

## Storm Data and Unusual Weather Phenomena - September 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>NORTH DAKOTA, Central and West</b>				
<b>WILLIAMS COUNTY --- 8.4 SW BONETRAILL [48.35, -104.00]</b>				
	09/02/19 10:00 CST	0		Hail (1.75 in)
	09/02/19 10:03 CST	0		Source: Trained Spotter
<b>MCKENZIE COUNTY --- 0.8 SE ALEXANDER [47.84, -103.64]</b>				
	09/02/19 10:10 MST	0		Hail (1.50 in)
	09/02/19 10:13 MST	0		Source: Emergency Manager
<b>MCKENZIE COUNTY --- 0.5 E ALEXANDER [47.85, -103.64]</b>				
	09/02/19 10:11 MST	0		Hail (1.75 in)
	09/02/19 10:12 MST	0		Source: Public
<b>MCKENZIE COUNTY --- 5.5 N WATFORD CITY [47.88, -103.27]</b>				
	09/02/19 10:36 MST	0		Hail (1.25 in)
	09/02/19 10:39 MST	0		Source: Trained Spotter
<b>WILLIAMS COUNTY --- 7.0 N (ISN)SLOULIN FLD WIL [48.28, -103.63]</b>				
	09/02/19 10:42 CST	0		Hail (1.00 in)
	09/02/19 10:44 CST	0		Source: Trained Spotter
<b>MCKENZIE COUNTY --- 3.5 N JOHNSONS CORNER [47.85, -102.94]</b>				
	09/02/19 10:55 MST	0		Hail (1.00 in)
	09/02/19 10:58 MST	0		Source: Public
<b>MCKENZIE COUNTY --- 5.6 E JOHNSONS CORNER [47.81, -102.81]</b>				
	09/02/19 11:02 MST	0		Hail (1.50 in)
	09/02/19 11:05 MST	0		Source: Public
<b>BURKE COUNTY --- 1.8 W BATTLEVIEW [48.58, -102.82]</b>				
	09/02/19 11:05 CST	0		Hail (1.00 in)
	09/02/19 11:08 CST	0		Source: Public
<b>MCLEAN COUNTY --- 6.9 S RAUB [47.65, -102.04]</b>				
	09/02/19 12:52 CST	0		Thunderstorm Wind (EG 52 kt)
	09/02/19 12:55 CST	0		Source: Trained Spotter
A trained spotter estimated thunderstorm wind gusts of 60 mph.				
<b>MCLEAN COUNTY --- 1.6 WSW FALKIRK [47.36, -101.13]</b>				
	09/02/19 14:00 CST	0		Hail (1.00 in)
	09/02/19 14:03 CST	0		Source: Public
<b>SHERIDAN COUNTY --- 8.7 NNE DENHOFF [47.59, -100.18]</b>				
	09/02/19 14:05 CST	0		Thunderstorm Wind (MG 59 kt)
	09/02/19 14:08 CST	0		Source: Public
<b>SHERIDAN COUNTY --- 1.2 SE MARTIN [47.82, -100.10]</b>				
	09/02/19 14:10 CST	0		Hail (0.88 in)
	09/02/19 14:13 CST	0		Source: Public
<b>WELLS COUNTY --- 1.6 ENE CHASELEY [47.46, -99.77]</b>				
	09/02/19 14:26 CST	0		Thunderstorm Wind (EG 52 kt)
	09/02/19 14:28 CST	0		Source: Trained Spotter
A trained spotter reported thunderstorm wind gusts of 60 mph.				

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<b>KIDDER COUNTY --- 8.6 NE ROBINSON [47.25, -99.66]</b>				
	09/02/19 14:45 CST		0	Thunderstorm Wind (EG 52 kt)
	09/02/19 14:48 CST		0	Source: Trained Spotter
A trained spotter estimated thunderstorm wind gusts of 60 mph.				
<b>FOSTER COUNTY --- CARRINGTON [47.45, -99.13]</b>				
	09/02/19 15:00 CST		50K	Hail (1.25 in)
	09/02/19 15:03 CST		0	Source: CoCoRaHS
Cars were dented from the hail.				
<b>FOSTER COUNTY --- CARRINGTON [47.45, -99.13]</b>				
	09/02/19 15:02 CST		0	Hail (1.00 in)
	09/02/19 15:05 CST		0	Source: Public
<b>STUTSMAN COUNTY --- 1.2 SW WOODWORTH [47.14, -99.32]</b>				
	09/02/19 15:05 CST		0	Thunderstorm Wind (MG 66 kt)
	09/02/19 15:08 CST		0	Source: Public
<b>STUTSMAN COUNTY --- 4.9 ENE EDMUNDS [47.27, -98.87]</b>				
	09/02/19 15:20 CST		0	Thunderstorm Wind (MG 52 kt)
	09/02/19 15:22 CST		0	Source: Mesonet
<b>STUTSMAN COUNTY --- 4.7 W COURTENAY [47.22, -98.67]</b>				
	09/02/19 15:32 CST		0	Thunderstorm Wind (MG 59 kt)
	09/02/19 15:34 CST		0	Source: Mesonet
<b>STUTSMAN COUNTY --- 0.7 N MEDINA [46.89, -99.30]</b>				
	09/02/19 15:35 CST		0	Thunderstorm Wind (EG 52 kt)
	09/02/19 15:37 CST		0	Source: Fire Department/Rescue
A fire department official reported thunderstorm wind gusts of 60 mph.				
<b>STUTSMAN COUNTY --- (JMS)JAMESTOWN MUNI [46.93, -98.68]</b>				
	09/02/19 15:46 CST		0.50M	Thunderstorm Wind (MG 74 kt)
	09/02/19 15:48 CST		0	Source: Emergency Manager
Multiple vehicles were overturned on Interstate 94 in the Jamestown area including semi-trucks and campers. This led to Interstate 94 being closed due to debris on the roadway. Tree branches breaking and falling on power lines led to multiple fire reports, along with widespread power outages. Also, many roadways were blocked by fallen trees and branches. A brick wall that was being constructed as part of a school expansion project collapsed as a result of the strong winds.				
<b>STUTSMAN COUNTY --- 8.0 E BUCHANAN [47.08, -98.66]</b>				
	09/02/19 15:50 CST		0	Hail (1.50 in)
	09/02/19 15:53 CST		0	Source: Public
<b>KIDDER COUNTY --- 11.8 S TAPPEN [46.70, -99.62]</b>				
	09/02/19 15:51 CST		0	Thunderstorm Wind (EG 52 kt)
	09/02/19 15:54 CST		0	Source: Trained Spotter
A trained spotter estimated thunderstorm wind gusts of 60 mph.				
<b>STUTSMAN COUNTY --- 2.9 WSW ELDRIDGE [46.89, -98.89]</b>				
	09/02/19 15:54 CST		80K	Thunderstorm Wind (MG 70 kt)
	09/02/19 15:57 CST		0	Source: Mesonet
A semi-truck and a camper were overturned by the strong thunderstorm wind gusts.				

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<b>LA MOURE COUNTY --- 2.8 SW JUD [46.49, -98.92]</b>				
	09/02/19 16:30 CST		0	Hail (1.00 in)
	09/02/19 16:33 CST		0	Source: Trained Spotter
<p>Discrete severe thunderstorms initially developed in the wake of a warm front in an area of strong instability over northwestern North Dakota during the late morning hours. The storms then started spreading southeast as a cold front pushed into the area. The initial storms were primarily a hail threat, with hail the size of golf balls reported in Williams and McKenzie counties. As the storms shifted southeast and became a line, the primary threat became strong wind gusts. By the time the storms reached the Jamestown area wind gusts were around 85 mph. This resulted in widespread tree and power line damage along with campers and semi-trucks overturning along Interstate 94 resulting in a brief closure of the interstate.</p>				
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<b>GOLDEN VALLEY COUNTY --- 1.7 NW BEACH MUNI ARPT [46.95, -104.04]</b>				
	09/17/19 17:38 MST		0	Hail (1.25 in)
	09/17/19 17:41 MST		0	Source: Trained Spotter
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<b>MCKENZIE COUNTY --- 5.5 N ARNEGARD [47.90, -103.44]</b>				
	09/17/19 19:12 MST		0	Thunderstorm Wind (EG 52 kt)
	09/17/19 19:15 MST		0	Source: Public
<p>The public estimated thunderstorm wind gusts of 60 mph.</p>				
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<b>WILLIAMS COUNTY --- 15.1 SSE EPPING [48.07, -103.26]</b>				
	09/17/19 20:42 CST		0	Hail (1.50 in)
	09/17/19 20:45 CST		0	Source: Public
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<b>WILLIAMS COUNTY --- 0.5 W EPPING [48.28, -103.36]</b>				
	09/17/19 20:57 CST		0	Hail (1.25 in)
	09/17/19 21:00 CST		0	Source: Public
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<b>WILLIAMS COUNTY --- EPPING [48.28, -103.35]</b>				
	09/17/19 20:57 CST		3K	Thunderstorm Wind (EG 52 kt)
	09/17/19 21:00 CST		0	Source: Public
<p>Large tree branches were broken down by the thunderstorm wind gusts.</p>				
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<b>WILLIAMS COUNTY --- 4.9 N TIOGA [48.47, -102.91]</b>				
	09/17/19 21:30 CST		0	Hail (1.75 in)
	09/17/19 21:33 CST		0	Source: Public
<p>A cold front pushing into the region resulted in thunderstorms developing in the late afternoon and evening hours. Some storms became severe over far western North Dakota. The strongest reported thunderstorm wind gust was 60 mph in Williams County. The largest hail reported was the size of golf balls, and also occurred in Williams County.</p>				
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<b>MOUNTRAIL COUNTY --- 3.5 N EPWORTH [48.17, -102.23]</b>				
	09/19/19 23:05 CST		0	Hail (1.75 in)
	09/19/19 23:08 CST		0	Source: Law Enforcement
<p>Thunderstorms over Montana pushed into North Dakota during the late evening hours into an environment of enhanced instability. One storm became severe over Mountrail County producing hail to the size of golf balls.</p>				
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<b>MOUNTRAIL COUNTY --- 0.5 W NEW TOWN [47.98, -102.49]</b>				
	09/20/19 10:36 CST		0	Hail (1.25 in)
	09/20/19 10:39 CST		0	Source: Public
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<b>MOUNTRAIL COUNTY --- 0.5 E BLAISDELL [48.33, -102.06]</b>				
	09/20/19 11:35 CST		0	Hail (2.50 in)
	09/20/19 11:39 CST		0	Source: Public
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<b>WARD COUNTY --- 8.3 W BERTHOLD [48.33, -101.91]</b>				

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	09/20/19 11:35 CST		0	Hail (2.75 in)
	09/20/19 11:38 CST		0	Source: Trained Spotter
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<b>BOTTINEAU COUNTY --- 5.0 NNE MAXBASS [48.78, -101.07]</b>				
	09/20/19 12:35 CST		0	Hail (1.00 in)
	09/20/19 12:39 CST		0	Source: Public
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<b>BOTTINEAU COUNTY --- 6.0 N MAXBASS [48.81, -101.13]</b>				
	09/20/19 12:40 CST		30K	Hail (2.75 in)
	09/20/19 12:42 CST		0	Source: Public
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A window was broken on the home, and holes were punched in the siding.				
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<b>BOTTINEAU COUNTY --- 5.4 WSW WESTHOPE [48.89, -101.13]</b>				
	09/20/19 12:45 CST		50K	Hail (2.25 in)
	09/20/19 12:49 CST		0	Source: Public
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Windshields were broken on cars. Homes and mailboxes were damaged.				
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<b>WARD COUNTY --- 3.1 WNW RYDER [47.94, -101.73]</b>				
	09/20/19 13:12 CST		0	Hail (0.88 in)
	09/20/19 13:15 CST		0	Source: Trained Spotter
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<b>WARD COUNTY --- 0.5 W BURLINGTON [48.28, -101.43]</b>				
	09/20/19 13:30 CST		0.20M	Hail (2.75 in)
	09/20/19 13:33 CST		0	Source: Public
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Vehicle windshields were broken. On homes, windows were broken and siding was damaged.				
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<b>WARD COUNTY --- 2.0 ESE (MIB)MINOT AFB [48.42, -101.33]</b>				
	09/20/19 13:56 CST		0	Hail (1.00 in)
	09/20/19 13:59 CST		0	Source: Other Federal Agency
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<b>WARD COUNTY --- 0.8 SSE (MIB)MINOT AFB [48.42, -101.36]</b>				
	09/20/19 14:27 CST		0	Hail (1.50 in)
	09/20/19 14:30 CST		0	Source: Public
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<b>EMMONS COUNTY --- LINTON [46.27, -100.23]</b>				
	09/20/19 15:36 CST		0	Hail (1.00 in)
	09/20/19 15:39 CST		0	Source: Trained Spotter
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<b>BURLEIGH COUNTY --- 3.2 ESE (BIS)BISMARCK MUNI A [46.76, -100.69]</b>				
	09/20/19 16:03 CST		0	Hail (0.75 in)
	09/20/19 16:06 CST		0	Source: Public
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<b>BURLEIGH COUNTY --- 5.8 ENE MOFFIT [46.70, -100.16]</b>				
	09/20/19 16:12 CST		0	Thunderstorm Wind (MG 54 kt)
	09/20/19 16:14 CST		0	Source: Mesonet
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<b>SHERIDAN COUNTY --- 9.9 SSE DENHOFF [47.34, -100.22]</b>				
	09/20/19 16:12 CST		0	Hail (1.00 in)
	09/20/19 16:15 CST		0	Source: Public
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<b>MORTON COUNTY --- 0.5 W BREIEN [46.38, -100.94]</b>				
	09/20/19 17:42 CST		0	Hail (1.00 in)
	09/20/19 17:44 CST		0	Source: Trained Spotter
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<b>WELLS COUNTY --- 10.6 NW HURDSFIELD [47.57, -100.03], 10.5 SW HURDSFIELD [47.33, -100.03], 11.2 SSE SYKESTON [47.33, -99.27], 6.4 ENE CATHAY [47.57, -99.27]</b>				

## Storm Data and Unusual Weather Phenomena - September 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/20/19 23:30 CST		0.50M	Flash Flood (due to Heavy Rain)
	09/21/19 04:00 CST		0.70M	Source: Emergency Manager

Deep flood waters flowed over many roads and caused damage throughout much of southern Wells County, where up to seven inches of rain fell from thunderstorms. Multiple roads were washed out and so closed for days. Parts of State Highway 200 and U.S. Highway 52 were closed resulting in major traffic detours. A part of State Highway 200 near Bowdon was washed out. The heavy rain also caused crop damage and yield loss. Hay bales were partially submerged in flood water. Soil erosion was extensive.

**SHERIDAN COUNTY --- 8.2 NNE GOODRICH [47.57, -100.03], 10.7 SSE GOODRICH [47.33, -100.03], 10.5 S MCCLUSKY [47.33, -100.45], 2.0 N MCCLUSKY [47.51, -100.45]**

09/20/19 23:45 CST	0.20M	Flash Flood (due to Heavy Rain)
09/21/19 04:00 CST	0.25M	Source: Public

Flood waters a few feet deep washed over rural roads in southern Sheridan County damaging many of them. Just over six inches of rain was reported. Crops were damaged with significant soil erosion occurring.

**Thunderstorms developed mid-day along and ahead of a slowly advancing cold front over northwestern North Dakota in an unseasonably moist and unstable atmosphere. The storms then spread south and east through the day. Some of the storms became severe with an initial threat of large hail, though some strong wind gusts were occurring by late day. The largest reported hail was the size of baseballs, which fell in Ward and Bottineau counties. The strongest reported thunderstorm wind gust was 62 mph, which occurred in Burleigh County. During the evening and overnight hours the primary threat switched to heavy rain, particularly over central North Dakota. Over southern portions of Wells and Sheridan Counties, up to seven inches of rain was reported resulting in washed out roads, crop damage, and hay bales partially submerged in water.**