

Storm Data and Unusual Weather Phenomena - May 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
NORTH DAKOTA, Central and West				
(ND-Z017) MCKENZIE, (ND-Z018) DUNN, (ND-Z031) GOLDEN VALLEY, (ND-Z032) BILLINGS, (ND-Z033) STARK, (ND-Z040) SLOPE, (ND-Z041) HETTINGER, (ND-Z042) GRANT, (ND-Z043) BOWMAN, (ND-Z044) ADAMS, (ND-Z045) SIOUX				
	05/04/10 03:12 CST		0	High Wind (MAX 61 kt)
	05/04/10 18:30 CST		0	
A surface cold front pushing east across the local area brought strong wind gusts of 60 to 70 mph to much of southwestern North Dakota during the morning and afternoon hours of Tuesday, May 4th.				
(ND-Z019) MERCER, (ND-Z020) OLIVER, (ND-Z021) MCLEAN, (ND-Z034) MORTON, (ND-Z035) BURLEIGH, (ND-Z036) KIDDER, (ND-Z037) STUTSMAN, (ND-Z040) SLOPE, (ND-Z041) HETTINGER, (ND-Z042) GRANT, (ND-Z044) ADAMS, (ND-Z045) SIOUX, (ND-Z047) LOGAN, (ND-Z048) LA MOURE, (ND-Z050) MCINTOSH, (ND-Z051) DICKEY				
	05/06/10 05:00 CST		0	Winter Weather
	05/07/10 18:00 CST		0	
(ND-Z043) BOWMAN				
	05/06/10 05:00 CST		0	Heavy Snow
	05/07/10 11:00 CST		0	
A spring storm system brought moderate to heavy rain and snow to portions of the Northern Plains from Thursday morning of May 6th, through early Friday evening of May 7th.				
Rain and snow developed across southwestern North Dakota on Thursday morning, then spread north and east Thursday daytime into Friday. Accumulating snowfall was limited over most locations due to warm ground and surface temperatures. Still, several inches of wet snow was realized from the southwest corner of the state east across the south central and into the James River Valley. The highest amounts occurred where heavy snow bands developed, over the higher terrain of the far southwest and across Grant and Morton Counties.				
EMMONS COUNTY --- LINTON [46.27, -100.23]				
	05/22/10 03:00 CST		50K	Thunderstorm Wind (EG 70 kt)
	05/22/10 04:00 CST		0	Source: COOP Observer
Severe thunderstorm wind gusts resulted in damage to a roof of an old elementary school and several large trees blown over in Linton.				
During the early morning hours of Saturday, May 22nd, scattered nocturnal thunderstorms across south central North Dakota helped to transport strong winds associated with a low level jet to the surface. Severe thunderstorm wind gusts occurred across central Emmons County and blew off part of a roof of a local elementary school in Linton, as well as resulting in several large trees being blown down.				
WARD COUNTY --- 0.9 W MINOT [48.23, -101.30]				
	05/22/10 12:35 CST		0	Hail (1.00 in)
	05/22/10 12:45 CST		0	Source: Law Enforcement
Nickel to quarter size hail fell across the city of Minot.				
WARD COUNTY --- 4.3 NW BURLINGTON [48.32, -101.49], 6.4 N SURREY [48.32, -101.10], 3.9 S SURREY [48.17, -101.13], 5.8 S BURLINGTON [48.20, -101.44]				
	05/22/10 12:45 CST		25K	Flash Flood (due to Heavy Rain)
	05/22/10 13:15 CST		0	Source: Newspaper
Thunderstorms with very heavy rain fell across portions of central Ward County. In the city of Minot, underpasses became flooded along with several streets. Local firefighters rescued one person whose vehicle became submerged in the sixth street underpass in Minot.				
An early afternoon thunderstorm brought large hail and very heavy rain to portions of central Ward County in north central North Dakota Saturday, May 22nd.				
EMMONS COUNTY --- 9.0 S KINTYRE [46.42, -99.95]				
	05/22/10 19:05 CST		0	Hail (1.25 in)
	05/22/10 19:13 CST		0	Source: Trained Spotter

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
DICKEY COUNTY --- 0.8 NE GUELPH [46.03, -98.22]				
	05/22/10 20:27 CST		0	Hail (1.00 in)
	05/22/10 20:33 CST		0	Source: Trained Spotter
<p>Tornado Watch number 202 and Severe Thunderstorm Watch number 204 were issued for portions of central and eastern North Dakota for the late afternoon and evening hours of Saturday, May 22nd. Surface low pressure over central South Dakota, combined with high instability and favorable wind shear, resulted in the development of strong to severe thunderstorms across south central North Dakota Saturday evening. Two reports of large hail were received.</p>				
KIDDER COUNTY --- 5.2 SSW LAKE WILLIAMS [47.06, -99.64]				
	05/24/10 09:30 CST		0	Hail (1.00 in)
	05/24/10 09:37 CST		0	Source: Law Enforcement
<p>A surface warm front lifting slowly north into southern North Dakota, combined with a waning low level jet and steepening mid level lapse rates, contributed to the development of scattered thunderstorms from the mid morning into the early afternoon across south central North Dakota. Thunderstorm activity was confined to east of the Missouri River and around the James River Valley. One report of large hail was received.</p>				
HETTINGER COUNTY --- 9.7 S NEW ENGLAND [46.39, -102.87]				
	05/24/10 15:19 MST		0	Funnel Cloud
	05/24/10 15:21 MST		0	Source: Law Enforcement
<p>Two funnel clouds were reported along Highway 22 south of New England.</p>				
HETTINGER COUNTY --- 0.8 SW MOTT [46.37, -102.33]				
	05/24/10 15:30 MST		20K	Thunderstorm Wind (EG 52 kt)
	05/24/10 15:40 MST		0	Source: COOP Observer
<p>Severe thunderstorm wind gusts resulted in shingle damage to a home and three to five inch diameter trees broken.</p>				
GRANT COUNTY --- 11.8 S NEW LEIPZIG [46.20, -101.95]				
	05/24/10 16:00 MST		60K	Thunderstorm Wind (EG 74 kt)
	05/24/10 16:15 MST		0	Source: NWS Storm Survey
<p>Straight line winds associated with a severe thunderstorm destroyed two outbuildings on a farm. The wind speed was estimated based on the damaged observed during a storm survey.</p>				
SIOUX COUNTY --- 50.4 W SELFRIDGE [46.04, -101.98], 50.4 W SELFRIDGE [46.05, -101.98]				
	05/24/10 16:05 MST		25K	Tornado (EF1, L: 0.73 mi , W: 40 yd)
	05/24/10 16:10 MST		0	Source: NWS Storm Survey
<p>A tornado touched down in western Sioux County and crossed into southwest Grant County. Damage was sustained to a roof on a farmstead in Sioux County. Based on a storm survey of the area damage was consistent with a low end EF1 tornado. From that it was determined that wind speeds were around 90 mph. The tornado crossed into Grant County. See the tornado entry for Grant County.</p>				
STARK COUNTY --- 0.5 W LEFOR [46.68, -102.56]				
	05/24/10 16:05 MST		0	Hail (1.75 in)
	05/24/10 16:14 MST		0	Source: Mesonet
<p>No damage was reported.</p>				
GRANT COUNTY --- 22.1 S NEW LEIPZIG [46.05, -101.98], 21.2 S NEW LEIPZIG [46.06, -101.98]				
	05/24/10 16:10 MST		0	Tornado (EF1, L: 0.90 mi , W: 40 yd)
	05/24/10 16:15 MST		0	Source: NWS Storm Survey
<p>This tornado crossed into southwest Grant County from western Sioux County. See the tornado entry for Sioux County. The tornado hit no structures in Grant County, but did do damage in Sioux County. It was rated low end EF1 with estimated winds of 90 mph.</p>				
GRANT COUNTY --- 9.7 N CARSON [46.56, -101.57]				
	05/24/10 16:20 MST		30K	Thunderstorm Wind (EG 70 kt)
	05/24/10 16:27 MST		0	Source: NWS Storm Survey

Storm Data and Unusual Weather Phenomena - May 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Strong straight line winds associated with a severe thunderstorm resulted in several large evergreen and cottonwood trees to become uprooted or were blown over. The wind speed was estimated from a storm survey.

ADAMS COUNTY --- 0.5 W HETTINGER [46.00, -102.64]

	05/24/10 16:37 MST		0	Thunderstorm Wind (MG 53 kt)
	05/24/10 16:42 MST		0	Source: ASOS

MCINTOSH COUNTY --- 13.2 ENE ASHLEY [46.11, -99.12]

	05/24/10 17:00 CST		50K	Thunderstorm Wind (EG 70 kt)
	05/24/10 17:15 CST		0	Source: Law Enforcement

Strong straight line winds associated with a severe thunderstorm resulted in damage to farm outbuildings.

LA MOURE COUNTY --- 10.1 SSW JUD [46.38, -98.94]

	05/24/10 17:10 CST		0.10M	Thunderstorm Wind (EG 78 kt)
	05/24/10 17:25 CST		0	Source: Emergency Manager

Extreme straight line winds associated with a severe thunderstorm caused extensive damage north of Kulm. Visual inspection of storm survey photos indicate estimated winds of 90 to 105 mph. The strong winds blew off the sheet metal on a building on this farmstead.

LA MOURE COUNTY --- 10.7 SW JUD [46.40, -98.02]

	05/24/10 17:10 CST		0.25M	Thunderstorm Wind (EG 78 kt)
	05/24/10 17:25 CST		0	Source: Emergency Manager

Extreme straight line winds associated with a severe thunderstorm caused extensive damage north of Kulm. Visual inspection of storm survey photos indicate estimated winds of 90 to 105 mph. Four farmsteads in this area had damage. Damage included farm machinery tipped over, damage to grain bins, and a few farm outbuildings destroyed.

LA MOURE COUNTY --- 12.9 WSW EDGELEY [46.32, -98.96]

	05/24/10 17:10 CST		1M	Thunderstorm Wind (EG 91 kt)
	05/24/10 17:25 CST		0	Source: Emergency Manager

Extreme straight line winds associated with a severe thunderstorm caused extensive damage north of Kulm. Visual inspection of storm survey photos indicate estimated winds of 90 to 105 mph. The worst damage and highest estimated winds occurred roughly 2 miles north-northwest of Kulm where 4 large grain bins were destroyed and heavy damage was sustained to a shop on a farmstead. Also, one wall was destroyed and the roof collapsed on a large machine shed, and several pieces of farm machinery had damage from being blown over. Preliminary damage estimates indicated one million dollars to this one location. Other areas north of Kulm also sustained damage from the straight line wind gusts, but not as severe.

LA MOURE COUNTY --- 7.9 SSW JUD [46.41, -98.92]

	05/24/10 17:10 CST		0.15M	Thunderstorm Wind (EG 78 kt)
	05/24/10 17:25 CST		0	Source: Emergency Manager

Extreme straight line winds associated with a severe thunderstorm caused extensive damage north of Kulm. Visual inspection of storm survey photos indicate estimated winds of 90 to 105 mph. The strong winds blew off the sheet metal on a barn, did damage to a garage wall, snapped some trees, and bent metal on a shop on this farmstead.

DICKEY COUNTY --- 0.5 W ELLENDALE [46.00, -98.53]

	05/24/10 17:15 CST		0	Hail (1.25 in)
	05/24/10 17:21 CST		0	Source: Mesonet

STUTSMAN COUNTY --- 10.0 SW JAMESTOWN [46.80, -98.85], 10.0 S JAMESTOWN [46.76, -98.70], 2.0 NE JAMESTOWN [46.92, -98.67], 2.0 NW JAMESTOWN [46.92, -98.73]

	05/24/10 17:35 CST		50K	Flash Flood (due to Heavy Rain)
	05/24/10 19:30 CST		0	Source: Newspaper

Flash flooding was reported in and around the Jamestown area due to very heavy thunderstorm rains. Several streets had several feet of water and minor damage was done to buildings by flood waters. Some county roads outside the city had water over them. Significant damage was not reported.

STUTSMAN COUNTY --- 0.8 NW JAMESTOWN [46.91, -98.71]

	05/24/10 17:37 CST		0	Thunderstorm Wind (MG 53 kt)
	05/24/10 17:42 CST		0	Source: ASOS

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MORTON COUNTY --- 4.7 E ALMONT [46.73, -101.40]				
	05/24/10 17:50 CST		80K	Thunderstorm Wind (EG 70 kt)
	05/24/10 18:05 CST		0	Source: NWS Storm Survey
Strong straight line winds associated with a severe thunderstorm tore the roof off of a farm outbuilding, broke off tree branches, blew down a small wind turbine, and pushed a large old barn so that it now leans towards the north. Wind speed was estimated from the visual inspection of damage during a storm survey.				
MORTON COUNTY --- 0.5 W HEBRON [46.90, -102.04]				
	05/24/10 17:54 CST		0	Hail (1.00 in)
	05/24/10 18:01 CST		0	Source: Law Enforcement
MORTON COUNTY --- GLEN ULLIN [46.82, -101.83]				
	05/24/10 17:54 CST		0	Hail (1.00 in)
	05/24/10 18:01 CST		0	Source: Law Enforcement
MORTON COUNTY --- 0.7 N FLASHER [46.46, -101.23]				
	05/24/10 18:00 CST		0	Thunderstorm Wind (EG 50 kt)
	05/24/10 18:08 CST		0	Source: COOP Observer
Numerous tree branches were blown down in Flasher from severe thunderstorm wind gusts.				
SIOUX COUNTY --- 6.1 NNW FT YATES [46.15, -100.70], 6.7 NNW FT YATES [46.17, -100.68]				
	05/24/10 18:09 MST		5K	Tornado (EF0, L: 1.35 mi , W: 35 yd)
	05/24/10 18:13 MST		0	Source: COOP Observer
This tornado was not reported to the National Weather Service in real time. It was determined, based on information gathered, that this tornado formed north-northwest of Fort Yates, and moved northeast. There were no injuries. Reports indicate very minor damage to fences and a trailer home. There were no injuries. From that it was determined that this was an EF0 tornado with wind speeds then estimated, based on the EF Scale, at about 70 mph.				
MORTON COUNTY --- 1.0 N NEW SALEM [46.86, -101.42], 8.2 NNE NEW SALEM [46.96, -101.37]				
	05/24/10 18:15 CST		1.30M	Thunderstorm Wind (EG 83 kt)
	05/24/10 18:45 CST		0	Source: NWS Storm Survey
A large fertilizer building north of New Salem sustained heavy damage from extreme straight line winds associated with a severe thunderstorm. Visual inspection of the damage conducted during a storm survey indicates estimated winds of 95 mph. Much of the damage was to the roof of the building, in which much of the metal roof was peeled back and blown off to the north. Preliminary damage was estimated at over one million dollars to the building and loss of fertilizer.				
Additional damage from severe thunderstorm winds was observed north-northeast of New Salem towards the Morton County and Oliver County border. Several farms had damage to outbuildings, trees, and farm equipment. Damage here was estimated at one quarter of a million dollars.				
OLIVER COUNTY --- 2.8 W CENTER [47.12, -101.36]				
	05/24/10 18:21 CST		0	Thunderstorm Wind (EG 50 kt)
	05/24/10 18:27 CST		0	Source: Public
Very heavy rain accompanied the strong thunderstorm winds.				
BURLEIGH COUNTY --- 2.7 ESE (BIS)BISMARCK MUNI A [46.76, -100.70]				
	05/24/10 19:24 CST		0	Hail (1.00 in)
	05/24/10 19:29 CST		0	Source: Public
BURLEIGH COUNTY --- 2.8 W DRISCOLL [46.85, -100.19], 0.5 SE ARENA [47.12, -100.16]				
	05/24/10 19:35 CST		0.20M	Thunderstorm Wind (EG 74 kt)
	05/24/10 20:05 CST		0	Source: NWS Storm Survey
A farmstead one mile west of Driscoll sustained damage to two outbuildings. Tree damage was evident from just north of Driscoll, northward to Arena. A farmstead five miles south of Arena had one outbuilding damaged. The damage was indicative of severe thunderstorm straight line winds up to 85 miles per hour.				
EMMONS COUNTY --- LINTON [46.27, -100.23]				

Storm Data and Unusual Weather Phenomena - May 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/24/10 19:40 CST		90K	Thunderstorm Wind (EG 70 kt)
	05/24/10 19:59 CST		0	Source: Emergency Manager

Strong winds associated with a severe thunderstorm resulted in moderate damage within the city of Linton. Parts of the roof were torn off of the Linton fire hall and several trees were blown down. Reports of damage to other roofs in Linton and several power lines blown down were also received.

BURLEIGH COUNTY --- WING [47.13, -100.28]

	05/24/10 19:44 CST		50K	Thunderstorm Wind (EG 74 kt)
	05/24/10 19:51 CST		0	Source: Emergency Manager

Damage was reported near Wing from severe thunderstorm wind gusts. Several trees and power lines were blown down, along with damage to a deck on a home.

BURLEIGH COUNTY --- 2.0 E ARENA [47.13, -100.13]

	05/24/10 19:47 CST		0.40M	Thunderstorm Wind (EG 78 kt)
	05/24/10 19:58 CST		0	Source: NWS Storm Survey

A farmstead two miles east of Arena sustained heavy damage from severe thunderstorm straight line winds. One outbuilding was destroyed, a television antenna was blown down, roof damage was sustained to the home and another outbuilding, and several trees had damage. The severity of the damage was indicative of winds up to 90 miles per hour.

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

	05/24/10 19:51 CST		20K	Thunderstorm Wind (EG 56 kt)
	05/24/10 19:59 CST		0	Source: Mesonet

Twenty inch in diameter trees were reported blown down from severe thunderstorm wind gusts.

BURLEIGH COUNTY --- 2.5 E MOFFIT [46.68, -100.23]

	05/24/10 19:53 CST		0	Thunderstorm Wind (MG 55 kt)
	05/24/10 19:58 CST		0	Source: RAWS

Peak thunderstorm wind gust reported at the Long Lake National Wildlife Refuge.

BURLEIGH COUNTY --- 2.8 S DRISCOLL [46.81, -100.12]

	05/24/10 19:53 CST		0	Thunderstorm Wind (MG 56 kt)
	05/24/10 19:58 CST		0	Source: Storm Chaser

KIDDER COUNTY --- 5.5 S TUTTLE [47.07, -99.99]

	05/24/10 20:00 CST		55K	Thunderstorm Wind (EG 65 kt)
	05/24/10 20:11 CST		0	Source: Mesonet

Severe thunderstorm wind gusts damaged a shed and destroyed a garage.

KIDDER COUNTY --- 6.5 SSE TUTTLE [47.06, -99.93], 4.3 SSE TUTTLE [47.10, -99.93]

	05/24/10 20:00 CST		0.25M	Tornado (EF1, L: 2.35 mi , W: 70 yd)
	05/24/10 20:10 CST		0	Source: Public

The public reported damage to farms in the area. Most of the damage was caused by thunderstorm winds, however, the damage in one area was descriptive of a tornado. The farmer with the worst damage described objects scattered about in east, north, northwest, and west directions. His description of the debris field indicated that this was likely a tornado. Vehicles were damaged, along with garages, stalls, and barns. Trees were uprooted. One garage was blown to the west, while animal feeders were blown to the east. Based on the description of damage it was determined that this was an EF1 tornado. From that the estimated wind speed was around 100 mph.

LOGAN COUNTY --- 6.0 W NAPOLEON [46.50, -99.90], 2.0 NW NAPOLEON [46.52, -99.80]

	05/24/10 20:00 CST		0.50M	Thunderstorm Wind (EG 78 kt)
	05/24/10 20:20 CST		0.10M	Source: Newspaper

There was significant damage to farms from about six miles west of Napoleon to about two miles northwest of Napoleon. Damage was done to pole barns and other outbuildings. Six power poles were snapped and one cow was killed in the area west of Napoleon. There was also crop damage.

KIDDER COUNTY --- 4.9 S TAPPEN [46.80, -99.64]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/24/10 20:24 CST		0	Thunderstorm Wind (EG 56 kt)
	05/24/10 20:30 CST		0	Source: Trained Spotter

Heavy rain accompanied the strong winds.

SHERIDAN COUNTY --- 1.0 W MARTIN [47.83, -100.14], 1.0 E MARTIN [47.83, -100.10]

	05/24/10 20:30 CST		10K	Thunderstorm Wind (EG 70 kt)
	05/24/10 20:50 CST		0	Source: Public

There was damage to an outbuilding on a farm and to trees. Heavy rain accompanied the strong thunderstorm winds.

WELLS COUNTY --- 2.0 SW HURDSFIELD [47.43, -99.93]

	05/24/10 20:30 CST		20K	Thunderstorm Wind (EG 61 kt)
	05/24/10 20:45 CST		0	Source: Public

Strong winds associated with a severe thunderstorm blew over a semi trailer near Hurdsfield.

WELLS COUNTY --- 4.4 ENE CHASELEY [47.47, -99.71]

	05/24/10 20:30 CST		20K	Thunderstorm Wind (EG 70 kt)
	05/24/10 20:45 CST		0	Source: Broadcast Media

Strong winds associated with a severe thunderstorm caused some damage to a home.

WELLS COUNTY --- 1.5 W HARVEY [47.77, -99.93]

	05/24/10 20:36 CST		0.20M	Thunderstorm Wind (EG 70 kt)
	05/24/10 20:51 CST		0	Source: Newspaper

Very strong winds associated with a severe thunderstorm damaged a building at the Harvey airport and also blew over numerous trees and some power lines. Other structural damage was also sustained in and around the Harvey area.

PIERCE COUNTY --- 3.7 NNE BALTA [48.22, -100.00]

	05/24/10 20:58 CST		0	Thunderstorm Wind (EG 56 kt)
	05/24/10 21:08 CST		0	Source: NWS Employee

Very heavy rain accompanied the severe thunderstorm winds.

A surface warm front continued to lift slowly north across southern North Dakota during the day on Monday, May 24th, in advance of a potent upper level trough racing northeast across the Rocky Mountains and towards the Northern Plains. Tornado Watch number 215 was issued by mid afternoon in anticipation of rapid thunderstorm development and intensification once mass divergence associated with the upper wave spread across the region. An elevated threat for tornadoes existed along the warm front due to favorable low level vertical shear parameters.

Numerous severe thunderstorm and tornado warnings were issued from late in the afternoon till later in the evening. Several reports of large hail, multiple reports of severe thunderstorm winds, and several reports of funnel clouds and tornadoes were received during this event. The number of confirmed tornadoes was two.

(ND-Z001) DIVIDE, (ND-Z002) BURKE, (ND-Z003) RENVILLE, (ND-Z004) BOTTINEAU, (ND-Z005) ROLETTE, (ND-Z009) WILLIAMS, (ND-Z010) MOUNTRAIL, (ND-Z011) WARD, (ND-Z012) MCHENRY, (ND-Z013) PIERCE, (ND-Z017) MCKENZIE, (ND-Z018) DUNN, (ND-Z019) MERCER, (ND-Z020) OLIVER, (ND-Z021) MCLEAN, (ND-Z022) SHERIDAN, (ND-Z023) WELLS, (ND-Z031) GOLDEN VALLEY, (ND-Z032) BILLINGS, (ND-Z033) STARK, (ND-Z034) MORTON, (ND-Z035) BURLEIGH, (ND-Z040) SLOPE, (ND-Z041) HETTINGER, (ND-Z042) GRANT, (ND-Z043) BOWMAN, (ND-Z044) ADAMS	05/24/10 22:08 CST	0.49M	High Wind (MAX 55 kt)
	05/25/10 16:00 CST	0	

A deep low pressure system lifting north into south central Canada brought strong winds to much of the Northern Plains from Monday night of the 24th through Tuesday afternoon of the 25th. Sustained winds measuring over 45 mph with gusts in excess of 60 mph resulted in numerous reports of tree damage, a few reports of power lines blown down, and scattered reports of damage to property.

WARD COUNTY --- 2.5 WNW MINOT [48.25, -101.33], 2.7 SW MINOT [48.20, -101.32], 1.5 SE MINOT [48.21, -101.26], 1.2 N MINOT [48.25, -101.28]

	05/27/10 10:10 CST		35K	Flash Flood (due to Heavy Rain)
	05/27/10 12:10 CST		0	Source: Broadcast Media

Two inches of rain resulted in a few feet of water running through Minot streets. Underpasses in the city were flooded and blocked. Minor damage occurred to culverts.

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MCLEAN COUNTY --- 4.2 N ROSEGLEN [47.81, -101.84]				
	05/27/10 11:08 CST		0	Hail (1.00 in)
	05/27/10 11:14 CST		0	Source: Broadcast Media
WARD COUNTY --- 3.9 SSE BURLINGTON [48.23, -101.38]				
	05/27/10 12:01 CST		0	Hail (1.00 in)
	05/27/10 12:10 CST		0	Source: Public
WARD COUNTY --- 8.6 NW SOUTH PRAIRIE [48.14, -101.43]				
	05/27/10 12:01 CST		0	Hail (1.00 in)
	05/27/10 12:08 CST		0	Source: Public
WARD COUNTY --- 0.9 W MINOT [48.23, -101.30]				
	05/27/10 12:14 CST		0	Hail (1.00 in)
	05/27/10 12:21 CST		0	Source: Public
RENVILLE COUNTY --- 1.0 WSW SHERWOOD [48.97, -101.64], 1.3 SW SHERWOOD [48.96, -101.64], 0.9 SSW SHERWOOD [48.96, -101.63], 0.4 SW SHERWOOD [48.97, -101.63]				
	05/27/10 12:17 CST		25K	Flash Flood (due to Heavy Rain)
	05/27/10 13:17 CST		0	Source: Law Enforcement
Local law enforcement reported water over several roads in the city of Sherwood. Another report from a trained weather spotter also indicated flash flooding in Sherwood. Some lower maintenance roads were damaged.				
Slow moving thunderstorms resulted in heavy rainfall and flash flooding over portions of north central North Dakota during the morning and early afternoon hours of Thursday, May 27th. In addition, some of the storms became severe and produced several reports of large hail.				
DIVIDE COUNTY --- 3.1 WSW NOONAN [48.86, -103.06]				
	05/28/10 04:20 CST		0	Hail (1.00 in)
	05/28/10 04:24 CST		0	Source: Trained Spotter
DIVIDE COUNTY --- 2.8 ENE NOONAN [48.89, -102.94]				
	05/28/10 04:30 CST		0	Hail (1.00 in)
	05/28/10 04:40 CST		0	Source: Public
BURKE COUNTY --- 4.1 NNW LARSON [48.93, -102.88]				
	05/28/10 04:50 CST		0	Hail (0.88 in)
	05/28/10 04:57 CST		0	Source: Trained Spotter
RENVILLE COUNTY --- 8.7 W SHERWOOD [48.96, -101.81]				
	05/28/10 05:20 CST		0	Hail (1.00 in)
	05/28/10 05:28 CST		0	Source: Emergency Manager
RENVILLE COUNTY --- 3.0 WNW SHERWOOD [48.99, -101.68]				
	05/28/10 05:30 CST		40K	Thunderstorm Wind (EG 52 kt)
	05/28/10 05:40 CST		0	Source: Emergency Manager
Severe thunderstorm winds resulted in snapped power lines.				
Scattered severe thunderstorms which impacted much of eastern Montana during the evening hours of Thursday, May 27th, eventually developed north and east into northwestern and far north central North Dakota near daybreak Friday morning of May 28th. Convection was focused along a slow moving warm front stretching from southeastern Montana northeast into north central North Dakota. Several reports of large hail and one report of severe thunderstorm winds were received early Friday morning.				
WILLIAMS COUNTY --- 0.5 W WILLISTON [48.15, -103.63]				
	05/29/10 02:12 CST		0	Hail (0.75 in)
	05/29/10 02:19 CST		0	Source: Official NWS Observations

Storm Data and Unusual Weather Phenomena - May 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
WILLIAMS COUNTY --- 3.5 S GRE Nora [48.57, -103.94], 1.3 SSE GRE Nora [48.60, -103.92], 2.7 W HANKS [48.60, -103.86], 3.5 SW HANKS [48.57, -103.86]				
	05/29/10 02:31 CST		45K	Flash Flood (due to Heavy Rain)
	05/29/10 03:31 CST		0	Source: Emergency Manager
Several culverts were washed out along with flooding at an oil drilling site.				
WILLIAMS COUNTY --- 0.5 W TIOGA [48.40, -102.94]				
	05/29/10 02:37 CST		0	Thunderstorm Wind (MG 58 kt)
	05/29/10 02:42 CST		0	Source: Trained Spotter
WILLIAMS COUNTY --- 1.1 NNE ALAMO [48.59, -103.46], 3.1 SSE ALAMO [48.54, -103.44], 2.3 SSW APPAM [48.54, -103.61], 2.4 NNW APPAM [48.60, -103.60]				
	05/29/10 03:00 CST		20K	Flash Flood (due to Heavy Rain)
	05/29/10 04:00 CST		0	Source: Broadcast Media
Public reports of flash flooding were received via broadcast media over rural north central Williams County. Rainfall rates were reported to be around two inches in less than 45 minutes. Some county roads were damaged by the flowing water.				
BURKE COUNTY --- COLUMBUS [48.90, -102.77]				
	05/29/10 03:10 CST		5K	Thunderstorm Wind (EG 65 kt)
	05/29/10 03:15 CST		0	Source: Public
The high thunderstorm wind damaged oil tanks. The tanks were overturned. The time and wind speed are both estimated.				
DIVIDE COUNTY --- 13.4 SSW AMBROSE [48.76, -103.53]				
	05/29/10 03:35 CST		0	Hail (1.00 in)
	05/29/10 03:40 CST		0	Source: Public
WARD COUNTY --- 0.8 SSW BERTHOLD [48.31, -101.74]				
	05/29/10 03:47 CST		0	Hail (1.00 in)
	05/29/10 03:53 CST		0	Source: Broadcast Media
WARD COUNTY --- 0.8 SSW BERTHOLD [48.31, -101.74]				
	05/29/10 03:49 CST		0	Hail (0.88 in)
	05/29/10 03:55 CST		0	Source: Public
BOTTINEAU COUNTY --- BOTTINEAU [48.83, -100.43]				
	05/29/10 04:45 CST		75K	Thunderstorm Wind (EG 61 kt)
	05/29/10 04:55 CST		0	Source: Newspaper
Strong thunderstorm winds resulted in damage on the west side of Bottineau. Several grain bins were knocked over, one transmission tower was knocked down, and several trees sustained damage.				
MOUNTRAIL COUNTY --- 13.0 N BLAISDELL [48.52, -102.07]				
	05/29/10 05:30 CST		0	Thunderstorm Wind (EG 52 kt)
	05/29/10 05:32 CST		0	Source: Public
The report indicated that no damage was done.				
WARD COUNTY --- KENMARE [48.67, -102.08]				
	05/29/10 05:46 CST		0	Hail (1.00 in)
	05/29/10 05:53 CST		0	Source: Broadcast Media

An approaching upper level low, combined with substantial surface moisture on the northern edge of a developing nocturnal low level jet, resulted in the north-northeastward development of elevated thunderstorms from eastern Montana into portions of northwest and north central North Dakota during the early morning hours of Saturday, May 29th. Several reports of large hail were received along with one report of a severe thunderstorm wind gust. In addition, heavy rainfall also resulted in flash flooding conditions as the thunderstorms continued to develop and train over some locations.

Storm Data and Unusual Weather Phenomena - May 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
RENVILLE COUNTY --- 11.3 NNW TOLLEY [48.88, -101.92]				
	05/29/10 10:30 CST		0	Hail (1.00 in)
	05/29/10 10:35 CST		0	Source: Trained Spotter
RENVILLE COUNTY --- 1.5 WSW SHERWOOD [48.96, -101.65]				
	05/29/10 11:30 CST		0	Hail (1.75 in)
	05/29/10 11:38 CST		0	Source: Emergency Manager
WARD COUNTY --- 2.8 WNW COULEE [48.56, -102.08], 3.1 W KENMARE [48.68, -102.15], 2.9 ENE KENMARE [48.69, -102.02], 2.4 N COULEE [48.58, -102.02]				
	05/29/10 11:55 CST		20K	Flash Flood (due to Heavy Rain)
	05/29/10 13:55 CST		0	Source: Trained Spotter
Spotter reports indicated township roads being submerged from heavy runoff from thunderstorms.				
RENVILLE COUNTY --- 8.3 N TOLLEY [48.85, -101.80], 9.4 W SHERWOOD [48.99, -101.82], 7.6 E SHERWOOD [48.99, -101.45], 4.6 E LORAINE [48.88, -101.45]				
	05/29/10 14:00 CST		75K	Flash Flood (due to Heavy Rain)
	05/29/10 19:00 CST		0	Source: Emergency Manager
Numerous roadways in northeastern Renville County near Sherwood were submerged due to heavy thunderstorm rains. Tree and other debris were also reported on roads. Several roads were reported washed out or closed.				
MCINTOSH COUNTY --- 1.0 NNW ASHLEY [46.04, -99.38], 0.9 NNE ASHLEY [46.04, -99.36], 0.3 SE ASHLEY [46.03, -99.36], 0.6 WSW ASHLEY [46.03, -99.38]				
	05/29/10 20:45 CST		0.23M	Flash Flood (due to Heavy Rain)
	05/29/10 22:45 CST		0	Source: Emergency Manager

Heavy rainfall near two inches in less than one hour resulted in flash flood conditions in the city of Ashley. Many homes had water in their basements, resulting in severe carpet damage and other moisture related damages. Dollar amount is estimated based on reports from the McIntosh County Emergency Manager.

Thunderstorms redeveloped across portions of north central North Dakota along and ahead of a surface warm front from the late morning into the early evening hours of Saturday, May 29th. Two reports of large hail and several reports of flash flooding from heavy rainfall were received.

Additional severe thunderstorms were expected to develop later in the evening along a surface cold front across south central and southeastern North Dakota, but much of this activity remained south of North Dakota over central and eastern South Dakota. However, non-severe thunderstorms with very heavy rainfall did result in flash flood conditions across portions of McIntosh and Logan counties Saturday evening.