

## Storm Data and Unusual Weather Phenomena - September 2024

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>NORTH DAKOTA, Central and West</b>				
<b>BURLEIGH COUNTY --- 0.8 SW STERLING [46.81, -100.29]</b>				
	09/10/24 01:00 CST		10K	Thunderstorm Wind (EG 65 kt)
	09/10/24 01:05 CST		0	Source: Public
Multiple trees were damaged in the city of Sterling.				
<b>Severe thunderstorm wind gusts occurred at Sterling in Burleigh County. Multiple trees were damaged in the community, with estimated wind gusts of 75 mph.</b>				
<b>HETTINGER COUNTY --- 14.0 NNE REGENT [46.59, -102.39]</b>				
	09/12/24 17:02 MST		0	Thunderstorm Wind (MG 54 kt)
	09/12/24 17:06 MST		0	Source: Mesonet
<b>HETTINGER COUNTY --- 14.5 N BURT [46.58, -102.15]</b>				
	09/12/24 17:45 MST		30K	Thunderstorm Wind (EG 70 kt)
	09/12/24 17:49 MST		0	Source: Public
A significant portion of a pole barn roof was lifted and folded back . A calf shelter was destroyed, wind bread panels were scattered, and a one-thousand gallon water tank blew over and rolled.				
<b>MORTON COUNTY --- 7.0 S HEBRON [46.80, -102.05]</b>				
	09/12/24 19:01 CST		0	Thunderstorm Wind (MG 55 kt)
	09/12/24 19:04 CST		0	Source: Mesonet
<b>A cold front moved into western North Dakota, which led to thunderstorm development during the evening hours. Some of the storms became severe, producing damaging wind gusts. The strongest wind gusts, which occurred in Hettinger County north of Burt, were estimated at 80 mph. These wind gusts caused significant damage to a pole barn roof, calf shelter, wind break panels, and a water tank.</b>				
<b>ADAMS COUNTY --- HETTINGER ARPT [46.02, -102.65]</b>				
	09/16/24 00:30 MST		0	Thunderstorm Wind (MG 63 kt)
	09/16/24 00:33 MST		0	Source: ASOS
<b>MCCLEAN COUNTY --- 10.4 S BUTTE [47.68, -100.67]</b>				
	09/16/24 00:30 CST		0	Hail (1.00 in)
	09/16/24 00:33 CST		0	Source: Public
<b>MERCER COUNTY --- 3.9 SSW PICK CITY [47.47, -101.51]</b>				
	09/16/24 00:30 CST		0	Hail (1.25 in)
	09/16/24 00:33 CST		0	Source: Storm Chaser
<b>MERCER COUNTY --- 6.1 W PICK CITY [47.51, -101.60]</b>				
	09/16/24 00:58 CST		0	Hail (1.75 in)
	09/16/24 01:00 CST		0	Source: Public
<b>MERCER COUNTY --- 18.6 SSW BEULAH [47.01, -101.88]</b>				
	09/16/24 02:30 CST		0	Hail (1.00 in)
	09/16/24 02:32 CST		0	Source: Public
<b>Thunderstorms developed along a gradient of strong instability as the nose of a strong low level jet lifted to the north through central and western North Dakota, with some storms becoming severe. The largest hail, which was the size of golf balls, occurred to the west of Pick City in Mercer County. The strongest wind gust of 72 mph occurred at the Hettinger Airport in Adams County.</b>				
<b>MCHENRY COUNTY --- 5.4 WSW VOLTAIRE [47.98, -100.93]</b>				
	09/16/24 17:55 CST		0	Hail (2.50 in)
	09/16/24 18:02 CST		0	Source: Public
<b>MCHENRY COUNTY --- BERGEN [48.00, -100.72]</b>				

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	09/16/24 18:35 CST		20K	Hail (1.75 in)
	09/16/24 18:38 CST		0	Source: Trained Spotter

Vehicles were dented by the golf ball size hail.

### MCHEMRY COUNTY --- 0.9 E DRAKE [47.92, -100.35]

	09/16/24 19:45 CST		0	Hail (0.88 in)
	09/16/24 19:47 CST		0	Source: Trained Spotter

### PIERCE COUNTY --- 4.3 ENE ORRIN [48.11, -100.09], 2.2 SE SILVA [48.15, -99.89], 7.8 SSE SILVA [48.06, -99.86], 6.6 SE ORRIN [48.02, -100.06]

	09/16/24 23:18 CST		35K	Flash Flood (due to Heavy Rain)
	09/17/24 02:00 CST		0	Source: Trained Spotter

Torrential rain occurred over the area with 4.5 inches falling that evening, which combined with an additional 1.5 inches that fell during the day. A road used for a driveway was washed out by the runoff, while ditches and culverts overflowed and damaged gravel roads.

**Thunderstorms formed to the north of a surface frontal zone in an area of elevated instability. Some storms became severe, producing large hail. The largest hail was the size of a tennis ball, which fell to the southwest of Voltaire in McHenry County. In addition to the hail, torrential rain fell with these storms. This led to flash flooding in Pierce County to the south and southeast of Balta and north of Highway 19. Over this area, 4.5 inches of rain fell during the evening hours, which combined with an additional 1.5 inches that fell during the day. A road used for a driveway was washed out by the runoff, while ditches and culverts in the area overflowed and damaged gravel roads.**

### ROLETTE COUNTY --- 1.9 NE BELCOURT [48.85, -99.70]

	09/18/24 18:31 CST		0	Hail (1.75 in)
	09/18/24 18:34 CST		0	Source: Public

### ROLETTE COUNTY --- 3.1 NE BELCOURT [48.86, -99.68]

	09/18/24 18:35 CST		0	Hail (1.00 in)
	09/18/24 18:38 CST		0	Source: Park/Forest Service

**A stacked low pressure system over eastern Montana gradually lifted north with bands of showers and thunderstorms passing over North Dakota. One thunderstorm became severe over eastern Rolette County. The largest hail reported from this storm was the size of a golf ball, and occurred to the northeast of Belcourt.**

### WILLIAMS COUNTY --- 7.7 NW (ISN)SLOULIN FLD WIL [48.27, -103.75]

	09/20/24 21:34 CST		0	Thunderstorm Wind (MG 53 kt)
	09/20/24 21:36 CST		0	Source: ASOS

**A thunderstorm developed and became severe over eastern Montana and then moved into northwestern North Dakota. As the thunderstorm passed over the Williston Airport, it produced wind gusts of 61 mph.**