/01/10 15:13 CST		0	Source: Trained Spotter
The large hail resulted in broken windows on a home.				
MCKENZIE COUNTY --- 0.5 E KEENE [47.93, -102.94]				
	08/01/10 15:15 MST		0	Hail (1.00 in)
	08/01/10 15:21 MST		0	Source: Trained Spotter
WILLIAMS COUNTY --- 0.5 W WILLISTON [48.15, -103.63]				
	08/01/10 15:20 CST		0	Hail (1.00 in)
	08/01/10 15:28 CST		0	Source: Trained Spotter
WILLIAMS COUNTY --- 4.9 SE WILLISTON [48.10, -103.54]				
	08/01/10 15:30 CST		35K	Hail (1.75 in)
	08/01/10 15:32 CST		0	Source: SHAVE Project
Damage was sustained to vehicles and siding on a home.				
WILLIAMS COUNTY --- 7.5 SE WILLISTON [48.08, -103.50]				
	08/01/10 15:30 CST		35K	Hail (1.50 in)
	08/01/10 15:45 CST		0	Source: SHAVE Project
WILLIAMS COUNTY --- 7.9 SE WILLISTON [48.06, -103.52]				
	08/01/10 15:30 CST		40K	Hail (1.75 in)
	08/01/10 15:40 CST		0	Source: SHAVE Project
Windows were broken on the north side of a home, and car windshields were broken out.				
WILLIAMS COUNTY --- 9.1 ESE WILLISTON [48.09, -103.45]				
	08/01/10 15:30 CST		12K	Hail (1.75 in)
	08/01/10 15:40 CST		0	Source: SHAVE Project
A camper and truck were dented.				
MCKENZIE COUNTY --- 1.4 N MANDAREE [47.74, -102.68]				
	08/01/10 15:43 MST		0	Funnel Cloud
	08/01/10 15:48 MST		0	Source: Trained Spotter
Several funnel clouds appeared underneath a rotating wall cloud. The funnel clouds did not reach the surface.				
ROLETTE COUNTY --- 0.8 SSW DUNSEITH [48.81, -100.06]				
	08/01/10 18:15 CST		0	Hail (0.88 in)
	08/01/10 18:22 CST		0	Source: Law Enforcement
MERCER COUNTY --- 16.1 S BEULAH [47.04, -101.83], 16.9 S BEULAH [47.03, -101.80]				

Storm Data and Unusual Weather Phenomena - August 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	08/01/10 19:16 MST		50K	Tornado (EF0, L: 1.65 mi , W: 40 yd)
	08/01/10 19:21 MST		0	Source: Newspaper

A tornado touched down in Mercer County and impacted a farmstead. A large cottonwood tree was uprooted and two grain bins were destroyed. The damage corresponded to a middle EF0 on the Enhanced Fujita Tornado Scale. From that it was determined that wind speeds were around 75 mph.

OLIVER COUNTY --- 13.0 WSW HANNOVER [47.04, -101.68]

08/01/10 19:28 CST	0	Hail (1.75 in)
08/01/10 19:38 CST	0	Source: Trained Spotter

MORTON COUNTY --- 3.6 NW NEW SALEM [46.89, -101.47]

08/01/10 19:45 CST	0	Hail (1.00 in)
08/01/10 19:53 CST	0	Source: Trained Spotter

MORTON COUNTY --- 0.5 E NEW SALEM [46.85, -101.41]

08/01/10 19:46 CST	0	Thunderstorm Wind (EG 52 kt)
08/01/10 19:53 CST	0	Source: Trained Spotter

Estimated winds of 60 mph were reported.

MORTON COUNTY --- 4.8 NW NEW SALEM [46.90, -101.49]

08/01/10 19:48 CST	0	Thunderstorm Wind (EG 52 kt)
08/01/10 19:57 CST	0	Source: Trained Spotter

Estimated winds of 60 mph were reported.

MORTON COUNTY --- 0.5 E NEW SALEM [46.85, -101.41]

08/01/10 20:00 CST	0.15M	Thunderstorm Wind (EG 70 kt)
08/01/10 20:10 CST	0.25M	Source: Law Enforcement

Large hail accompanied the strong thunderstorm winds. The wind driven hail and strong winds resulted in widespread damage in the town of New Salem. Several trees were uprooted, and hail damage was sustained to homes and vehicles.

MORTON COUNTY --- NEW SALEM [46.85, -101.42]

08/01/10 20:00 CST	0	Hail (1.50 in)
08/01/10 20:10 CST	0	Source: Law Enforcement

MORTON COUNTY --- 2.8 S JUDSON [46.79, -101.26]

08/01/10 20:10 CST	0	Funnel Cloud
08/01/10 20:14 CST	0	Source: Trained Spotter

A brief funnel cloud was reported from a trained spotter traveling on Interstate 94 west of Mandan.

MORTON COUNTY --- 3.6 NE SWEET BRIAR [46.87, -101.13]

08/01/10 20:13 CST	0	Thunderstorm Wind (EG 52 kt)
08/01/10 20:21 CST	0	Source: Law Enforcement

Estimated winds of 60 mph were reported.

ROLETTE COUNTY --- 2.8 N ROLETTE [48.71, -99.83], 6.0 ENE ROLETTE [48.70, -99.70]

08/01/10 20:45 CST	0	Tornado (EF0, L: 5.79 mi , W: 30 yd)
08/01/10 21:01 CST	0	Source: Law Enforcement

This tornado occurred in the open country. No structures were impacted, so no damage was done. The Rolla Fire Department was also reporting this tornado to the National Weather Service in real time.

In the mid afternoon hours of Sunday, August 1st, Severe Thunderstorm Watch number 559 was issued for much of western and north central North Dakota. Later, during early Sunday evening, the watch was expanded to include south central North Dakota. A remnant outflow boundary across northeast Montana and northwest North Dakota was the focus for isolated supercells as they tracked east-southeast from northwest North Dakota in the afternoon, into south central North Dakota in the evening. Additional thunderstorm development took place across north central North Dakota, where mid level short wave impulses provided the necessary lift along a surface trough.

Storm Data and Unusual Weather Phenomena - August 2010

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

Several severe thunderstorm and tornado warnings were issued. Multiple reports of large hail, several reports of severe thunderstorm winds, and two confirmed tornadoes occurred during this episode.

MOUNTRAIL COUNTY --- 5.9 SW PARSHALL ARPT [47.87, -102.22]

08/02/10 11:20 CST	0	Hail (0.88 in)
08/02/10 11:28 CST	0	Source: Trained Spotter

MCLEAN COUNTY --- 8.9 NNW GARRISON [47.77, -101.49]

08/02/10 12:20 CST	0	Thunderstorm Wind (EG 52 kt)
08/02/10 12:26 CST	0	Source: Trained Spotter

Pea size hail and heavy rain accompanied the strong thunderstorm winds.

MCLEAN COUNTY --- 1.1 SSE MAX [47.81, -101.29]

08/02/10 12:25 CST	4K	Lightning
08/02/10 12:25 CST	0	Source: Newspaper

Lightning struck a car resulting in the air bags being deployed and other damage. A person in the car suffered minor injuries. Time and placement of this event is based on a newspaper article and archived radar data. It is estimated.

MORTON COUNTY --- 5.2 NNE SWEET BRIAR [46.90, -101.14], 5.2 NNE SWEET BRIAR [46.90, -101.14]

08/02/10 13:36 CST	0	Tornado (EF0, L: 0.17 mi , W: 20 yd)
08/02/10 13:37 CST	0	Source: Public

The public reported that a brief tornado touched down in the open country near Crown Butte Dam. No structures were impacted so no damage was done.

MORTON COUNTY --- 1.4 W MANDAN [46.83, -100.93]

08/02/10 14:03 CST	0	Funnel Cloud
08/02/10 14:25 CST	0	Source: Official NWS Observations

Funnel clouds repeatedly formed and dissipated underneath a rotating wall cloud west of Mandan. None of the funnels touched the ground.

MORTON COUNTY --- 2.5 NW MANDAN [46.86, -100.93]

08/02/10 14:14 CST	8K	Thunderstorm Wind (MG 57 kt)
08/02/10 14:25 CST	0	Source: NWS Employee

The strong thunderstorm winds combined with large hail resulted in damage to siding on a home.

MORTON COUNTY --- 0.5 W MANDAN [46.83, -100.91]

08/02/10 14:16 CST	0	Thunderstorm Wind (EG 61 kt)
08/02/10 14:24 CST	0	Source: NWS Employee

Estimated winds of 70 mph were reported on the northwest side of Mandan.

MORTON COUNTY --- 1.2 NNW MANDAN [46.85, -100.91]

08/02/10 14:24 CST	0	Hail (1.00 in)
08/02/10 14:30 CST	0	Source: NWS Employee

BURLEIGH COUNTY --- 2.8 WNW BISMARCK [46.82, -100.82]

08/02/10 14:25 CST	0	Thunderstorm Wind (MG 61 kt)
08/02/10 14:34 CST	0	Source: Trained Spotter

MORTON COUNTY --- 0.5 S MANDAN [46.82, -100.90]

08/02/10 14:25 CST	0	Hail (1.00 in)
08/02/10 14:33 CST	0	Source: Amateur Radio

MORTON COUNTY --- 1.0 SSE MANDAN [46.82, -100.89]

08/02/10 14:30 CST	0	Hail (1.00 in)
08/02/10 14:38 CST	0	Source: Public

Storm Data and Unusual Weather Phenomena - August 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
BURLEIGH COUNTY --- 3.2 NNE BISMARCK [46.84, -100.75]				
	08/02/10 14:35 CST		0	Hail (1.00 in)
	08/02/10 14:43 CST		0	Source: Public
MORTON COUNTY --- 1.8 E MANDAN [46.83, -100.86]				
	08/02/10 14:36 CST		0	Hail (1.75 in)
	08/02/10 14:43 CST		0	Source: NWS Employee
BURLEIGH COUNTY --- 2.4 N BISMARCK [46.84, -100.77]				
	08/02/10 14:40 CST		0	Thunderstorm Wind (EG 56 kt)
	08/02/10 14:48 CST		0	Source: Amateur Radio
Estimated winds of 65 mph were reported.				
The combination of a short wave trough over central Montana, and a weak instability axis stretched from northwest to southeast across central North Dakota, resulted in scattered severe thunderstorms over portions of central North Dakota during the afternoon hours of Monday, August 2nd.				
Two severe thunderstorm warnings and two tornado warnings were issued. Numerous reports of large hail, several reports of severe thunderstorm winds, several reported funnel clouds, and one confirmed tornado occurred during this episode.				
MCLEAN COUNTY --- WASHBURN [47.28, -101.02]				
	08/07/10 00:30 CST		4K	Lightning
	08/07/10 00:30 CST		0	Source: Newspaper
Electrical appliances in a home were damaged due to a lightning strike on a tree near the home. Also damaged was a vehicle which had its side window blown out.				
An early morning lightning strike in the town of Washburn, McLean County resulted in damage to electrical appliances in a home, along with damage to a vehicle outside of the home.				
DUNN COUNTY --- 4.2 N DUNN CENTER [47.41, -102.62]				
	08/09/10 14:40 MST		0	Hail (1.50 in)
	08/09/10 14:47 MST		0	Source: Trained Spotter
SLOPE COUNTY --- 9.8 SSE AMIDON [46.35, -103.24]				
	08/09/10 15:15 MST		0	Hail (1.00 in)
	08/09/10 15:22 MST		0	Source: Trained Spotter
STARK COUNTY --- 12.4 S BELFIELD [46.70, -103.19]				
	08/09/10 15:40 MST		0	Hail (1.00 in)
	08/09/10 15:48 MST		0	Source: Trained Spotter
SLOPE COUNTY --- 8.8 ENE AMIDON [46.53, -103.15]				
	08/09/10 16:45 MST		0	Hail (0.88 in)
	08/09/10 16:51 MST		0	Source: Public
SLOPE COUNTY --- 8.8 ENE AMIDON [46.53, -103.15]				
	08/09/10 16:45 MST		0	Thunderstorm Wind (EG 52 kt)
	08/09/10 16:52 MST		0	Source: Public
An estimated wind speed of 60 mph was reported.				
MOUNTRAIL COUNTY --- 8.9 SE NEW TOWN [47.90, -102.33]				
	08/09/10 17:00 CST		0	Hail (1.00 in)
	08/09/10 17:10 CST		0	Source: Trained Spotter
MOUNTRAIL COUNTY --- 8.9 SE NEW TOWN [47.90, -102.33]				
	08/09/10 17:00 CST		50K	Thunderstorm Wind (EG 61 kt)
	08/09/10 17:10 CST		0	Source: Trained Spotter

Storm Data and Unusual Weather Phenomena - August 2010

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

Large hail accompanied the strong thunderstorm winds. Powerlines were reported down along with a carport blown over.

MOUNTRAIL COUNTY --- 9.0 W PARSHALL [47.97, -102.32]

	08/09/10 17:00 CST		65K	Hail (1.75 in)
	08/09/10 17:10 CST		0	Source: Newspaper

The large hail resulted in broken windows to mobile homes.

MOUNTRAIL COUNTY --- 9.0 W PARSHALL [47.97, -102.32]

	08/09/10 17:00 CST		80K	Thunderstorm Wind (EG 70 kt)
	08/09/10 17:10 CST		75K	Source: Newspaper

Large hail accompanied the strong thunderstorm winds. The wind driven hail resulted in broken windows to area homes and some crop damage.

MCKENZIE COUNTY --- 13.8 N GRASSY BUTTE [47.60, -103.26]

	08/09/10 17:28 MST		0	Hail (1.00 in)
	08/09/10 17:36 MST		0	Source: Park/Forest Service

MOUNTRAIL COUNTY --- 8.3 S BLAISDELL [48.21, -102.08]

	08/09/10 17:30 CST		0	Hail (1.00 in)
	08/09/10 17:38 CST		0	Source: Trained Spotter

MOUNTRAIL COUNTY --- TAGUS [48.35, -101.93]

	08/09/10 17:30 CST		0	Hail (0.88 in)
	08/09/10 17:40 CST		0	Source: Public

MOUNTRAIL COUNTY --- 3.3 NNW STANLEY [48.36, -102.42]

	08/09/10 18:46 CST		0	Hail (1.75 in)
	08/09/10 18:51 CST		0	Source: COOP Observer

RENVILLE COUNTY --- 11.9 SSW GRANO [48.47, -101.71]

	08/09/10 19:50 CST		0	Thunderstorm Wind (MG 59 kt)
	08/09/10 19:59 CST		0	Source: Trained Spotter

WARD COUNTY --- 4.6 NW BERTHOLD [48.36, -101.81]

	08/09/10 23:05 CST		0	Hail (1.00 in)
	08/09/10 23:12 CST		0	Source: Law Enforcement

WARD COUNTY --- 4.6 NW BERTHOLD [48.36, -101.81]

	08/09/10 23:05 CST		0	Thunderstorm Wind (EG 52 kt)
	08/09/10 23:12 CST		0	Source: Law Enforcement

Large hail accompanied the strong thunderstorm winds.

WARD COUNTY --- COULEE [48.55, -102.02]

	08/09/10 23:07 CST		35K	Thunderstorm Wind (EG 65 kt)
	08/09/10 23:15 CST		0	Source: Trained Spotter

A trained spotter reported his employer had has barn destroyed by strong thunderstorm winds.

Severe Thunderstorm Watch number 595 was issued for west and north central North Dakota for the late afternoon and evening hours of Monday, August 9th. This was in anticipation of strong to severe thunderstorms developing along a surface front lifting across the state, combined with increasing ascent with the approach of an upper level impulse.

Multiple severe thunderstorm warnings were issued. Numerous reports of large hail and several reports of severe thunderstorm wind gusts were received during this episode.

RENVILLE COUNTY --- MOHALL [48.77, -101.50]

	08/10/10 09:26 CST		0	Hail (0.88 in)
	08/10/10 09:31 CST		0	Source: Public

Storm Data and Unusual Weather Phenomena - August 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MCHEMRY COUNTY --- 5.0 S DEERING [48.33, -101.05]				
	08/10/10 13:30 CST	0		Hail (1.00 in)
	08/10/10 13:45 CST	0		Source: SHAVE Project
WARD COUNTY --- 4.7 N DONNYBROOK [48.59, -101.87]				
	08/10/10 13:38 CST	0		Hail (1.75 in)
	08/10/10 13:43 CST	0		Source: SHAVE Project
WARD COUNTY --- 5.0 N DONNYBROOK [48.59, -101.87]				
	08/10/10 13:45 CST	0		Hail (1.00 in)
	08/10/10 13:59 CST	0		Source: SHAVE Project
RENVILLE COUNTY --- 11.5 SSW NORMA [48.54, -101.84]				
	08/10/10 13:55 CST	0		Hail (1.00 in)
	08/10/10 14:07 CST	0		Source: Trained Spotter
MCCLEAN COUNTY --- 1.0 E RUSO [47.83, -100.91]				
	08/10/10 14:04 CST	0		Hail (1.00 in)
	08/10/10 14:14 CST	0		Source: SHAVE Project
<p>Lingering outflow boundaries over north central North Dakota from earlier thunderstorm activity, combined with several mid level short wave impulses moving over the state, triggered additional scattered thunderstorms during the late morning and early afternoon hours of Tuesday, August 10th.</p> <p>Several reports of large hail were received during this episode.</p>				
MCKENZIE COUNTY --- 4.7 E FAIRVIEW [47.86, -103.93]				
	08/11/10 19:03 MST	0		Hail (1.75 in)
	08/11/10 19:10 MST	0		Source: Public
MCKENZIE COUNTY --- 5.4 NE GRASSY BUTTE [47.45, -103.16]				
	08/11/10 20:01 MST	0		Hail (1.00 in)
	08/11/10 20:16 MST	0		Source: Trained Spotter
ADAMS COUNTY --- 14.9 E HAYNES [45.95, -102.16]				
	08/11/10 20:03 MST	0		Thunderstorm Wind (EG 52 kt)
	08/11/10 20:10 MST	0		Source: Public
<p>The public reported an estimated wind speed of 60 mph.</p>				
DUNN COUNTY --- 15.2 N KILLDEER [47.59, -102.75]				
	08/11/10 20:54 MST	0		Hail (1.75 in)
	08/11/10 21:08 MST	0		Source: Law Enforcement
MOUNTRAIL COUNTY --- 1.5 SSW PARSHALL [47.95, -102.14]				
	08/11/10 22:12 CST	0		Thunderstorm Wind (EG 52 kt)
	08/11/10 22:19 CST	0		Source: Public
<p>Estimated winds of 60 mph were reported.</p>				
DIVIDE COUNTY --- 5.5 E CROSBY [48.91, -103.16]				
	08/11/10 22:18 CST	0		Thunderstorm Wind (EG 52 kt)
	08/11/10 22:25 CST	0		Source: Law Enforcement
<p>Estimated winds of 60 mph were reported along with small hail and very heavy rain.</p>				
WARD COUNTY --- 0.8 NNE DES LACS [48.26, -101.56]				
	08/11/10 23:03 CST	0		Thunderstorm Wind (MG 65 kt)
	08/11/10 23:09 CST	0		Source: Public

Storm Data and Unusual Weather Phenomena - August 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
WARD COUNTY --- 0.9 W MINOT [48.23, -101.30]				
	08/11/10 23:10 CST	0		Thunderstorm Wind (EG 56 kt)
	08/11/10 23:17 CST	0		Source: Broadcast Media
Estimated winds of 65 mph were reported.				
WARD COUNTY --- 0.9 W MINOT [48.23, -101.30]				
	08/11/10 23:16 CST	0		Thunderstorm Wind (MG 50 kt)
	08/11/10 23:21 CST	0		Source: ASOS
This was the second of two rounds of wind to strike the city of Minot. The first round was associated with a gust front, and this second gust was associated with heavy precipitation.				
BURLEIGH COUNTY --- 2.4 E MOFFIT [46.68, -100.23]				
	08/11/10 23:47 CST	0		Thunderstorm Wind (MG 59 kt)
	08/11/10 23:52 CST	0		Source: RAWS
MCLEAN COUNTY --- 6.9 N EMMET [47.75, -101.64]				
	08/11/10 23:51 CST	0		Thunderstorm Wind (MG 53 kt)
	08/12/10 00:01 CST	0		Source: RAWS
STUTSMAN COUNTY --- 0.8 NW JAMESTOWN [46.91, -98.71]				
	08/12/10 01:23 CST	0		Thunderstorm Wind (MG 52 kt)
	08/12/10 01:28 CST	0		Source: ASOS
A mid level trough ejecting northeast through the Northern Rockies, combined with a stalled frontal boundary, resulted in strong to severe thunderstorm development across central Montana in the late afternoon. These storms continued to move and develop eastward into western and portions of central North Dakota during the evening hours of Wednesday, August 11th and into the early morning of Thursday, August 12th.				
Multiple severe thunderstorm warnings were issued. Several reports of large hail and multiple reports of severe thunderstorm wind gusts were received during this episode.				
ADAMS COUNTY --- 0.8 SE REEDER [46.11, -102.94]				
	08/12/10 18:30 MST	0		Hail (1.50 in)
	08/12/10 18:40 MST	0		Source: Trained Spotter
LA MOURE COUNTY --- 8.3 N VERONA [46.49, -98.07]				
	08/12/10 19:14 CST	0		Funnel Cloud
	08/12/10 19:16 CST	0		Source: Public
ADAMS COUNTY --- 5.0 SE REEDER [46.06, -102.89]				
	08/12/10 19:28 MST	0		Hail (1.00 in)
	08/12/10 19:36 MST	0		Source: Trained Spotter
STARK COUNTY --- 0.7 N BELFIELD [46.89, -103.20]				
	08/12/10 19:34 MST	0		Hail (1.75 in)
	08/12/10 19:40 MST	0		Source: Public
BURKE COUNTY --- 0.5 W FLAXTON [48.90, -102.39]				
	08/12/10 19:42 CST	0		Hail (1.75 in)
	08/12/10 19:49 CST	0		Source: Law Enforcement
ADAMS COUNTY --- 4.4 E REEDER [46.11, -102.86]				
	08/12/10 19:45 MST	0		Hail (1.50 in)
	08/12/10 19:53 MST	0		Source: Trained Spotter
ADAMS COUNTY --- 0.5 W HETTINGER [46.00, -102.64]				

Storm Data and Unusual Weather Phenomena - August 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	08/12/10 19:48 MST		0	Thunderstorm Wind (MG 55 kt)
	08/12/10 19:59 MST		0	Source: ASOS
<hr/>				
STARK COUNTY --- 0.8 SE SOUTH HEART [46.86, -102.99]				
	08/12/10 19:50 MST		0.20M	Hail (2.50 in)
	08/12/10 20:12 MST		0.20M	Source: Emergency Manager
<p>The largest hailstone during this event was two and one half inches in diameter. The large hail damaged windows, siding, crops, and vehicles.</p>				
<hr/>				
ADAMS COUNTY --- 0.5 W HETTINGER [46.00, -102.64]				
	08/12/10 19:59 MST		0	Thunderstorm Wind (MG 81 kt)
	08/12/10 20:14 MST		0	Source: ASOS
<hr/>				
BURKE COUNTY --- 5.0 W BOWBELLS [48.80, -102.36], 4.9 W BOWBELLS [48.80, -102.36]				
	08/12/10 20:00 CST		0	Tornado (EF0, L: 0.10 mi , W: 20 yd)
	08/12/10 20:01 CST		0	Source: NWS Storm Survey
<p>A brief tornado touched down in the open country west of Bowbells. No structures were impacted so no damage was done. This tornado was spawned from the same supercell thunderstorm that later produced another brief tornado in Burke County and a long tracked high end EF3 tornado from Burke into Ward County. See the other two tornado entries for Burke County and the tornado entry for Ward County from August 12.</p>				
<hr/>				
BURKE COUNTY --- 1.6 NW BOWBELLS [48.82, -102.27], 1.6 NNW BOWBELLS [48.82, -102.27]				
	08/12/10 20:03 CST		0	Tornado (EF0, L: 0.11 mi , W: 20 yd)
	08/12/10 20:04 CST		0	Source: NWS Storm Survey
<p>A second brief tornado touched down in the open country just west of the Bowbells airport. No structures were impacted so no damage was done. This tornado was spawned from the same supercell thunderstorm that earlier produced a brief tornado in Burke County, and later produced a long tracked high end EF3 tornado from Burke into Ward County. See the other two tornado entries for Burke County and the tornado entry for Ward County from August 12.</p>				
<hr/>				
ADAMS COUNTY --- 0.5 W HETTINGER [46.00, -102.64]				
	08/12/10 20:14 MST		0	Thunderstorm Wind (MG 61 kt)
	08/12/10 20:22 MST		0	Source: ASOS
<hr/>				
BURKE COUNTY --- 3.0 ENE BOWBELLS [48.81, -102.19], 5.4 E BOWBELLS [48.81, -102.13]				
	08/12/10 20:26 CST		0.70M	Tornado (EF3, L: 2.55 mi , W: 400 yd)
	08/12/10 20:40 CST		0.15M	Source: NWS Storm Survey

Storm Data and Unusual Weather Phenomena - August 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>This tornado crossed from Burke County into Ward County. Note that for roughly three miles in the vicinity of the Des Lacs River, U.S. Highway 52 runs right on the Burke and Ward County line. The tornado was right on the highway in this area. This was the location of the worst damage with this tornado. Farm property on the north side of the highway, Burke County, and on the south side of the highway, Ward County, was impacted. One fatality and one injury occurred here, in a single automobile travelling along the highway, on the county line. The vehicle came to rest in a field, nearly 200 yards off the highway, on the south side of the highway, on the east side of the river, in Ward County. See the EF3 tornado entry for Ward County from August 12.</p>				

This third tornado touched down just northeast of Bowbells, Burke County, and tracked east-southeast along U.S. Highway 52, and into Ward County where it dissipated. This EF3 tornado was spawned from the same supercell thunderstorm that earlier produced two brief and weak tornadoes in Burke County.

Meteorologists from the National Weather Service conducted a storm damage survey on Friday, August 13, 2010. Meteorologists walked through the area and spoke with numerous people affected, some of whom were eye witnesses to the event.

Significant damage occurred nearly six miles east of Bowbells, near the Des Lacs River, where U.S. Highway 52 is on the Burke and Ward County line. Three farms were impacted. The worst damage was on the Burke County side of the highway and west side of the river, where a farm home (DI 2, DOD 8) and six outbuildings were destroyed. Nineteen of 21 grain bins were also damaged or destroyed. In addition, a fifty foot air seeder connected to a cultivator, with a combined estimated weight near 60,000 pounds, was moved approximately 100 yards. Based on a lack of scratch marks in the ground it was determined that this equipment was picked up and carried through the air. A second farm, on the Ward County side of the highway, had trees in shelter belts snapped and uprooted and the chimney on the house damaged. A third house, this one on the east side of the river and the Ward County side of the highway, also had significant damage. Here, one camper was thrown into the river on the south side of the Highway 52 bridge that crosses the river, while another camper was thrown into the river and landed on the north side of the bridge, back into Burke County. The house had damage to siding and shingles.

Of all the damage surveyed the absolute worst corresponded to a high EF3 on the Enhanced Fujita Tornado Scale. From that it was determined that peak wind speeds in the tornado were on the order of 165 mph.

One fatality and one injury occurred in an automobile in this same immediate area. A car with two occupants travelling east along U.S. Highway 52 was picked up and carried over the Des Lacs River, and came to rest 200 yards off the highway, in a field east of the river, and on the Ward County side of the highway. The driver of the vehicle was injured and the passenger was killed.

See the other two tornado entries for Burke County, and the EF3 tornado entry for Ward County from August 12 as this tornado crossed into Ward County.

BURKE COUNTY --- BOWBELLS [48.80, -102.25]

08/12/10 20:31 CST	0	Hail (1.00 in)
08/12/10 20:37 CST	0	Source: Law Enforcement

HETTINGER COUNTY --- 0.8 SW MOTT [46.37, -102.33]

08/12/10 20:35 MST	0.15M	Thunderstorm Wind (EG 80 kt)
08/12/10 20:45 MST	0.20M	Source: Emergency Manager

Damage was reported to trees and power lines. Damage was also reported to a grain bin and an elevator roof in the city of Mott.

HETTINGER COUNTY --- REGENT [46.42, -102.55]

08/12/10 20:35 MST	0	Thunderstorm Wind (EG 70 kt)
08/12/10 20:45 MST	0	Source: CoCoRaHS

Estimated winds of 80 mph were reported.

WARD COUNTY --- 9.7 NNE NIOBE [48.81, -102.13], 9.2 N KENMARE [48.80, -102.08]

08/12/10 20:40 CST	1	0.50M	Tornado (EF3, L: 2.48 mi , W: 400 yd)
08/12/10 20:55 CST	1	0.10M	Source: NWS Storm Survey

Storm Data and Unusual Weather Phenomena - August 2010

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

This tornado crossed from Burke County into Ward County. Note that for roughly three miles in the vicinity of the Des Lacs River, U.S. Highway 52 runs right on the Burke and Ward County line. The tornado was right on the highway in this area. This was the location of the worst damage with this tornado. Farm property on the north side of the highway, Burke County, and on the south side of the highway, Ward County, was impacted. One fatality and one injury occurred here, in a single automobile travelling along the highway, on the county line. The vehicle came to rest in a field, nearly 200 yards off the highway, on the south side of the highway, on the east side of the river, in Ward County. See the EF3 tornado entry for Burke County from August 12.

This third tornado touched down just northeast of Bowbells, Burke County, and tracked east-southeast along U.S. Highway 52, and into Ward County where it dissipated. This EF3 tornado was spawned from the same supercell thunderstorm that earlier produced two brief and weak tornadoes in Burke County.

Meteorologists from the National Weather Service conducted a storm damage survey on Friday, August 13, 2010. Meteorologists walked through the area and spoke with numerous people affected, some of whom were eye witnesses to the event.

Significant damage occurred nearly six miles east of Bowbells, near the Des Lacs River, where U.S. Highway 52 is on the Burke and Ward County line. Three farms were impacted. The worst damage was on the Burke County side of the highway and west side of the river, where a farm home (DI 2, DOD 8) and six outbuildings were destroyed. Nineteen of 21 grain bins were also damaged or destroyed. In addition, a fifty foot air seeder connected to a cultivator, with a combined estimated weight near 60,000 pounds, was moved approximately 100 yards. Based on a lack of scratch marks in the ground it was determined that this equipment was picked up and carried through the air. A second farm, on the Ward County side of the highway, had trees in shelter belts snapped and uprooted and the chimney on the house damaged. A third house, this one on the east side of the river and the Ward County side of the highway, also had significant damage. Here, one camper was thrown into the river on the south side of the Highway 52 bridge that crosses the river, while another camper was thrown into the river and landed on the north side of the bridge, back into Burke County. The house had damage to siding and shingles.

Of all the damage surveyed the absolute worst corresponded to a high EF3 on the Enhanced Fujita Tornado Scale. From that it was determined that peak wind speeds in the tornado were on the order of 165 mph.

One fatality and one injury occurred in an automobile in this same immediate area. A car with two occupants travelling east along U.S. Highway 52 was picked up and carried over the Des Lacs River, and came to rest 200 yards off the highway, in a field east of the river, and on the Ward County side of the highway. The driver of the vehicle was injured and the passenger was killed.

See the other three tornado entries for Burke County from this event on August 12. This tornado crossed into Ward County from Burke.

Direct Fatalities: M51VE

SIoux COUNTY --- 0.7 N SELFRIDGE [46.04, -100.93]

08/12/10 21:23 MST	0	Thunderstorm Wind (EG 61 kt)
08/12/10 21:33 MST	0	Source: Law Enforcement

Estimated winds of 70 mph were reported.

RENVILLE COUNTY --- 0.5 W TOLLEY [48.73, -101.83]

08/12/10 22:22 CST	0	Hail (1.00 in)
08/12/10 22:27 CST	0	Source: Public

EMMONS COUNTY --- LINTON [46.27, -100.23]

08/12/10 22:50 CST	15K	Thunderstorm Wind (EG 70 kt)
08/12/10 22:59 CST	0	Source: Newspaper

Strong thunderstorm winds tore the roof off of a trailer home.

MORTON COUNTY --- 0.5 E ST ANTHONY [46.62, -100.91]

08/12/10 23:18 CST	0	Thunderstorm Wind (MG 63 kt)
08/12/10 23:28 CST	0	Source: Mesonet

A significant severe weather event evolved during the evening hours of Thursday, August 12th, and continued into the early morning hours of Friday, August 13th. Southwest flow aloft was in place across the Northern Plains region, ahead of an upper level trough over the Northern Rockies. A potent upper level impulse ejecting from the base of the trough provided the trigger for two areas of strong to severe convection. The first area was near a stationary boundary across southern North Dakota, where intense thunderstorm winds of 80 to near 100 mph were observed. The second area was ahead of a cold front over north central North Dakota, where an isolated tornadic supercell developed and spawned an EF3 tornado near Bowbells.

Well into this event, Severe Thunderstorm Watch number 605 was issued across southwest and south central North Dakota in anticipation of a Mesoscale Convective System over southwest North Dakota tracking eastward along the South Dakota border area. By

Storm Data and Unusual Weather Phenomena - August 2010

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

the time of the watch issuance, the tornadic supercell over north central North Dakota had dissipated.

Multiple severe thunderstorm and tornado warnings were issued. Several reports of large hail, numerous reports of strong thunderstorm winds, and one confirmed EF3 tornado was received during this episode.

The EF3 tornado tragically claimed one fatality. An automobile traveling east on Highway 52 was picked up and carried several hundred yards before being thrown into a field. Another person in the car was injured. In addition, a farmstead sustained heavy damage from the tornado, with severe damage observed to the home and several outbuildings.

(ND-Z034) MORTON, (ND-Z035) BURLEIGH, (ND-Z045) SIOUX, (ND-Z046) EMMONS

08/12/10 23:18 CST	0	High Wind (MAX 73 kt)
08/13/10 00:58 CST	0	

Strong winds developed on the backside of thunderstorm activity, as lingering showers enabled strong winds associated with a nocturnal low level jet to reach the surface. Winds in excess of 80 mph were observed.

WELLS COUNTY --- 1.2 SE HEATON [47.47, -99.51]

08/30/10 04:01 CST	0	Hail (1.75 in)
08/30/10 04:11 CST	0	Source: Trained Spotter

WELLS COUNTY --- 1.2 SE HEATON [47.47, -99.51]

08/30/10 04:30 CST	0	Hail (1.75 in)
08/30/10 04:36 CST	0	Source: Trained Spotter

An isolated severe thunderstorm resulted in two reports of large hail over Wells County in east central North Dakota.

DICKEY COUNTY --- 6.0 SW GUELPH [45.96, -98.32]

08/30/10 16:20 CST	0	Thunderstorm Wind (EG 52 kt)
08/30/10 16:26 CST	0	Source: Trained Spotter

An estimated wind gust of 60 mph was received.

Severe Thunderstorm Watch number 635 was issued for south central and southeastern North Dakota during the late afternoon hours of Monday, August 30th. This was in anticipation of rapid thunderstorm development near a frontal boundary lifting northeast into eastern North Dakota.

One report of a severe thunderstorm wind gust was received during this episode.