

## Storm Data and Unusual Weather Phenomena - August 2014

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

**GRANT COUNTY --- 2.1 NNW RALEIGH [46.40, -101.31]**

08/04/14 06:10 MST		0	Hail (0.75 in)
08/04/14 06:15 MST		50K	Source: Public

Some crop damage was reported.

A subtle shortwave moving through the area produced morning thunderstorms over southwest North Dakota.

**BURLEIGH COUNTY --- 3.6 NE BALDWIN [47.07, -100.72]**

08/09/14 14:23 CST		0	Funnel Cloud
08/09/14 14:25 CST		0	Source: Public

A frontal boundary along with ample low level moisture were present when a short lived funnel cloud developed.

**DUNN COUNTY --- 51.8 NW KILLDEER [47.80, -103.68], 10.9 WNW MANNING [47.28, -102.99], 2.3 SW NEW HRADEC [46.98, -102.92], 11.5 SE MARSHALL [47.01, -102.16], 15.0 NNE HALLIDAY [47.56, -102.25]**

08/15/14 22:30 MST		1.70M	Flood (due to Heavy Rain)
08/17/14 15:00 MST		0.40M	Source: Emergency Manager

Upwards of 10.50 inches of rain in parts of Dunn County led to very significant overland flooding. There was also flooding along the Knife River and its tributaries. There was significant damage to roads and crops. A county emergency declaration was issued.

**MCKENZIE COUNTY --- 3.7 SSW ALEXANDER [47.80, -103.68], 14.7 SE GRASSY BUTTE [47.28, -102.99], 32.9 SSE GRASSY BUTTE [46.98, -102.92], 54.8 SSE MANDAREE [47.01, -102.16], 22.9 ESE MANDAREE [47.56, -102.25]**

08/15/14 22:30 MST		1.30M	Flood (due to Heavy Rain)
08/17/14 15:00 MST		0.25M	Source: Emergency Manager

Upwards of three inches of rain in parts of McKenzie County led to significant overland flooding. There was significant damage to roads and crops. A county emergency declaration was issued.

**STARK COUNTY --- 8.5 NNE SOUTH HEART [46.98, -102.92], 11.2 N ANTELOPE [47.01, -102.16], 5.5 ESE ANTELOPE [46.81, -102.10], 4.3 E SOUTH HEART [46.86, -102.91]**

08/15/14 22:30 MST		0.55M	Flood (due to Heavy Rain)
08/17/14 15:00 MST		0.18M	Source: Emergency Manager

Upwards of six inches of rain in parts of Stark County led to overland flooding. There was damage to roads and crops in the northern part of the county.

**MERCER COUNTY --- 19.1 SSW GOLDEN VLY [47.01, -102.16], 21.1 NNW GOLDEN VLY [47.56, -102.25], 10.4 N BEULAH [47.42, -101.77], 20.0 S BEULAH [46.98, -101.77]**

08/15/14 23:30 CST		2.50M	Flood (due to Heavy Rain)
08/17/14 16:00 CST		0.50M	Source: Emergency Manager

Upwards of nine inches of rain in parts of western Mercer County led to very significant overland flooding. There was also flooding along the Knife River, Spring Creek, and their tributaries. Water was added to the Knife River system not only from rain in Mercer County but rain in Dunn County as well. There was significant damage to roads and crops. Officials estimated damage to at least 90 residences. Damage occurred to storm sewer and sanitary sewer systems. A county emergency declaration was issued.

**BURLEIGH COUNTY --- 1.5 SSW DRISCOLL [46.83, -100.14], 10.1 ESE DRISCOLL [46.82, -99.92], 18.1 SE DRISCOLL [46.64, -99.90], 5.9 ESE MOFFIT [46.64, -100.17]**

08/16/14 10:40 CST		30K	Flash Flood (due to Heavy Rain)
08/16/14 15:00 CST		25K	Source: Emergency Manager

Around five inches of rain caused flash flooding across county and township roads in southeast Burleigh County, washing some out. There was also crop damage. Flash flooding also occurred across the county line into southwest Kidder County.

**KIDDER COUNTY --- 7.7 W STEELE MUNI ARPT [46.83, -100.14], 2.3 SSW STEELE [46.82, -99.92], 14.5 S STEELE [46.64, -99.90], 17.1 SSW STEELE MUNI ARPT [46.64, -100.17]**

08/16/14 10:40 CST		25K	Flash Flood (due to Heavy Rain)
08/16/14 15:00 CST		35K	Source: Emergency Manager

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Around five inches of rain caused flash flooding across county and township roads in southwest Kidder County, washing some out. There was also crop damage. Flash flooding also occurred across the county line into southeast Burleigh County.

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**LOGAN COUNTY --- 6.1 NW NAPOLEON [46.57, -99.85], 13.8 ENE NAPOLEON [46.60, -99.52], 4.2 E BURNSTAD [46.38, -99.53], 6.9 SSW NAPOLEON [46.40, -99.81]**

	08/16/14 10:40 CST		0.25M	Flash Flood (due to Heavy Rain)
	08/16/14 13:00 CST		0.10M	Source: Emergency Manager

Many homes had significant amounts of water in their basements from runoff. Some basements collapsed. Rain amounts were up to six inches. Crops were flooded.

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**BURLEIGH COUNTY --- 6.5 ENE WILTON [47.20, -100.67], 1.6 WNW ARENA [47.14, -100.20], 4.8 NW DRISCOLL [46.90, -100.20], 10.3 ESE BALDWIN [46.97, -100.57]**

	08/16/14 13:30 CST		20K	Flash Flood (due to Heavy Rain)
	08/16/14 18:30 CST		50K	Source: Emergency Manager

Around four inches of rain caused flash flooding across county and township roads in southeast Burleigh County, washing some out and forcing them to be closed. There was also crop damage.

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**STUTSMAN COUNTY --- (JMS)JAMESTOWN MUNI [46.93, -98.68], 1.5 ESE STATE HOSPITAL [46.87, -98.64], 2.7 SW JAMESTOWN [46.87, -98.74], 2.1 NW JAMESTOWN [46.92, -98.73]**

	08/16/14 15:45 CST		10K	Flash Flood (due to Heavy Rain)
	08/16/14 17:45 CST		0	Source: Law Enforcement

Around two inches of rain in parts of Jamestown caused flash flooding in the city as storm drains could not accommodate the rate of rainfall. Streets were flooded and there were a few reports of water flowing across front yards and into basements.

Several waves of heavy rain, with embedded non severe thunderstorms with torrential rain, moved through western and central North Dakota. There was overland, stream, river and flash flooding, mainly over the southern half of the western and central parts of the state. The hardest hit areas were between Williston and Dickinson, and between Bismarck and Jamestown. Up to six inches of rain fell from Kintyre to Napoleon to Menoken. Up to 11 inches was indicated by radar and verified through ground truth rain gauge reports in the Dunn and Mercer County areas. 10.50 inches of rain was reported nine miles south of Dunn Center, Dunn County. Damage was in the millions of dollars. Some counties had to close roads because of flooding. Weight limits were placed on other roads as the road beds softened. The rain was the result of a mid level atmospheric circulation that moved very slowly across North Dakota. Flood watches were posted for parts of the area more than a day in advance and were followed by advisories and warnings. Several counties issued disaster declarations.

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**BOWMAN COUNTY --- 13.8 WSW RHAME [46.16, -103.92]**

	08/17/14 12:15 MST		0	Hail (0.75 in)
	08/17/14 12:16 MST		0	Source: Public

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**BOWMAN COUNTY --- 8.3 S RHAME [46.11, -103.67]**

	08/17/14 12:48 MST		0	Hail (0.75 in)
	08/17/14 12:51 MST		0	Source: Trained Spotter

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**BOWMAN COUNTY --- 4.2 S BOWMAN [46.12, -103.39]**

	08/17/14 13:34 MST		0	Thunderstorm Wind (MG 50 kt)
	08/17/14 13:36 MST		0	Source: Department of Highways

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**RENVILLE COUNTY --- 0.7 S GLENBURN [48.51, -101.22]**

	08/17/14 14:00 CST		0	Hail (1.00 in)
	08/17/14 14:02 CST		0	Source: Trained Spotter

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**BOWMAN COUNTY --- 0.5 W SCRANTON [46.15, -103.14]**

	08/17/14 14:27 MST		0	Hail (1.00 in)
	08/17/14 14:28 MST		0	Source: Public

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**MCHEMRY COUNTY --- 1.8 E DEERING [48.40, -101.01]**

	08/17/14 14:55 CST		0	Thunderstorm Wind (EG 52 kt)
	08/17/14 14:57 CST		0	Source: Storm Chaser

Storm chasers estimated the wind gust. No damage was reported.

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<b>PIERCE COUNTY --- 4.6 E WOLFORD [48.50, -99.60]</b>				
	08/17/14 16:46 CST		0	Thunderstorm Wind (EG 52 kt)
	08/17/14 16:47 CST		50K	Source: Trained Spotter
A trained spotter estimated the wind speed and noted crop damage.				
<b>Modest instability and shear were noted ahead of a cold front that entered western North Dakota in the afternoon and progressed east into the evening.</b>				
<b>STARK COUNTY --- 5.5 S (DIK)DICKINSON MUNI [46.72, -102.79]</b>				
	08/20/14 13:46 MST		0	Hail (0.75 in)
	08/20/14 13:47 MST		0	Source: Public
<b>ROLETTE COUNTY --- 3.7 NNE THORNE [48.78, -99.89]</b>				
	08/20/14 14:19 CST		0	Hail (1.00 in)
	08/20/14 14:20 CST		0	Source: Trained Spotter
<b>STARK COUNTY --- 0.5 E LEFOR [46.68, -102.54]</b>				
	08/20/14 14:32 MST		30K	Thunderstorm Wind (EG 61 kt)
	08/20/14 14:35 MST		0	Source: Public
A shed was destroyed and trees were damaged.				
<b>MORTON COUNTY --- 4.9 S HEBRON [46.83, -102.05]</b>				
	08/20/14 16:55 CST		0	Hail (1.00 in)
	08/20/14 16:57 CST		0	Source: Public
<b>MORTON COUNTY --- 5.5 S GLEN ULLIN [46.74, -101.83]</b>				
	08/20/14 17:00 CST		0	Thunderstorm Wind (EG 52 kt)
	08/20/14 17:04 CST		0	Source: Public
A driver going north on North Dakota Highway 49 was having trouble staying on the road. Visibility was reduced to near zero in torrential rain.				
<b>BURLEIGH COUNTY --- 5.5 S BALDWIN [46.95, -100.78]</b>				
	08/20/14 18:00 CST		0	Hail (1.25 in)
	08/20/14 18:02 CST		0	Source: Broadcast Media
<b>WARD COUNTY --- 3.5 N SAWYER [48.13, -101.05]</b>				
	08/20/14 18:15 CST		0	Hail (0.75 in)
	08/20/14 18:17 CST		0	Source: Public
<b>EMMONS COUNTY --- 8.1 E LINTON [46.27, -100.06]</b>				
	08/20/14 20:45 CST		2K	Thunderstorm Wind (EG 52 kt)
	08/20/14 20:48 CST		0	Source: Public
Small tree branches were broken and yard furniture was damaged.				
<b>Thunderstorms formed mainly to the north of a warm front in a moisture rich atmosphere. Large hail and strong wind gusts were reported, with multiple reports of heavy rain split into two main areas. One area was mainly in south central North Dakota and the second in north central North Dakota.</b>				
<b>BILLINGS COUNTY --- 6.9 N FAIRFIELD [47.28, -103.22]</b>				
	08/30/14 18:16 MST		0	Hail (1.00 in)
	08/30/14 18:26 MST		0	Source: Public
<b>BILLINGS COUNTY --- 81.8 N REEDER [47.29, -103.22]</b>				
	08/30/14 18:17 MST		0	Hail (1.00 in)
	08/30/14 18:19 MST		0	Source: Public

An isolated severe storm struck southwest North Dakota.

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<b>WILLIAMS COUNTY --- 5.8 NE TRENTON [48.12, -103.75]</b>				
	08/31/14 16:30 CST		0	Thunderstorm Wind (EG 52 kt)
	08/31/14 16:35 CST		0	Source: Trained Spotter

The wind gust was estimated. No damage was reported.

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<b>MORTON COUNTY --- 3.4 N NEW SALEM [46.90, -101.42]</b>				
	08/31/14 20:55 CST		3K	Lightning
	08/31/14 20:55 CST	1	0	Source: Law Enforcement

A vehicle, traveling north on North Dakota Highway 31 north of New Salem, was struck by lightning. Airbags in the vehicle deployed. A female passenger in the front right seat of the vehicle suffered injuries and was taken to a hospital by ambulance. The vehicle sustained cosmetic damage and all electronics were inoperable. The vehicle was disabled.

**An isolated severe thunderstorm moved through parts of northwest North Dakota and produced severe wind gusts. A non severe thunderstorm caused a lightning injury in south central North Dakota, north of New Salem, in Morton County.**