

Storm Data and Unusual Weather Phenomena - June 2009

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

(ND-Z017) MCKENZIE, (ND-Z018) DUNN, (ND-Z021) MCLEAN, (ND-Z031) GOLDEN VALLEY, (ND-Z032) BILLINGS, (ND-Z033) STARK, (ND-Z034) MORTON, (ND-Z035) BURLEIGH, (ND-Z041) HETTINGER, (ND-Z042) GRANT

06/06/09 03:00 CST	0	Winter Weather
06/06/09 10:00 CST	0	

Significant amounts of snow, for June, fell over the higher terrain of southwest North Dakota during the morning of June 6, 2009. The amount of snow was significant for the date, with amounts ranging from a trace at Bismarck, Flasher, and Dunn Center, to as much as four inches at Regent, in Hettinger County, and three inches at Hebron, Morton County.

Earlier in the week a cold front passed through the state and behind it cold high pressure built in at the surface. This was followed by a second cold front passing through on the fifth of the month, reinforcing the cold air. In addition, a mid level low was centered over Saskatchewan, Canada, keeping a cold northwest flow into North Dakota at the mid levels of the atmosphere. As a result, high temperatures in the 70s earlier in the week, were only in the 50s by the end of the week, and some sites had highs only in the 40s by the weekend of the sixth and seventh. The mid level low spun energy into the state with a quarter to a half inch of rain and melted snow resulting.



Snow in Belfield, Stark County, North Dakota, on June 6, 2009. The weight of the snow caused this tent to collapse. Photo by Julie Begger obtained from KFYP TV Bismarck.

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

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/15/09 16:22 MST		0	Hail (1.00 in)
	06/15/09 16:26 MST		0	Source: Emergency Manager
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SLOPE COUNTY --- 3.2 SW AMIDON [46.45, -103.37]				
	06/15/09 17:42 MST		0	Hail (1.00 in)
	06/15/09 17:47 MST		0	Source: Trained Spotter
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BURLEIGH COUNTY --- 0.8 SW STERLING [46.81, -100.29]				
	06/15/09 17:51 CST		0	Hail (1.00 in)
	06/15/09 17:56 CST		0	Source: Trained Spotter
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BURLEIGH COUNTY --- 6.2 SW WILTON [47.10, -100.89], 3.5 WNW BISMARCK [46.82, -100.84], 7.9 SSE (BIS)BISMARCK MUNI A [46.67, -100.72], 7.7 E MOFFIT [46.68, -100.12], 6.0 NNE ARENA [47.21, -100.11]				
	06/15/09 19:00 CST		1M	Flash Flood (due to Heavy Rain)
	06/15/09 23:00 CST		0	Source: Broadcast Media
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Thunderstorms with heavy rainfall continuously redeveloped in eastern Morton County and trained through Burleigh County for several hours during the evening of the 15th. Rainfall reports ranged from three to six inches in Bismarck, to 10.2 inches seven miles east of Bismarck. Flash flooding resulted from the heavy rainfall in Bismarck and points east, including water one to two feet deep flowing over Interstate 94 near Sterling at the peak of the event. Many homes had water in their basements. City streets in Bismarck were flooded and vehicles had water damage.				
The heavy rainfall also resulted in a flood warning for Apple Creek, which quickly rose to major flood stage by the morning of the 16th.				
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KIDDER COUNTY --- 15.7 N TUTTLE [47.37, -100.03], 5.8 WSW STEELE MUNI ARPT [46.80, -100.08], 3.6 SSW ROBINSON [47.10, -99.81], 16.5 N ROBINSON [47.39, -99.71]				
	06/15/09 19:00 CST		50K	Flash Flood (due to Heavy Rain)
	06/15/09 23:00 CST		0	Source: Broadcast Media
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Thunderstorms with heavy rainfall continuously moved through western Kidder County for several hours during the evening of the 15th. Doppler radar estimated rainfall amounts ranged from four to seven inches across the warned area. Water was reported to be a foot deep blocking passage over some roads.				
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MORTON COUNTY --- 4.0 N MANDAN [46.89, -100.90], 3.8 ENE MANDAN MUNI ARPT [46.79, -100.83], 2.5 NW MANDAN MUNI ARPT [46.79, -100.94], 4.1 NNW MANDAN [46.89, -100.93]				
	06/15/09 19:00 CST		1.80M	Flash Flood (due to Heavy Rain)
	06/15/09 23:00 CST		0	Source: Broadcast Media
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Thunderstorms with heavy rainfall continuously redeveloped across far eastern Morton County for several hours during the evening of the 15th. Public reports of three to four inches of rainfall were received in the city of Mandan along with street flooding. Some homes had water in their basements. A 30 foot by 40 foot section of roof collapsed at a bowling alley in Mandan. Newspaper reports were that the flat roof failed as a result of the added stress from the weight of the rain water. Two elementary schools in Mandan also had water damage. There were no injuries or deaths.				
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MORTON COUNTY --- 1.5 NNW MANDAN MUNI ARPT [46.79, -100.91]				
	06/15/09 19:38 CST		0	Hail (1.75 in)
	06/15/09 19:44 CST		0	Source: Public
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BURLEIGH COUNTY --- 0.5 W MENOKEN [46.82, -100.53]				
	06/15/09 20:10 CST		0	Hail (1.00 in)
	06/15/09 20:15 CST		0	Source: Trained Spotter
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BURLEIGH COUNTY --- 3.6 NE BISMARCK [46.84, -100.72]				
	06/15/09 21:27 CST		0	Heavy Rain
	06/15/09 21:27 CST		0	Source: Public
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A measured rainfall amount of 5.20 inches was reported.				
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BURLEIGH COUNTY --- 4.5 ESE (BIS)BISMARCK MUNI A [46.76, -100.66]				
	06/15/09 22:04 CST		0	Heavy Rain
	06/15/09 22:04 CST		0	Source: NWS Employee

A measured rainfall amount of 5.27 inches was reported.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MORTON COUNTY --- 0.5 E MANDAN [46.83, -100.89]				
	06/15/09 22:12 CST		0	Heavy Rain
	06/15/09 22:12 CST		0	Source: Trained Spotter
A measured rainfall amount of 4.00 inches was reported.				
BURLEIGH COUNTY --- 1.8 N BISMARCK [46.83, -100.77]				
	06/15/09 22:15 CST		0	Heavy Rain
	06/15/09 22:15 CST		0	Source: Broadcast Media
A measured rainfall amount of 2.56 inches was reported.				
BURLEIGH COUNTY --- 1.7 NE FT LINCOLN [46.84, -100.58]				
	06/15/09 23:15 CST		0	Heavy Rain
	06/15/09 23:15 CST		0	Source: Public
A measured rainfall amount of 7.20 inches was reported.				
BURLEIGH COUNTY --- 7.0 E BISMARCK [46.80, -100.62]				
	06/16/09 02:30 CST		0	Heavy Rain
	06/16/09 02:30 CST		0	Source: Public
A measured rainfall amount of 10.20 inches was reported.				
<p>An upper level low pressure system moving slowly across west and central North Dakota coincided with afternoon destabilization of the atmosphere to trigger scattered thunderstorms over the southwest and south central parts of the state. A few of these storms became severe during the evening hours with several reports of large hail. In addition, flash flooding from very heavy rainfall was reported over south central North Dakota, where storms redeveloped for several hours over the same general area.</p>				
SIoux COUNTY --- 4.3 SW FT YATES [46.04, -100.70], 4.3 SW FT YATES [46.04, -100.70]				
	06/16/09 11:00 MST		0	Tornado (EF0, L: 0.15 mi , W: 20 yd)
	06/16/09 11:04 MST		0	Source: Law Enforcement
A weak tornado briefly touched down in the open country of rural Sioux County. No structures were impacted and so no damage was reported.				
STARK COUNTY --- RICHARDTON [46.88, -102.32]				
	06/16/09 12:55 MST		0	Funnel Cloud
	06/16/09 12:58 MST		0	Source: Public
DUNN COUNTY --- 2.4 WNW DODGE [47.31, -102.25], 2.5 WNW DODGE [47.31, -102.25]				
	06/16/09 13:00 MST		0	Tornado (EF0, L: 0.11 mi , W: 20 yd)
	06/16/09 13:04 MST		0	Source: Public
A weak tornado briefly touched down in the open country of rural Dunn County. No structures were impacted and so no damage was reported.				
<p>Surface low pressure underneath a cold mid level vortex resulted in steep low level lapse rates and enhanced low level destabilization across southern North Dakota during the afternoon hours of the 16th. Tornado Watch 434 was issued early in the afternoon in anticipation of non-supercell tornadoes developing in the vicinity of the surface low. Two isolated tornadoes were reported during the afternoon along with one funnel cloud.</p>				
MOUNTRAIL COUNTY --- 12.5 N BLAISDELL [48.51, -102.09]				
	06/18/09 12:50 CST		0	Hail (0.75 in)
	06/18/09 13:00 CST		0	Source: Trained Spotter
DICKEY COUNTY --- 2.8 S MERRICOURT [46.16, -98.74]				
	06/18/09 15:00 CST		0	Thunderstorm Wind (EG 52 kt)
	06/18/09 15:05 CST		0	Source: Trained Spotter
The wind speed was estimated.				
LA MOURE COUNTY --- 5.3 E EDGELEY [46.36, -98.59]				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/18/09 15:20 CST		0	Thunderstorm Wind (EG 52 kt)
	06/18/09 15:25 CST		0	Source: Trained Spotter
The severe thunderstorm wind gust was accompanied by penny size hail.				
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LA MOURE COUNTY --- LA MOURE [46.35, -98.30]				
	06/18/09 15:25 CST		25K	Thunderstorm Wind (EG 61 kt)
	06/18/09 15:35 CST		0	Source: Newspaper
Severe thunderstorm wind gusts blew down several large trees in the city of LaMoure, knocking out power to several homes.				
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DICKEY COUNTY --- 2.1 SSW OAKES MUNI ARPT [46.07, -98.09]				
	06/18/09 15:40 CST		0	Funnel Cloud
	06/18/09 15:43 CST		0	Source: Law Enforcement
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BOTTINEAU COUNTY --- 5.0 SSE ROTH [48.89, -100.54]				
	06/18/09 15:45 CST		0	Hail (0.75 in)
	06/18/09 15:50 CST		0	Source: Trained Spotter
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BOTTINEAU COUNTY --- 5.0 SSE ROTH [48.89, -100.54]				
	06/18/09 16:20 CST		0	Thunderstorm Wind (EG 52 kt)
	06/18/09 16:25 CST		0	Source: Trained Spotter
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BOTTINEAU COUNTY --- 6.6 NE BOTTINEAU ARPT [48.91, -100.33], 4.5 NE OMEMEE [48.75, -100.28], 5.4 NNE OVERLY [48.75, -100.11], 13.5 ENE BOTTINEAU ARPT [48.91, -100.15]				
	06/18/09 19:00 CST		10K	Flash Flood (due to Heavy Rain)
	06/18/09 22:00 CST		0	Source: Law Enforcement
Rainfall amounts ranging from three to four inches in one hour resulted in flash flooding over far eastern Bottineau County. Water was reported over Highway Five west of Dunseith, and was closed for several hours. A few county roads were closed due to high water and minor repairs were needed.				
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ROLETTE COUNTY --- 6.5 WNW DUNSEITH [48.86, -100.18], 16.0 SW THORNE [48.55, -100.15], 1.9 SW NANSON [48.56, -99.80], 7.7 ENE SAN HAVEN [48.88, -99.88]				
	06/18/09 19:00 CST		10K	Flash Flood (due to Heavy Rain)
	06/18/09 22:00 CST		0	Source: Law Enforcement
Rainfall amounts ranging from three to four inches in one hour resulted in flash flooding over western Rolette County. Water was reported over Highway Five west of Dunseith, and was closed for several hours. The flash flooding occurred in a rural area and there were no reports of flooded structures.				
<p>In the early afternoon of June 18th, Severe Thunderstorm Watch 465 was issued due to thunderstorms developing, and expected to be severe, in the vicinity of an approaching upper level low pressure system. Multiple severe thunderstorm warnings were issued. Several reports of large hail and severe thunderstorm wind gusts were received during the afternoon hours. In addition, flash flooding from very heavy rainfall was reported over far north central North Dakota, where slow moving thunderstorms produced rainfall amounts of up to four inches in one hour.</p>				
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WILLIAMS COUNTY --- 0.7 S RAY [48.34, -103.17]				
	06/21/09 18:41 CST		0	Hail (0.88 in)
	06/21/09 18:51 CST		0	Source: Trained Spotter
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WILLIAMS COUNTY --- 0.7 S RAY [48.34, -103.17]				
	06/21/09 18:45 CST		0	Hail (0.88 in)
	06/21/09 18:50 CST		0	Source: Fire Department/Rescue
Hail was accompanied by 2.10 inches of rainfall and 45 to 50 mph wind gusts.				
An isolated thunderstorm produced two reports of nickel size hail over northwest North Dakota.				
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ADAMS COUNTY --- 0.5 W HETTINGER [46.00, -102.64]				
	06/22/09 14:09 MST		0	Thunderstorm Wind (MG 57 kt)
	06/22/09 14:14 MST		0	Source: ASOS

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MCLEAN COUNTY --- 10.6 SSW RAUB [47.60, -102.10]				
	06/22/09 14:50 CST		0	Hail (0.88 in)
	06/22/09 14:56 CST		0	Source: Public
MCLEAN COUNTY --- 10.6 SSW RAUB [47.60, -102.10]				
	06/22/09 14:50 CST		0	Thunderstorm Wind (EG 61 kt)
	06/22/09 14:56 CST		0	Source: Public
Severe thunderstorm wind gusts were accompanied by nickel size hail.				
OLIVER COUNTY --- 2.8 N CENTER [47.16, -101.30]				
	06/22/09 16:15 CST		0	Thunderstorm Wind (EG 56 kt)
	06/22/09 16:20 CST		0	Source: Trained Spotter
Severe thunderstorm wind gusts were accompanied by dime size hail.				
WARD COUNTY --- 0.8 SSE (MIB)MINOT AFB [48.42, -101.36]				
	06/22/09 16:31 CST		15K	Thunderstorm Wind (EG 56 kt)
	06/22/09 16:36 CST		0	Source: Other Federal Agency
Severe thunderstorm winds resulted in the collapse of a cement and aluminum bus stop housing 10 to 12 feet in height at the Minot Air Force Base.				
OLIVER COUNTY --- 2.8 S SANGER [47.14, -101.00]				
	06/22/09 16:39 CST		12K	Thunderstorm Wind (EG 65 kt)
	06/22/09 16:44 CST		0	Source: Trained Spotter
Several large trees 15 inches in diameter were reported blown down.				
BURLEIGH COUNTY --- 8.6 NW BISMARCK [46.90, -100.87]				
	06/22/09 17:40 CST		17K	Thunderstorm Wind (EG 61 kt)
	06/22/09 17:45 CST		0	Source: Amateur Radio
A camper was blown over at a camp site eight miles north-northwest of Bismarck.				
EMMONS COUNTY --- LINTON [46.27, -100.23]				
	06/22/09 18:25 CST		0	Hail (1.00 in)
	06/22/09 18:29 CST		0	Source: Public

In the mid afternoon of June 22nd, Severe Thunderstorm Watch 492 was issued due to anticipated thunderstorm development and intensification over western and central North Dakota, ahead of a strong shortwave trough and an associated surface cold front moving into the area. Multiple severe thunderstorm warnings and several tornado warnings were issued. Two reports of large hail and several reports of severe thunderstorm wind gusts were received during the afternoon and early evening hours.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Photo by Harm/Vega families from Mandan, ND.

SLOPE COUNTY --- 11.9 SE AMIDON [46.36, -103.14]

06/24/09 06:11 MST	0		Hail (1.00 in)
06/24/09 06:15 MST	0		Source: Trained Spotter

SLOPE COUNTY --- 9.7 S AMIDON [46.34, -103.32]

06/24/09 06:45 MST	0		Hail (0.75 in)
06/24/09 06:48 MST	0		Source: Trained Spotter

HETTINGER COUNTY --- 9.9 SW REGENT [46.32, -102.70]

06/24/09 07:15 MST	0		Hail (0.75 in)
06/24/09 07:19 MST	0		Source: Trained Spotter

HETTINGER COUNTY --- 2.8 S BENTLEY [46.29, -102.06]

06/24/09 07:50 MST	0		Hail (0.88 in)
06/24/09 07:53 MST	0		Source: Trained Spotter

The nose of a nocturnal low level jet triggered thunderstorm development across southwestern North Dakota around sunrise on the 24th. Several reports of large hail were received.

MCKENZIE COUNTY --- 0.8 SE ALEXANDER [47.84, -103.64]

Storm Data and Unusual Weather Phenomena - June 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/24/09 14:40 MST		0	Hail (0.75 in)
	06/24/09 14:44 MST		0	Source: Trained Spotter
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MCKENZIE COUNTY --- 13.8 S WATFORD CITY [47.60, -103.28]	06/24/09 15:00 MST		0	Hail (0.75 in)
	06/24/09 15:04 MST		0	Source: COOP Observer
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MCKENZIE COUNTY --- 12.8 SSE WATFORD CITY [47.64, -103.14]	06/24/09 15:21 MST		0	Thunderstorm Wind (EG 52 kt)
	06/24/09 15:25 MST		0	Source: Trained Spotter
Thunderstorm winds were accompanied by large hail.				
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MCKENZIE COUNTY --- 6.6 NE GRASSY BUTTE [47.46, -103.14]	06/24/09 15:21 MST		0	Hail (1.25 in)
	06/24/09 15:25 MST		0	Source: Trained Spotter
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MCKENZIE COUNTY --- 0.7 N GRASSY BUTTE [47.41, -103.25]	06/24/09 15:30 MST		0	Thunderstorm Wind (EG 52 kt)
	06/24/09 15:36 MST		0	Source: Trained Spotter
Thunderstorm winds were accompanied by large hail.				
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MCKENZIE COUNTY --- 0.7 N GRASSY BUTTE [47.41, -103.25]	06/24/09 15:30 MST		0	Hail (1.00 in)
	06/24/09 15:37 MST		0	Source: Trained Spotter
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STARK COUNTY --- 0.7 N BELFIELD [46.89, -103.20]	06/24/09 16:15 MST		50K	Hail (1.75 in)
	06/24/09 16:21 MST		0	Source: Public
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RENVILLE COUNTY --- 4.9 N TOLLEY [48.80, -101.83]	06/24/09 16:20 CST		0	Hail (1.00 in)
	06/24/09 16:24 CST		0	Source: Trained Spotter
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STARK COUNTY --- 9.8 SSW SOUTH HEART [46.73, -103.04]	06/24/09 16:20 MST		0	Hail (2.00 in)
	06/24/09 16:25 MST		0	Source: SHAVE Project
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STARK COUNTY --- 2.8 S BELFIELD [46.84, -103.20]	06/24/09 16:25 MST		0	Hail (1.75 in)
	06/24/09 16:31 MST		0	Source: Trained Spotter
A trained spotter reported a rotating wall cloud in addition to the hail.				
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STARK COUNTY --- 5.0 S BELFIELD [46.81, -103.20], 11.6 SSE BELFIELD [46.72, -103.14]	06/24/09 16:28 MST		0.70M	Tornado (EF1, L: 6.83 mi , W: 80 yd)
	06/24/09 16:45 MST		40K	Source: Newspaper
The same supercell thunderstorm that produced this EF1 tornado from 1628 MST to 1645 MST produced another tornado, an EF0, from 1703 MST to 1738 MST as it moved southeast. The first tornado, the EF1, was in Stark County, while the second, the EF0, started in Stark County and crossed into Hettinger County.				
The Stark County tornado touched down about five miles south of Belfield and crossed U.S. Highway 85 as it moved southeast. It lifted nearly 12 miles south-southeast of Belfield after doing significant damage on a farm about 10 miles south-southeast of Belfield. There was no other damage reported outside of that one farm. Four structures were damaged or destroyed and several farm animals were killed. Only minor damage was done to the farm house. In addition to buildings, fences and vehicles were also damaged or destroyed. The damage corresponded to high end EF1 on the Enhanced Fujita Tornado Scale. From that it was determined that wind speeds were around 105 mph. There were no deaths or injuries.				
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STARK COUNTY --- 7.9 SSE BELFIELD [46.78, -103.13]				

Storm Data and Unusual Weather Phenomena - June 2009

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	06/24/09 16:35 MST		0	Hail (1.75 in)
	06/24/09 16:40 MST		0	Source: SHAVE Project
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DUNN COUNTY --- 4.2 W KILLDEER [47.37, -102.86]				
	06/24/09 16:38 MST		0	Hail (1.00 in)
	06/24/09 16:43 MST		0	Source: Law Enforcement
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DUNN COUNTY --- 2.3 SSE KILLDEER [47.34, -102.75]				
	06/24/09 16:49 MST		0	Hail (1.00 in)
	06/24/09 16:54 MST		0	Source: Trained Spotter
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HETTINGER COUNTY --- 10.6 N NEW ENGLAND [46.68, -102.85]				
	06/24/09 17:00 MST		15K	Hail (2.00 in)
	06/24/09 17:09 MST		0	Source: SHAVE Project
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The large hail broke windows on a home.				
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STARK COUNTY --- 9.9 SW (DIK)DICKINSON MUNI [46.70, -102.95]				
	06/24/09 17:00 MST		0	Hail (2.00 in)
	06/24/09 17:10 MST		0	Source: SHAVE Project
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STARK COUNTY --- 11.4 SSW (DIK)DICKINSON MUNI [46.65, -102.90], 12.5 SSW (DIK)DICKINSON MUNI [46.63, -102.89]				
	06/24/09 17:03 MST		25K	Tornado (EF0, L: 1.46 mi , W: 50 yd)
	06/24/09 17:07 MST		0	Source: Newspaper
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This tornado touched down in Stark County and crossed into Hettinger County. See the tornado entry for Hettinger County 1707 MST to 1738 MST.				
The same supercell thunderstorm that produced this EF0 tornado produced an EF1 tornado in Stark County earlier in the day. See the tornado entry 1628 MST to 1645 MST for Stark County.				
The tornado touched down about three miles southwest of Scheffield, Stark County. This touchdown location is about seven miles north-northwest of the Hettinger County city of New England. It moved southeast and crossed into Hettinger County and lifted about eight miles west-northwest of Regent, after doing damage to several farms. Several medium to large trees were uprooted and there was window and roof damage to buildings. The damage corresponded to high end EF0 on the Enhanced Fujita Tornado Scale. From that it was determined that wind speeds were around 85 mph. There were no deaths or injuries.				
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HETTINGER COUNTY --- 7.2 NNW NEW ENGLAND [46.63, -102.89], 5.0 NNW REGENT [46.49, -102.59]				
	06/24/09 17:07 MST		50K	Tornado (EF0, L: 17.34 mi , W: 50 yd)
	06/24/09 17:38 MST		0	Source: Newspaper
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This tornado touched down in Stark County and crossed into Hettinger County. See the tornado entry for Stark County 1703 MST to 1707 MST.				
The same supercell thunderstorm that produced this EF0 tornado produced an EF1 tornado in Stark County earlier in the day. See the tornado entry 1628 MST to 1645 MST for Stark County.				
The tornado touched down in Stark County about seven miles north-northwest of the Hettinger County city of New England. It moved southeast and crossed into Hettinger County and lifted about eight miles west-northwest of Regent, after doing damage to several farms. Several medium to large trees were uprooted and there was window and roof damage to buildings. The damage corresponded to high end EF0 on the Enhanced Fujita Tornado Scale. From that it was determined that wind speeds were around 85 mph. There were no deaths or injuries.				
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STARK COUNTY --- 4.3 SW (DIK)DICKINSON MUNI [46.76, -102.87]				
	06/24/09 17:15 MST		0	Hail (1.25 in)
	06/24/09 17:18 MST		0	Source: Public
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ADAMS COUNTY --- 0.5 W HETTINGER [46.00, -102.64]				
	06/24/09 17:30 MST		0	Funnel Cloud
	06/24/09 17:33 MST		0	Source: Law Enforcement
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ADAMS COUNTY --- 0.5 W HETTINGER [46.00, -102.64]				
	06/24/09 17:30 MST		50K	Hail (1.75 in)
	06/24/09 17:37 MST		0	Source: Fire Department/Rescue

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Quarter to golf ball size hail fell for several minutes over Hettinger.

A mid level short wave impulse and a surface frontal boundary acted together to trigger late afternoon and early evening thunderstorms over western and north central North Dakota on June 24th. The most intense storms developed across southwest North Dakota where the strongest low level wind shear and moisture pooling were collocated. One of the longer tracked supercell storms spawned two distinct and separate tornadoes. One of those resulted in EF1 tornado damage on a farm. Numerous reports of severe hail and two reports of severe thunderstorm wind gusts were received in addition to tornado and funnel cloud reports.



Photo of the June 24, 2009 Stark County tornado taken when it was about 10 miles south-southeast of Belfield, North Dakota. Photo by Ron Decker and obtained by NWS through KFYP TV.

WILLIAMS COUNTY --- 10.3 SSE WHEELOCK [48.16, -103.17]

06/26/09 00:55 CST	0	Hail (0.88 in)
06/26/09 00:58 CST	0	Source: Broadcast Media

An isolated thunderstorm developed during the early morning hours of June 26th over northwest North Dakota. One report of large hail was received.

HETTINGER COUNTY --- 2.4 W REGENT [46.42, -102.60]

06/26/09 13:04 MST	0	Hail (1.25 in)
06/26/09 13:14 MST	0	Source: Public

Hail up to the size of half dollar coins lasted ten minutes.

SLOPE COUNTY --- 16.3 ENE AMIDON [46.58, -103.01]

Storm Data and Unusual Weather Phenomena - June 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/26/09 14:55 MST		0	Heavy Rain
	06/26/09 15:15 MST		0	Source: Trained Spotter
A thunderstorm produced 1.40 inches of rainfall in 20 minutes.				
HETTINGER COUNTY --- 1.2 NW NEW ENGLAND [46.54, -102.87]				
	06/26/09 15:15 MST		0	Thunderstorm Wind (EG 52 kt)
	06/26/09 15:20 MST		0	Source: COOP Observer
Strong thunderstorm winds were accompanied by heavy rain.				
PIERCE COUNTY --- 10.8 W SELZ [47.87, -100.11]				
	06/26/09 16:15 CST		0	Hail (1.25 in)
	06/26/09 16:20 CST		0	Source: Trained Spotter
MCLEAN COUNTY --- 3.9 SE RIVERDALE [47.46, -101.31]				
	06/26/09 16:55 CST		0	Hail (1.00 in)
	06/26/09 17:00 CST		0	Source: Trained Spotter
Very heavy rain accompanied the large hail.				
MCLEAN COUNTY --- 5.5 S RIVERDALE [47.42, -101.37]				
	06/26/09 17:00 CST		0	Hail (0.88 in)
	06/26/09 17:05 CST		0	Source: Trained Spotter
MCLEAN COUNTY --- GARRISON [47.65, -101.42]				
	06/26/09 17:39 CST		0	Thunderstorm Wind (MG 55 kt)
	06/26/09 17:44 CST		0	Source: ASOS
MCLEAN COUNTY --- 6.0 ESE UNDERWOOD [47.42, -101.01], 6.5 ESE UNDERWOOD [47.41, -101.00]				
	06/26/09 17:43 CST		0	Tornado (EF0, L: 0.50 mi , W: 20 yd)
	06/26/09 17:46 CST		0	Source: Public
A brief tornado touchdown occurred in open country. The tornado impacted no structures and so no damage was done.				
MCLEAN COUNTY --- 0.9 W UNDERWOOD [47.45, -101.15]				
	06/26/09 17:45 CST		0	Hail (1.75 in)
	06/26/09 17:50 CST		0	Source: Fire Department/Rescue
MCLEAN COUNTY --- 1.4 W MERCER [47.48, -100.75], 1.3 W MERCER [47.48, -100.75]				
	06/26/09 18:10 CST		0	Tornado (EF0, L: 0.10 mi , W: 20 yd)
	06/26/09 18:11 CST		0	Source: Public
A tornado briefly touched down in open country. The tornado impacted no structures and so no damage was done.				
MCLEAN COUNTY --- 4.2 W MERCER [47.48, -100.81]				
	06/26/09 18:10 CST		0	Hail (1.00 in)
	06/26/09 18:15 CST		0	Source: Trained Spotter
MORTON COUNTY --- 5.6 SSE GLEN ULLIN [46.75, -101.77]				
	06/26/09 18:10 CST		0	Thunderstorm Wind (EG 52 kt)
	06/26/09 18:15 CST		0	Source: Trained Spotter
A trained spotter reported strong thunderstorm winds and heavy rainfall.				
MCLEAN COUNTY --- 0.8 NE MERCER [47.49, -100.71]				
	06/26/09 18:20 CST		0	Hail (1.00 in)
	06/26/09 18:24 CST		0	Source: Trained Spotter
MCLEAN COUNTY --- 4.2 W MERCER [47.48, -100.81]				

Storm Data and Unusual Weather Phenomena - June 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/26/09 18:25 CST		0	Hail (1.00 in)
	06/26/09 18:30 CST		0	Source: Trained Spotter
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MCLEAN COUNTY --- 2.8 SW GARRISON MUNI ARPT [47.60, -101.42]				
	06/26/09 18:35 CST		0	Thunderstorm Wind (EG 52 kt)
	06/26/09 18:40 CST		0	Source: Trained Spotter
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A trained spotter reported strong thunderstorm wind gusts and heavy rainfall.				
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MCLEAN COUNTY --- 4.2 W MERCER [47.48, -100.81]				
	06/26/09 18:45 CST		0	Hail (1.00 in)
	06/26/09 18:49 CST		0	Source: Trained Spotter
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MCLEAN COUNTY --- GARRISON [47.65, -101.42]				
	06/26/09 18:45 CST		4K	Thunderstorm Wind (EG 61 kt)
	06/26/09 18:50 CST		0	Source: Public
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An estimated thunderstorm wind gust of 70 mph was reported by the public. Large tree branches were broken.				
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MCLEAN COUNTY --- 5.6 W TURTLE LAKE [47.52, -101.02]				
	06/26/09 18:48 CST		45K	Hail (2.75 in)
	06/26/09 18:53 CST		0	Source: Newspaper
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Residents of rural Turtle Lake reported window damage to homes and vehicles from the large hail.				
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MORTON COUNTY --- 1.4 W SWEET BRIAR [46.83, -101.21]				
	06/26/09 18:50 CST		0	Funnel Cloud
	06/26/09 18:52 CST		0	Source: Public
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MORTON COUNTY --- 5.7 E SWEET BRIAR [46.83, -101.06]				
	06/26/09 19:05 CST		0	Thunderstorm Wind (EG 52 kt)
	06/26/09 19:10 CST		0	Source: Trained Spotter
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A trained spotter reported a strong thunderstorm wind gust.				
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BURLEIGH COUNTY --- (BIS)BISMARCK MUNI A [46.78, -100.75], 2.8 SW BISMARCK [46.78, -100.82], 3.7 NW BISMARCK [46.84, -100.82], 5.1 NNE BISMARCK [46.87, -100.72]				
	06/26/09 20:00 CST		25K	Flash Flood (due to Heavy Rain)
	06/26/09 23:00 CST		0	Source: Newspaper
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One to three inches of rain fell over the Bismarck area in 45 minutes. The heaviest rainfall occurred across northern sections of the city. This resulted in widespread street flooding and overturned manhole covers. A few homes suffered water damage to basements.				
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BURLEIGH COUNTY --- 3.1 NE (BIS)BISMARCK MUNI A [46.81, -100.70]				
	06/26/09 21:22 CST		0	Heavy Rain
	06/26/09 21:22 CST		0	Source: Public
<hr/>				
A public report of 3.6 inches of rain was received.				
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<p>In the early afternoon of June 26th, Severe Thunderstorm Watch 518 was issued in anticipation of severe thunderstorms developing and intensifying along and ahead of a surface boundary across western South Dakota and central North Dakota, and ahead of a series of upper level vorticity maxima advancing northeast into North Dakota. Tornado watch 522 was then issued in the early evening and replaced eastern portions of Severe Thunderstorm Watch 518. This upgrade was due to discrete supercells developing along a warm front where enhanced ascent and strong low level wind shear coincided.</p>				
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<p>Multiple tornado and several severe thunderstorm warnings were issued. Multiple reports of large hail, several reports of severe thunderstorm wind gusts, and two confirmed tornado reports were received from the mid afternoon hours through the mid evening hours. In addition, very heavy rainfall over north central and south central North Dakota prompted the issuance of several flash flood warnings.</p>				
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SIOUX COUNTY --- 24.9 W SELFRIDGE [46.04, -101.45]				

Storm Data and Unusual Weather Phenomena - June 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/27/09 12:00 MST		0	Hail (0.88 in)
	06/27/09 12:04 MST		0	Source: Trained Spotter
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SIOUX COUNTY --- 11.5 WNW SELFRIDGE [46.11, -101.14]				
	06/27/09 13:20 MST		0	Hail (0.88 in)
	06/27/09 13:25 MST		0	Source: Trained Spotter
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MCHENRY COUNTY --- 6.1 ENE MILROY [48.45, -100.40]				
	06/27/09 13:45 CST		0	Hail (1.00 in)
	06/27/09 13:50 CST		0	Source: Public
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ROLETTE COUNTY --- 5.6 S ROLLA [48.77, -99.62]				
	06/27/09 14:40 CST		0	Hail (0.75 in)
	06/27/09 14:46 CST		0	Source: Trained Spotter
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<p>In the early afternoon of June 27th, Severe Thunderstorm Watch 525 was issued in anticipation of strong to severe thunderstorms developing and intensifying across the state in the vicinity of an upper level low, which was resulting in cooling temperatures aloft and steep lapse rates. Several reports of large hail were received during the afternoon hours.</p>				
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MCKENZIE COUNTY --- 4.8 ENE FAIRVIEW [47.87, -103.93]				
	06/30/09 16:30 MST		0	Thunderstorm Wind (EG 52 kt)
	06/30/09 16:35 MST		0	Source: Trained Spotter
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<p>A trained spotter reported an estimated severe thunderstorm wind gust of 60 mph.</p>				
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GOLDEN VALLEY COUNTY --- 4.9 S GOLVA [46.66, -104.00]				
	06/30/09 17:15 MST		0	Hail (2.00 in)
	06/30/09 17:20 MST		0	Source: Public
<hr/>				
SLOPE COUNTY --- 16.1 N MARMARTH [46.53, -103.96]				
	06/30/09 18:15 MST		0	Funnel Cloud
	06/30/09 18:15 MST		0	Source: Broadcast Media
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SLOPE COUNTY --- 1.7 NE MARMARTH [46.32, -103.88]				
	06/30/09 18:30 MST		0	Funnel Cloud
	06/30/09 18:30 MST		0	Source: Storm Chaser
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SLOPE COUNTY --- 7.0 WNW MARMARTH [46.33, -104.04]				
	06/30/09 18:30 MST		0	Funnel Cloud
	06/30/09 18:30 MST		0	Source: Storm Chaser
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SLOPE COUNTY --- 1.2 SW MARMARTH [46.29, -103.92]				
	06/30/09 18:35 MST		0	Thunderstorm Wind (EG 52 kt)
	06/30/09 18:40 MST		0	Source: Trained Spotter
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<p>Small pea sized hail accompanied the strong thunderstorm winds.</p>				
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BOWMAN COUNTY --- RHAME [46.23, -103.65]				
	06/30/09 19:15 MST		0	Hail (1.00 in)
	06/30/09 19:20 MST		0	Source: Trained Spotter
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BOWMAN COUNTY --- RHAME [46.23, -103.65]				
	06/30/09 19:15 MST		0	Thunderstorm Wind (EG 52 kt)
	06/30/09 19:20 MST		0	Source: Trained Spotter
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<p>Quarter sized hail accompanied the strong thunderstorm winds.</p>				
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BOWMAN COUNTY --- 4.9 S BOWMAN [46.11, -103.39]				

Storm Data and Unusual Weather Phenomena - June 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/30/09 19:36 MST		0	Thunderstorm Wind (MG 52 kt)
	06/30/09 19:41 MST		0	Source: Mesonet

In the mid afternoon of June 30th, Severe Thunderstorm Watch 535 was issued in anticipation of severe thunderstorms developing across western North Dakota in the vicinity of a surface trough of low pressure. Two reports of large hail, several reports of severe thunderstorm wind gusts, and three funnel cloud reports were received during the evening hours.