

## Storm Data and Unusual Weather Phenomena - June 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>NORTH DAKOTA, Central and West</b>				
<b>(ND-Z005) ROLETTE, (ND-Z013) PIERCE</b>				
	06/01/19 08:30 CST		2K	High Wind (MAX 52 kt)
	06/01/19 10:30 CST		0	
High winds developed over Rollette and Pierce Counties where a wake low developed behind thunderstorms that passed through earlier in the morning.				
<b>BILLINGS COUNTY --- 4.2 SW MEDORA [46.87, -103.58]</b>				
	06/02/19 15:05 MST		15K	Hail (1.75 in)
	06/02/19 15:09 MST		0	Source: Trained Spotter
A roof was damaged on a home.				
<b>BILLINGS COUNTY --- 15.6 SSW SULLY SPGS [46.65, -103.47]</b>				
	06/02/19 16:30 MST		0	Hail (0.88 in)
	06/02/19 16:32 MST		0	Source: Trained Spotter
<b>SLOPE COUNTY --- 19.4 WNW AMIDON [46.56, -103.71]</b>				
	06/02/19 17:02 MST		0	Hail (0.88 in)
	06/02/19 17:08 MST		0	Source: Trained Spotter
<b>BOWMAN COUNTY --- 0.7 N RHAME [46.24, -103.65]</b>				
	06/02/19 18:25 MST		0.25M	Hail (1.75 in)
	06/02/19 18:30 MST		0	Source: Trained Spotter
Substantial damage was reported to roofs and siding in Rhame. Tree leaves were also stripped.				
<b>BOWMAN COUNTY --- 2.0 ENE RHAME [46.24, -103.61]</b>				
	06/02/19 18:26 MST		0	Hail (1.75 in)
	06/02/19 18:31 MST		0	Source: Trained Spotter
<b>BOWMAN COUNTY --- 2.0 ENE RHAME [46.24, -103.61]</b>				
	06/02/19 18:30 MST		50K	Hail (1.25 in)
	06/02/19 18:40 MST		0	Source: CoCoRaHS
Vehicles were dented by the hail.				
A surface trough over eastern Montana into southwest North Dakota served as the focus for thunderstorm development during the late afternoon and early evening hours. A few of these storms became severe producing large hail. The largest hail was golf ball size, and fell over Billings and Bowman Counties. Substantial damage occurred to homes and trees in the city of Rhame in Bowman County.				
<b>BOTTINEAU COUNTY --- 5.3 SE SOURIS [48.87, -100.58]</b>				
	06/03/19 15:20 CST		0	Hail (0.88 in)
	06/03/19 15:23 CST		0	Source: Emergency Manager
Scattered thunderstorms developed during the afternoon hours over northwest and north central North Dakota. One storm produced nickel size hail over Bottineau County.				
<b>DICKEY COUNTY --- 1.5 SSW OAKES MUNI ARPT [46.08, -98.09]</b>				
	06/04/19 15:40 CST		0	Thunderstorm Wind (MG 56 kt)
	06/04/19 15:42 CST		0	Source: Mesonet
Thunderstorms developed along a cold front during the afternoon hours over the southern James River Valley. One thunderstorm became severe, producing wind gusts to 64 mph near Oakes in Dickey County.				
<b>STUTSMAN COUNTY --- 0.7 N MEDINA [46.89, -99.30]</b>				
	06/07/19 18:47 CST		0	Hail (1.25 in)
	06/07/19 18:52 CST		0	Source: Public

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<b>BURLEIGH COUNTY --- 1.9 E MOFFIT [46.68, -100.24]</b>				
	06/07/19 23:47 CST		0	Thunderstorm Wind (MG 56 kt)
	06/07/19 23:49 CST		0	Source: Mesonet
<p>Thunderstorms formed along a pre-frontal trough in an environment of high instability during the early evening hours. One thunderstorm became severe, producing half-dollar size hail over Stutsman County. Later that night, another round of thunderstorms moved through southern portions of North Dakota behind the front. One storm from this round of thunderstorms became severe, producing a 64 mph wind gust over Burleigh County.</p>				
<b>BURLEIGH COUNTY --- 6.0 WSW BALDWIN [47.00, -100.89]</b>				
	06/11/19 14:27 CST		0	Hail (0.88 in)
	06/11/19 14:29 CST		0	Source: Public
<p>Scattered showers and isolated thunderstorms developed over North Dakota as a cold front passed through the region. One thunderstorm produced nickel size hail over Burleigh County.</p>				
<b>FOSTER COUNTY --- 2.0 SE GLENFIELD [47.43, -98.54]</b>				
	06/13/19 18:09 CST		0	Funnel Cloud
	06/13/19 18:11 CST		0	Source: Public
<p>Thunderstorms moved through central North Dakota during the early evening hours. One storm produced a funnel cloud over Foster County.</p>				
<b>HETTINGER COUNTY --- 7.3 NNW BURT [46.47, -102.20]</b>				
	06/14/19 16:38 MST		0	Hail (1.00 in)
	06/14/19 16:40 MST		0	Source: Public
<p>Thunderstorms developed over western and central North Dakota in the late afternoon and early evening as a surface low pressure system passed through the region. One storm became severe over Hettinger County, producing hail the size of a quarter.</p>				
<b>STUTSMAN COUNTY --- 6.3 WNW EDMUNDS [47.29, -99.09]</b>				
	06/15/19 13:40 CST		0	Funnel Cloud
	06/15/19 13:44 CST		0	Source: Public
<p>Funnel went up and down multiple times.</p>				
<b>STUTSMAN COUNTY --- 6.9 WSW EDMUNDS [47.20, -99.09], 7.0 SW EDMUNDS [47.19, -99.09]</b>				
	06/15/19 13:53 CST		0	Tornado (EF0, L: 0.37 mi , W: 30 yd)
	06/15/19 13:55 CST		5K	Source: Public
<p>The tornado touched down west of Pingree in a field and was rated EF-0.</p>				
<b>STUTSMAN COUNTY --- 2.9 WSW JAMESTOWN [46.89, -98.76]</b>				
	06/15/19 14:30 CST		0	Funnel Cloud
	06/15/19 14:32 CST		0	Source: Public
<b>STUTSMAN COUNTY --- 1.5 NNW WOODWORTH [47.17, -99.31]</b>				
	06/15/19 15:05 CST		0	Funnel Cloud
	06/15/19 15:07 CST		0	Source: Public
<b>WELLS COUNTY --- 3.7 W CATHAY [47.54, -99.48], 3.3 WSW CATHAY [47.54, -99.47]</b>				
	06/15/19 15:29 CST		0	Tornado (EF0, L: 0.46 mi , W: 30 yd)
	06/15/19 15:31 CST		5K	Source: Law Enforcement
<p>The tornado touched down in a field near Cathay. The tornado was given a rating of EF-0.</p>				
<b>LA MOURE COUNTY --- 3.7 NNE JUD [46.57, -98.85]</b>				
	06/15/19 16:30 CST		0	Funnel Cloud
	06/15/19 16:32 CST		0	Source: Public
<p>Multiple funnel clouds were reported.</p>				

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<b>DICKEY COUNTY --- 1.6 ENE MONANGO [46.18, -98.55]</b>				
	06/15/19 17:34 CST		0	Funnel Cloud
	06/15/19 17:37 CST		0	Source: Emergency Manager
Funnel went up and down multiple times.				
<p><b>A stationary surface boundary stretching through the James River Valley created an environment with enhanced surface vorticity. Although instability was modest and deep layer shear was weak, thunderstorms passing over this boundary developed multiple funnel clouds, and in two cases tornadoes. One tornado developed near the town of Pingree in Stutsman County, and another developed near the town of Cathay in Wells County. Both tornadoes were short lived and rated EF-0.</b></p>				
<b>MCKENZIE COUNTY --- 5.5 N WATFORD CITY [47.88, -103.28]</b>				
	06/21/19 11:20 MST		0	Funnel Cloud
	06/21/19 11:22 MST		0	Source: Law Enforcement
Several brief funnel clouds were observed in the area.				
<b>MOUNTRAIL COUNTY --- 6.2 S WHITE EARTH [48.29, -102.77]</b>				
	06/21/19 11:30 CST		0	Funnel Cloud
	06/21/19 11:32 CST		0	Source: Public
<p><b>Showers developed ahead of surface low pressure that was moving through northeast Montana. Multiple funnel clouds occurred over McKenzie and Mountrail counties with some of the showers.</b></p>				
<b>ROLETTE COUNTY --- 1.1 NW ROLLA [48.86, -99.62]</b>				
	06/24/19 12:23 CST		0	Funnel Cloud
	06/24/19 12:25 CST		0	Source: Emergency Manager
A funnel cloud formed over Rolla in the vicinity of a surface boundary with broad upper level cyclonic flow.				
<b>MORTON COUNTY --- 10.4 N GLEN ULLIN [46.97, -101.83]</b>				
	06/28/19 05:26 CST		0	Hail (1.00 in)
	06/28/19 05:30 CST		0	Source: Public
<b>MORTON COUNTY --- 6.9 S ST ANTHONY [46.52, -100.91]</b>				
	06/28/19 07:08 CST		30K	Hail (1.75 in)
	06/28/19 07:12 CST		0	Source: Public
Numerous windows were broken on vehicles and on buildings.				
<b>MORTON COUNTY --- 3.5 S FT RICE [46.47, -100.59]</b>				
	06/28/19 07:34 CST		0	Hail (0.88 in)
	06/28/19 07:37 CST		0	Source: Law Enforcement
<b>EMMONS COUNTY --- 0.8 NE STRASBURG [46.14, -100.16]</b>				
	06/28/19 08:20 CST		10K	Thunderstorm Wind (EG 56 kt)
	06/28/19 08:28 CST		0	Source: Trained Spotter
Tree branches of three inches in diameter were down in Strasburg.				
<p><b>Strong thunderstorms moved from Montana into southwest North Dakota during the early morning hours. As the thunderstorms moved east one became severe and continued into south central North Dakota. The largest hail reported was the size of golf balls, and fell south of St. Anthony in Morton County. The strongest wind gust reported was estimated at 65 mph, and occurred in Strasburg, Emmons County.</b></p>				
<b>WARD COUNTY --- 0.8 SSE (MIB)MINOT AFB [48.42, -101.36]</b>				
	06/29/19 04:57 CST		0	Thunderstorm Wind (MG 50 kt)
	06/29/19 05:01 CST		0	Source: ASOS
<b>BOTTINEAU COUNTY --- 6.5 SSE LANDA [48.81, -100.88]</b>				

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	06/29/19 05:20 CST		3K	Thunderstorm Wind (EG 56 kt)
	06/29/19 05:25 CST		0	Source: Public

A crab apple tree which was one foot in diameter blew down.

### ROLETTE COUNTY --- 0.8 SSW ROLETTE [48.66, -99.84]

06/29/19 06:34 CST	0	Hail (1.00 in)
06/29/19 06:37 CST	0	Source: Public

### PIERCE COUNTY --- 0.5 W WOLFORD [48.50, -99.71]

06/29/19 06:50 CST	10K	Thunderstorm Wind (EG 61 kt)
06/29/19 06:55 CST	0	Source: Trained Spotter

A tree of unknown diameter was split in half mid-way up the trunk. Multiple small and large branches were also broken.

### BOTTINEAU COUNTY --- LANSFORD [48.63, -101.37]

06/29/19 09:07 CST	0	Hail (1.00 in)
06/29/19 09:10 CST	0	Source: COOP Observer

Thunderstorms moved from northeast Montana into northwest North Dakota during the early morning hours, and continued to move east into north central North Dakota. Some of the thunderstorms became severe in an environment with enhanced instability and a strong low-level jet. The strongest reported wind gust was estimated at 70 mph and occurred in Pierce County, and the largest hail was the size of a quarter, and fell in Rolette and Bottineau counties.

### GRANT COUNTY --- 10.8 NNE ELGIN MUNI ARPT [46.55, -101.77], 5.3 NE LARK [46.50, -101.32]

06/29/19 18:13 MST	0.55M	Hail (3.00 in)
06/29/19 18:35 MST	0.35M	Source: Emergency Manager

A supercell thunderstorm passed over northern Grant County, producing very large hail up to three inches in diameter. Numerous farmers and ranchers sustained crop and property loss. Damage reports include a collapsed roof on a pole barn, holes punched in siding and roofs, extensive loss of structural and vehicle glass, extensive vehicle damage, tractor and farm equipment damage, and widespread crop losses.

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