

## Storm Data and Unusual Weather Phenomena - July 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>NORTH DAKOTA, Central and West</b>				
<b>WILLIAMS COUNTY --- 4.2 WSW (ISN)SLOULIN FLD WIL [48.15, -103.73]</b>				
	07/03/09 20:13 CST		2K	Thunderstorm Wind (EG 52 kt)
	07/03/09 20:18 CST		0	Source: Law Enforcement
A severe thunderstorm wind gust resulted in a tree falling onto a power line, causing the power line to snap.				
<b>WILLIAMS COUNTY --- 0.5 E SPRING BROOK [48.25, -103.46]</b>				
	07/03/09 20:40 CST		5K	Thunderstorm Wind (EG 56 kt)
	07/03/09 20:45 CST		0	Source: NWS Employee
Severe thunderstorm wind gusts resulted in leaning power poles and six to eight inch in diameter tree branches down.				
<b>Severe thunderstorm wind gusts were reported over Williams County in northwest North Dakota during the evening of July 3rd. No other severe weather reports were received.</b>				
<b>SHERIDAN COUNTY --- 5.1 SE MCCLUSKY [47.43, -100.37]</b>				
	07/04/09 14:30 CST		0	Funnel Cloud
	07/04/09 14:30 CST		0	Source: Trained Spotter
<b>BURLEIGH COUNTY --- 4.3 WNW WING [47.16, -100.36]</b>				
	07/04/09 15:15 CST		0	Funnel Cloud
	07/04/09 15:15 CST		0	Source: Public
<b>BURLEIGH COUNTY --- 1.2 NW WING [47.14, -100.30]</b>				
	07/04/09 15:18 CST		0	Funnel Cloud
	07/04/09 15:18 CST		0	Source: Public
<b>BURLEIGH COUNTY --- 0.7 N WING [47.14, -100.28]</b>				
	07/04/09 15:23 CST		0	Funnel Cloud
	07/04/09 15:23 CST		0	Source: Law Enforcement
<b>BURLEIGH COUNTY --- 2.8 N BISMARCK [46.84, -100.78]</b>				
	07/04/09 15:38 CST		0	Funnel Cloud
	07/04/09 15:38 CST		0	Source: Broadcast Media
<b>Strong thunderstorms developed across central North Dakota during the afternoon hours of July 4th. Several funnel cloud reports were received with these storms. None of the funnels touched down and there were no other reports of severe weather.</b>				
<b>BILLINGS COUNTY --- 0.5 W SULLY SPGS [46.87, -103.41]</b>				
	07/05/09 15:36 MST		0	Hail (0.88 in)
	07/05/09 15:41 MST		0	Source: Law Enforcement
<b>SLOPE COUNTY --- 18.0 WNW AMIDON [46.58, -103.67]</b>				
	07/05/09 15:50 MST		1K	Thunderstorm Wind (EG 52 kt)
	07/05/09 15:55 MST		0	Source: Public
Severe thunderstorm winds resulted in four inch in diameter tree limbs down, as well as a round metal picnic table being turned over and damaged.				
<b>STARK COUNTY --- 2.0 SW BELFIELD [46.86, -103.23]</b>				
	07/05/09 15:55 MST		0	Thunderstorm Wind (EG 52 kt)
	07/05/09 16:10 MST		0	Source: Trained Spotter
A trained spotter reported this severe thunderstorm wind gust.				
<b>Scattered thunderstorms developed in the late afternoon hours of July 5th over southwestern North Dakota. One report of large hail and two reports of severe thunderstorm winds were received.</b>				
<b>STARK COUNTY --- RICHARDTON [46.88, -102.32]</b>				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/07/09 18:00 MST		3.50K	Lightning
	07/07/09 18:00 MST		0	Source: Newspaper

Two separate lightning strikes ignited hay bales near Richardton and Gladstone in Stark County. Eighty bales of hay were lost near Richardton, and one bale of hay was lost near Gladstone.

**Scattered thunderstorms over southwest North Dakota resulted in two separate reported damaging lightning strikes during the evening hours of July 7th. Multiple hay bales were burned resulting in several thousand dollars in damage.**

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### WILLIAMS COUNTY --- 4.0 WSW WILLISTON [48.13, -103.70]

07/08/09 10:20 CST	10K	Thunderstorm Wind (EG 56 kt)
07/08/09 10:30 CST	0	Source: Newspaper

A severe thunderstorm wind gust resulted in the destruction of a storage pole barn.

**A severe thunderstorm produced damaging winds over southwest Williams County in northwest North Dakota during the late morning hours of July 8th. One structure was destroyed due to the high winds.**

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### DIVIDE COUNTY --- FORTUNA [48.92, -103.70]

07/08/09 16:31 CST	0	Hail (1.00 in)
07/08/09 16:40 CST	0	Source: Trained Spotter

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### DIVIDE COUNTY --- 3.0 E FORTUNA [48.92, -103.63]

07/08/09 16:45 CST	3K	Hail (1.50 in)
07/08/09 16:53 CST	0	Source: Public

A vehicle was dented.

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### GOLDEN VALLEY COUNTY --- 9.6 NE SENTINEL BUTTE [47.02, -103.69], 10.0 NE SENTINEL BUTTE [47.02, -103.68]

07/08/09 17:05 MST	0	Tornado (EF0, L: 0.50 mi , W: 30 yd)
07/08/09 17:10 MST	0	Source: Fire Department/Rescue

A brief tornado occurred. The tornado touched down in open country and impacted no structures. There were no reports of damage.

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### SLOPE COUNTY --- 6.2 E MARMARTH [46.31, -103.77]

07/08/09 17:24 MST	0	Funnel Cloud
07/08/09 17:28 MST	0	Source: Emergency Manager

Emergency management reported this funnel cloud.

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### BILLINGS COUNTY --- 3.4 NNE MEDORA [46.97, -103.50], 3.5 NNE MEDORA [46.97, -103.50]

07/08/09 17:27 MST	0	Tornado (EF0, L: 0.10 mi , W: 40 yd)
07/08/09 17:30 MST	0	Source: Law Enforcement

A brief tornado touchdown was reported. No reports of damage or injuries were received.

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### BURKE COUNTY --- 5.0 W PORTAL [49.00, -102.66], 4.7 E PORTAL [48.99, -102.45]

07/08/09 18:15 CST	0.19M	Tornado (EF1, L: 9.67 mi , W: 80 yd)
07/08/09 18:40 CST	50K	Source: Fire Department/Rescue

A tornado was reported west of Portal near the Canadian border where it blew out the windows of two vehicles and blew the vehicles into the ditch. The tornado continued east-southeast towards the southern side of the town of Portal, uprooting 12 inch in diameter trees, snapping several power poles, and destroying an old oak barn. The tornado then continued east of Portal, uprooting several more large trees, downing more power lines, and destroying a granary, before dissipating. The damage corresponded to low end EF1 on the Enhanced Fujita Tornado Scale. From that it was determined that wind speeds were around 90 mph. No injuries and no deaths were reported.

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### BOWMAN COUNTY --- 1.3 N RHAME [46.25, -103.65], 2.0 NNE RHAME [46.26, -103.63]

07/08/09 18:45 MST	0	Tornado (EF0, L: 0.97 mi , W: 30 yd)
07/08/09 18:50 MST	0	Source: Newspaper

A newspaper article mentioned a brief tornado near Rhame. There was no mention of damage. Follow up with law enforcement also indicated that no damage was done.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>BOWMAN COUNTY --- RHAME [46.23, -103.65]</b>				
	07/08/09 18:45 MST		0	Hail (1.00 in)
	07/08/09 18:50 MST		0	Source: Emergency Manager
<b>GOLDEN VALLEY COUNTY --- 11.6 SE GOLVA [46.61, -103.81]</b>				
	07/08/09 18:45 MST		0	Hail (1.75 in)
	07/08/09 18:53 MST		0	Source: Public
No damage was reported.				
<b>BOWMAN COUNTY --- BOWMAN ARPT [46.18, -103.42], 7.0 NNW BUFFALO SPGS [46.26, -103.29]</b>				
	07/08/09 19:02 MST		15K	Hail (1.75 in)
	07/08/09 19:20 MST		20K	Source: Newspaper
Hail in this swath ranged from one inch diameter to 1.75 inch diameter. The largest stones fell about five miles north of Bowman and about 6.5 miles north-northwest of Buffalo Springs. There was minor crop and property damage.				
<b>BURKE COUNTY --- 0.2 S PORTAL [49.00, -102.55]</b>				
	07/08/09 19:07 CST		0	Hail (1.00 in)
	07/08/09 19:12 CST		0	Source: Trained Spotter
<b>BURKE COUNTY --- 0.7 NNE NORTHGATE [48.99, -102.26], 2.0 SW FLAXTON [48.88, -102.41]</b>				
	07/08/09 19:10 CST		55K	Thunderstorm Wind (EG 61 kt)
	07/08/09 19:20 CST		0	Source: Law Enforcement
Power lines and small trees were downed due to strong thunderstorm wind gusts. Several empty oil storage tanks were also damaged. Power was out to the local area near Northgate. Three tornadoes also touched down in Burke County this day. See the entries for those three tornadoes as well.				
<b>STARK COUNTY --- 1.0 W DICKINSON [46.88, -102.80]</b>				
	07/08/09 19:15 MST		45K	Thunderstorm Wind (EG 70 kt)
	07/08/09 19:20 MST		0	Source: Public
Shingles were torn off of numerous structures due to these very strong thunderstorm winds. These winds were likely the result of the rear flank downdraft on the back side of a tornadic thunderstorm that was occurring around the same time in Dickinson. See the tornado entry for Stark County the same day from 1915 MST to 1930 MST.				
<b>STARK COUNTY --- 2.4 SW DICKINSON [46.86, -102.82], 1.5 SSE DICKINSON [46.86, -102.77]</b>				
	07/08/09 19:15 MST		20M	Tornado (EF3, L: 2.29 mi , W: 350 yd)
	07/08/09 19:30 MST	2	0	Source: NWS Storm Survey
Meteorologists from the National Weather Service conducted a storm damage survey in and around Dickinson on Thursday, July 9th, 2009. Meteorologists walked through the area and spoke with numerous people affected, many of whom were eye witnesses to the event.				
This tornado passed through the city of Dickinson on the far south side, mainly just south of the Heart River. No witnesses spoken to actually saw the tornado. From their eye witness accounts, and from video obtained by the Dickinson Police Department, it is likely that this was a rain-wrapped tornado, and very difficult if not impossible to see. The tornado occurred before sunset, yet it was described as being as dark as night during the event.				
The conclusion of the damage survey was that this tornado touched down around a mile or so outside the city limits, on the southwest side, and moved east-northeast, passing through the far southern part of the city. It lifted back into the parent thunderstorm on the extreme southeast side of Dickinson near the city limit. This occurred in the window between 815 PM MDT and 830 PM MDT.				
Over 450 structures were damaged, of which nearly 100 were declared completely destroyed or beyond repair. Numerous vehicles were damaged or destroyed, some were on their roofs. Power lines were snapped, knocking out power to most of Dickinson, and tree damage was extensive. Two minor injuries were reported, with no deaths. The injuries were to a 23 year old male and a 42 year old male. Both occurred in homes.				
The worst damage surveyed was between the Heart River and roughly 8th Street Southwest and 8th Street Southeast in southern Dickinson. Of that damage, the absolute worst corresponded to middle EF3 on the Enhanced Fujita Tornado Scale. From that it was determined that peak wind speeds in the tornado were on the order of 150 mph.				
Other parts of Dickinson and the surrounding area sustained wind damage likely associated with the rear flank downdraft of the storm.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>BURKE COUNTY --- 0.8 NNE NORTHGATE [48.99, -102.26]</b>				
	07/08/09 19:17 CST		0	Hail (0.88 in)
	07/08/09 19:22 CST		0	Source: Law Enforcement
<b>BURKE COUNTY --- 3.3 ENE NORTHGATE [48.99, -102.20], 3.5 E NORTHGATE [48.98, -102.19]</b>				
	07/08/09 19:19 CST		30K	Tornado (EF0, L: 0.76 mi , W: 40 yd)
	07/08/09 19:24 CST		0	Source: Law Enforcement
Oil storage tanks were reported damaged from a tornado east of Northgate. The damage corresponded to high end EF0 on the Enhanced Fujita Tornado Scale. From that it was determined that wind speed were around 85 mph. There were no other damage reports. There were no injuries and no deaths.				
<b>BURKE COUNTY --- 3.1 WNW POWERS LAKE [48.59, -102.69], 1.3 WNW POWERS LAKE [48.58, -102.66]</b>				
	07/08/09 19:35 CST		0	Tornado (EF0, L: 1.83 mi , W: 40 yd)
	07/08/09 19:40 CST		0	Source: Public
This report came to the National Weather Service from the public, relayed through broadcast media. The report was of a brief tornado that hit no structures and did no damage. No reports of injuries or deaths were received.				
<b>ADAMS COUNTY --- 0.4 S BUCYRUS [46.06, -102.78], 12.0 E HAYNES [45.95, -102.22]</b>				
	07/08/09 19:50 MST		0.50M	Hail (2.75 in)
	07/08/09 20:40 MST		0.75M	Source: Newspaper
A severe thunderstorm brought a two to three mile wide swath of very large hail across southern Adams County. The maximum hail size reported was baseball size and fell on a farm about three miles east and four miles north of Hettinger. That farm had 100 percent crop loss over 1,500 acres and had extensive damage to buildings, machinery, and vehicles. National Weather Service officials spoke with the owner of the farm who stated that every window on the west and north sides was broken. Hail broke windows on the farm house, came inside the dwelling, and broke picture frames, knickknacks, and a large screen television inside. Five sheep were beaten to death by the hail. Large hail, but smaller than baseball size, fell on the north side of Hettinger. Windows were broken and siding and roofs were damaged. Damage amounts are estimated from newspaper articles and from speaking with victims.				
<b>RENVILLE COUNTY --- 0.8 SSW SHERWOOD [48.96, -101.63]</b>				
	07/08/09 20:17 CST		0	Funnel Cloud
	07/08/09 20:19 CST		0	Source: Law Enforcement
Law enforcement reported this brief funnel cloud near Sherwood.				
<b>BURKE COUNTY --- 2.5 SSE LIGNITE [48.85, -102.52]</b>				
	07/08/09 20:18 CST		0	Hail (1.00 in)
	07/08/09 20:23 CST		0	Source: Law Enforcement
<b>RENVILLE COUNTY --- 9.0 WSW SHERWOOD [48.92, -101.80], 2.0 WSW LORAINE [48.86, -101.59]</b>				
	07/08/09 20:30 CST		80K	Tornado (EF1, L: 10.54 mi , W: 50 yd)
	07/08/09 20:50 CST		0	Source: Public
This tornado touched down in rural parts of northern Renville County. There was damage done on a farmstead nine miles west and four miles south of Sherwood. The tornado damage was rated low end EF1 on the Enhanced Fujita Tornado Scale. From that it was determined that wind speeds were on the order of 90 mph. No injuries or deaths were reported.				
<b>MERCER COUNTY --- 0.8 SE HAZEN [47.29, -101.62]</b>				
	07/08/09 21:07 MST		0	Thunderstorm Wind (MG 51 kt)
	07/08/09 21:12 MST		0	Source: AWOS
<b>MORTON COUNTY --- 5.1 NE GLEN ULLIN [46.87, -101.75]</b>				
	07/08/09 21:41 CST		0	Thunderstorm Wind (EG 61 kt)
	07/08/09 21:46 CST		0	Source: Public
The public reported an estimated severe thunderstorm wind gust of 70 mph.				
<b>MCLEAN COUNTY --- 0.5 E TURTLE LAKE [47.52, -100.89]</b>				
	07/08/09 22:34 CST		0	Thunderstorm Wind (EG 52 kt)
	07/08/09 22:40 CST		0	Source: Public

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
The public reported an estimated severe thunderstorm wind gust of 60 mph.				
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<b>MCLEAN COUNTY --- 3.8 E COLEHARBOR [47.56, -101.14]</b>	07/08/09 22:35 CST		5K	Thunderstorm Wind (EG 61 kt)
	07/08/09 22:41 CST		0	Source: Public

The public reported an estimated severe thunderstorm wind gust of 70 mph. Tree branches were broken.

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<b>BURLEIGH COUNTY --- 4.2 NE BISMARCK [46.85, -100.72]</b>	07/09/09 00:00 CST		5K	Thunderstorm Wind (EG 52 kt)
	07/09/09 00:07 CST		0	Source: Public

Estimated severe thunderstorm winds of 60 mph damaged the soffits on a home.

In the mid afternoon hours of Wednesday, July 8th, Tornado Watch 563 was issued for all of western and parts of central North Dakota, due to the expected widespread and dangerous development and rapid intensification of thunderstorms near a surface trough along the western North Dakota border. Destabilization along the surface trough, coupled with the approach of a strong upper level trough and an intensifying late afternoon/early evening low level jet, all contributed to the watch issuance. Later Wednesday evening, Severe Thunderstorm Watch 565 was issued for much of central North Dakota to replace the expiring Tornado Watch, and specifically to account for a developing bow echo which was expected to push east across the watch area into the early morning hours of Thursday, July 9th.

The end result was a large severe weather outbreak experienced across much of west and central North Dakota, lasting from the late afternoon hours of the 8th, into the early morning hours of the 9th. Multiple severe thunderstorm and tornado warnings were issued. Numerous reports of large hail and severe thunderstorm wind gusts were received throughout this event. Several tornadoes occurred, including an EF3 within city limits on the south side of Dickinson. That tornado alone resulted in over twenty million dollars in damage.

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*A photo of a destroyed home in Dickinson, North Dakota, on July 9, 2009, the day after an EF3 tornado struck the city. NWS photo.*

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**STARK COUNTY --- 10.0 NE DICKINSON [46.98, -102.63]**

07/11/09 17:30 MST	5K	Hail (1.50 in)
07/11/09 17:38 MST	0	Source: Public

Vehicles were dented by the hail.

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**STARK COUNTY --- 3.4 NE GLADSTONE [46.91, -102.51]**

07/11/09 17:37 MST	0	Hail (1.00 in)
07/11/09 17:42 MST	0	Source: Trained Spotter

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**STARK COUNTY --- 2.0 ESE GLADSTONE [46.86, -102.51], 6.0 ESE GLADSTONE [46.84, -102.43]**

07/11/09 17:55 MST	0	Tornado (EF0, L: 4.00 mi , W: 30 yd)
07/11/09 18:05 MST	0	Source: Trained Spotter

Trained weather spotters reported this tornado touchdown in open country in the vicinity of Gladstone. The tornado impacted no objects. There was no damage and there were no injuries.

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**DIVIDE COUNTY --- 0.8 SSW CROSBY [48.91, -103.29]**

07/11/09 18:30 CST	20K	Thunderstorm Wind (EG 61 kt)
07/11/09 18:40 CST	0	Source: Newspaper

Severe thunderstorm wind gusts resulted in broken tree branches, tipped over grain bins, and some broken windows.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>GRANT COUNTY --- NEW LEIPZIG [46.37, -101.95]</b>				
	07/11/09 19:25 MST		0	Hail (1.00 in)
	07/11/09 19:30 MST		0	Source: Law Enforcement
<b>BURKE COUNTY --- 7.0 ESE POWERS LAKE [48.55, -102.48]</b>				
	07/11/09 20:38 CST		0	Hail (0.88 in)
	07/11/09 20:43 CST		0	Source: Trained Spotter
<b>MOUNTRAIL COUNTY --- 1.5 WNW STANLEY [48.33, -102.41]</b>				
	07/11/09 20:55 CST		25K	Thunderstorm Wind (MG 69 kt)
	07/11/09 21:00 CST		0	Source: Trained Spotter
Trained weather spotters reported damage from the severe thunderstorm wind gusts. A small metal building was reported blown into a ditch, numerous tree branches were blown down, and one window was reported blown out of a trailer home.				
<b>MERCER COUNTY --- 0.7 ESE BEULAH [47.27, -101.77]</b>				
	07/11/09 21:52 MST		10K	Thunderstorm Wind (MG 56 kt)
	07/11/09 22:06 MST		0	Source: Newspaper
Severe thunderstorm wind gusts resulted in some tree damage in and around Beulah.				
<b>MERCER COUNTY --- STANTON [47.32, -101.38]</b>				
	07/11/09 22:00 MST		75K	Thunderstorm Wind (EG 61 kt)
	07/11/09 22:13 MST		0	Source: Newspaper
Severe thunderstorm wind gusts resulted in extensive tree damage in and around Stanton. Several windows were blown out.				
<b>MCLEAN COUNTY --- 1.5 SSW GARRISON MUNI ARPT [47.61, -101.39]</b>				
	07/11/09 22:41 CST		0	Thunderstorm Wind (MG 50 kt)
	07/11/09 22:46 CST		0	Source: ASOS
<b>EMMONS COUNTY --- 0.5 W TEMVIK [46.37, -100.26]</b>				
	07/12/09 01:27 CST		0	Thunderstorm Wind (EG 52 kt)
	07/12/09 01:33 CST		0	Source: Law Enforcement
Local law enforcement reported an estimated severe thunderstorm wind gust of 60 mph.				
Isolated supercellular thunderstorms developed during the early evening hours of July 11th, along a weak surface boundary stretched across western North Dakota. Thunderstorm development was aided by sufficient deep layer shear and by large scale ascent ahead of an approaching upper level jet streak. Several severe thunderstorm and tornado warnings were issued. Several reports of large hail and severe thunderstorm wind gusts were received through the evening hours of the 11th and into the early morning hours of the 12th. One report of a tornado was also received.				

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*Photo courtesy of James Jacobs of Regent.*

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**ADAMS COUNTY --- 15.4 ENE HAYNES [46.03, -102.16]**

	07/13/09 05:10 MST	0	Hail (1.00 in)
	07/13/09 05:15 MST	0	Source: Trained Spotter

One large hail report was received from Adams County in southwest North Dakota during the morning hours of July 13th. Predawn thunderstorms had developed in northwest South Dakota and southwest North Dakota.

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**(ND-Z045) SIOUX, (ND-Z046) EMMONS**

	07/13/09 23:50 CST	35K	High Wind (MAX 53 kt)
	07/14/09 01:55 CST	0	

Strong outflow wind from thunderstorms in northern South Dakota resulted in several reports of wind damage over far south central North Dakota. No thunder was heard during the event and the nearest storms were over 50 miles away.

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**DUNN COUNTY --- 5.6 SW KILLDEER [47.31, -102.85]**

	07/19/09 17:25 MST	0	Thunderstorm Wind (EG 52 kt)
	07/19/09 17:30 MST	0	Source: Trained Spotter

A trained spotter reported an estimated severe thunderstorm wind gust of 60 mph.

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**MCLEAN COUNTY --- 9.7 SSW ROSEGLEN [47.62, -101.91]**

	07/19/09 19:25 CST	0	Hail (0.88 in)
	07/19/09 19:31 CST	0	Source: Trained Spotter

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**MCHENRY COUNTY --- 4.6 NE GUTHRIE [48.04, -100.30]**



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	07/19/09 22:40 CST		0	Hail (1.50 in)
	07/19/09 22:46 CST		0	Source: COOP Observer

No damage was reported.

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### PIERCE COUNTY --- 1.7 SSW BALTA [48.15, -100.05]

07/19/09 22:55 CST	0	Hail (1.00 in)
07/19/09 23:02 CST	0	Source: Trained Spotter

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### PIERCE COUNTY --- 3.1 SE SILVA [48.14, -99.87]

07/19/09 23:05 CST	0	Hail (1.50 in)
07/19/09 23:11 CST	0	Source: Trained Spotter

No damage was reported.

In the early evening hours of July 19th, Severe Thunderstorm Watch 605 was issued in anticipation of severe thunderstorms developing in the vicinity of a low level moisture convergence axis and an approaching mid level short wave trough. In addition, strong diabatic heating and cold air advection aloft produced steep mid-level lapse rates which resulted in destabilization of the atmosphere. Several severe thunderstorm warnings were issued. Several reports of large hail and one report of a severe thunderstorm wind gust were received during the evening hours.