

## Storm Data and Unusual Weather Phenomena - August 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>NORTH DAKOTA, Central and West</b>				
<b>BOWMAN COUNTY --- 6.4 WNW HALEY [45.99, -103.25]</b>				
	08/07/09 21:40 MST		15K	Hail (1.75 in)
	08/07/09 21:46 MST		0	Source: Trained Spotter
Severe hail damaged two vehicles and one camper.				
A cold pool which developed over southwest North Dakota ahead of severe convection in southeast Montana supported the eastward progression of thunderstorms into portions of far southwestern North Dakota during the late evening hours of August 7th. One report of severe hail was received.				
<b>MCKENZIE COUNTY --- 13.8 N GRASSY BUTTE [47.60, -103.26]</b>				
	08/13/09 22:26 MST		0	Hail (0.88 in)
	08/13/09 22:31 MST		0	Source: Trained Spotter
<b>MOUNTRAIL COUNTY --- 1.5 SSW PARSHALL [47.95, -102.14]</b>				
	08/14/09 01:03 CST		0	Hail (1.00 in)
	08/14/09 01:09 CST		0	Source: Law Enforcement
In the early morning hours of August 14th, elevated thunderstorms developing north of a stationary surface boundary across portions of northeastern Montana and northwestern North Dakota, increased in severity as a strengthening low level jet enhanced the ascent over this area. Two reports of large hail were received.				
<b>SHERIDAN COUNTY --- 1.0 W MARTIN [47.83, -100.14], 2.0 NE MARTIN [47.85, -100.09]</b>				
	08/14/09 05:25 CST		20K	Thunderstorm Wind (EG 61 kt)
	08/14/09 05:40 CST		75K	Source: Broadcast Media
Severe thunderstorm winds blew down a steel grain bin and downed several large trees and tree branches. The winds were combined with hail and resulted in severe damage to a corn field northeast of Martin.				
<b>PIERCE COUNTY --- 0.8 NW SELZ [47.86, -99.89]</b>				
	08/14/09 05:30 CST		15K	Thunderstorm Wind (EG 61 kt)
	08/14/09 05:40 CST		0	Source: Public
Severe thunderstorm winds blew down trees near Selz.				
<b>WELLS COUNTY --- 4.7 WSW HARVEY ARPT [47.77, -100.02]</b>				
	08/14/09 05:30 CST		25K	Thunderstorm Wind (MG 55 kt)
	08/14/09 05:41 CST		0	Source: Broadcast Media
Severe thunderstorm winds blew the roof off of a barn.				
<b>MCHENRY COUNTY --- 0.5 W ANAMOOSSE [47.88, -100.24]</b>				
	08/14/09 05:35 CST		0	Hail (1.25 in)
	08/14/09 05:45 CST		0	Source: Public
<b>WELLS COUNTY --- 6.0 WNW HARVEY [47.80, -100.02]</b>				
	08/14/09 05:35 CST		35K	Thunderstorm Wind (EG 61 kt)
	08/14/09 05:43 CST		0	Source: Public
Severe thunderstorm winds resulted in a steel roof being blown off of a farm outbuilding and damage to fence posts.				
<b>WELLS COUNTY --- 6.0 WNW HARVEY [47.80, -100.02]</b>				
	08/14/09 05:35 CST		0	Hail (1.25 in)
	08/14/09 05:45 CST		50K	Source: Public
Damage was reported to a sunflower field near Harvey.				
<b>WELLS COUNTY --- 3.0 W HARVEY [47.77, -99.96], 1.0 E HARVEY [47.77, -99.88]</b>				

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	08/14/09 05:53 CST		20K	Thunderstorm Wind (MG 55 kt)
	08/14/09 06:01 CST		0	Source: Broadcast Media

Numerous tree branches were reported blown down by severe thunderstorm winds in Harvey.

<b>WELLS COUNTY --- 1.5 NNW HEIMDAL [47.82, -99.63]</b>				
	08/14/09 06:02 CST		0	Hail (1.00 in)
	08/14/09 06:09 CST		0	Source: Trained Spotter

<b>WELLS COUNTY --- 1.5 NNW HEIMDAL [47.82, -99.63]</b>				
	08/14/09 06:02 CST		5K	Thunderstorm Wind (EG 65 kt)
	08/14/09 06:10 CST		0	Source: Trained Spotter

A fifteen inch in diameter box elder tree was blown down by severe thunderstorm winds.

**A strong short wave impulse ejecting northeast across North Dakota, coupled with strong ascent ahead of a surface boundary, maintained thunderstorm activity across portions of central North Dakota throughout the early morning hours of August 14th. These storms eventually moved east into an area of moderate to strong elevated instability just to the west of the Devils Lake Basin, resulting in rapid intensification around sunrise. Several severe thunderstorm warnings were issued. Several reports of large hail and several reports of damage from severe thunderstorm winds were received in less than one hour.**

<b>STUTSMAN COUNTY --- 0.7 S BUCHANAN [47.06, -98.83]</b>				
	08/14/09 16:20 CST		0	Heavy Rain
	08/14/09 18:20 CST		0	Source: Public

The very heavy rain fell within a two hour period. No reports of damage were received.

<b>DICKEY COUNTY --- 0.5 W ELLENDALE [46.00, -98.53]</b>				
	08/14/09 17:27 CST		50K	Thunderstorm Wind (MG 53 kt)
	08/14/09 17:32 CST		0	Source: Newspaper

Numerous tree damage was reported in the city of Ellendale due to the severe thunderstorm winds.

<b>DICKEY COUNTY --- 0.8 NW OAKES [46.14, -98.09]</b>				
	08/14/09 18:00 CST		0	Thunderstorm Wind (MG 54 kt)
	08/14/09 18:05 CST		0	Source: AWOS

**In the late afternoon of August 14th, Severe Thunderstorm Watch 704 was issued for ongoing strong to severe thunderstorms moving along a surface cold front over portions of southeastern North Dakota. Two reports of severe thunderstorm wind gusts were received, along with one report of heavy rain.**

<b>MCKENZIE COUNTY --- WATFORD CITY [47.80, -103.28]</b>				
	08/23/09 22:55 MST		5K	Thunderstorm Wind (EG 52 kt)
	08/23/09 23:03 MST		0	Source: Law Enforcement

Severe thunderstorm winds resulted in broken tree branches.

<b>WILLIAMS COUNTY --- 0.5 E TRENTON [48.07, -103.84]</b>				
	08/23/09 22:55 CST		0	Hail (1.00 in)
	08/23/09 23:01 CST		25K	Source: Mesonet

The large hail resulted in some reported damage to crops.

<b>WILLIAMS COUNTY --- 0.5 W WILLISTON [48.15, -103.63]</b>				
	08/23/09 23:28 CST		0	Hail (0.88 in)
	08/23/09 23:34 CST		0	Source: NWS Employee

<b>WILLIAMS COUNTY --- 5.2 NNE (ISN)SLOULIN FLD WIL [48.25, -103.61]</b>				
	08/23/09 23:30 CST		10K	Hail (1.00 in)
	08/23/09 23:37 CST		25K	Source: Mesonet

Large hail resulted in damage to crops and vehicles.

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<b>WILLIAMS COUNTY --- 4.4 NW SPRING BROOK [48.30, -103.53]</b>	08/23/09 23:35 CST		0	Hail (1.00 in)
	08/23/09 23:42 CST		0	Source: Trained Spotter
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<b>MOUNTRAIL COUNTY --- 1.1 SW ROSS [48.31, -102.55]</b>	08/24/09 00:55 CST		0	Hail (1.00 in)
	08/24/09 01:01 CST		0	Source: Public
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<b>MOUNTRAIL COUNTY --- LOSTWOOD [48.48, -102.42]</b>	08/24/09 01:30 CST		0	Thunderstorm Wind (EG 56 kt)
	08/24/09 01:40 CST		0	Source: Public

A public report of severe thunderstorm winds was received with no reports of damage.

In the mid evening hours of August 23rd, Tornado Watch 733 was issued for western and portions of central North Dakota in anticipation of supercellular thunderstorms developing downstream of a shortwave impulse, and in the vicinity of a strengthening low level jet in the warm sector of a surface low in southeast Montana. Later, in the early morning hours of August 24th, Severe Thunderstorm Watch 734 was issued for north central North Dakota to account for a bow echo over northwest North Dakota tracking east during the overnight hours. Several reports of large hail and severe thunderstorm wind gusts were received during the late evening hours of the 23rd through the early morning hours of the 24th.