

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
NORTH DAKOTA, Central and West				
SIoux COUNTY --- 0.7 N SELFRIDGE [46.04, -100.93]				
	07/02/19 14:28 MST	0		Hail (1.00 in)
	07/02/19 14:30 MST	0		Source: Public
HETTINGER COUNTY --- 5.6 ESE NEW ENGLAND [46.50, -102.74]				
	07/02/19 14:40 MST	0		Hail (1.75 in)
	07/02/19 14:43 MST	0		Source: Trained Spotter
HETTINGER COUNTY --- 8.1 W REGENT [46.43, -102.72]				
	07/02/19 14:53 MST	0		Hail (1.75 in)
	07/02/19 14:56 MST	0		Source: Public
HETTINGER COUNTY --- 2.1 SSW REGENT [46.39, -102.56]				
	07/02/19 15:15 MST	0		Hail (1.75 in)
	07/02/19 15:18 MST	0		Source: Public
SIoux COUNTY --- 5.5 SW FT YATES [46.03, -100.72]				
	07/02/19 15:20 MST	0		Hail (0.75 in)
	07/02/19 15:22 MST	0		Source: Public
GOLDEN VALLEY COUNTY --- 9.8 SE GOLVA [46.65, -103.81]				
	07/02/19 15:52 MST	0		Hail (1.50 in)
	07/02/19 15:55 MST	0		Source: Public
GOLDEN VALLEY COUNTY --- 13.5 SSE GOLVA [46.55, -103.87]				
	07/02/19 16:00 MST	0		Hail (1.00 in)
	07/02/19 16:02 MST	0		Source: Public
SIoux COUNTY --- 8.8 SW SOLEN [46.30, -100.93]				
	07/02/19 16:20 MST	0		Hail (0.88 in)
	07/02/19 16:24 MST	0		Source: Public
GRANT COUNTY --- 11.8 S NEW LEIPZIG [46.20, -101.95]				
	07/02/19 16:30 MST	0		Hail (2.00 in)
	07/02/19 16:33 MST	0		Source: Public
SLOPE COUNTY --- 8.1 WSW AMIDON [46.44, -103.48]				
	07/02/19 16:35 MST	0		Hail (1.00 in)
	07/02/19 16:37 MST	0		Source: Trained Spotter
STUTSMAN COUNTY --- 2.5 NE STREETER [46.68, -99.32]				
	07/02/19 18:03 CST	0		Hail (1.00 in)
	07/02/19 18:06 CST	0		Source: Public
ADAMS COUNTY --- 2.3 NNW HAYNES [46.00, -102.49]				
	07/02/19 18:15 MST	0		Hail (1.75 in)
	07/02/19 18:18 MST	0		Source: Public
BURLEIGH COUNTY --- 9.7 S MENOKEN [46.68, -100.53]				
	07/02/19 18:45 CST	0		Hail (1.00 in)
	07/02/19 18:47 CST	0		Source: Public
GRANT COUNTY --- 14.5 S NEW LEIPZIG [46.16, -101.93]				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/02/19 18:50 MST		0	Hail (0.88 in)
	07/02/19 18:53 MST		0	Source: Trained Spotter
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STUTSMAN COUNTY --- 7.3 SSE WINDSOR [46.80, -98.98]				
	07/02/19 18:55 CST		75K	Hail (2.00 in)
	07/02/19 18:59 CST		0.10M	Source: Public
<p>Extensive crop and tree damage occurred, with almost all leaves in the tree row shredded. Holes were punched in gutters and wood shake siding was shredded.</p>				
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STUTSMAN COUNTY --- 0.8 NW JAMESTOWN [46.91, -98.71]				
	07/02/19 19:20 CST		0	Hail (1.00 in)
	07/02/19 19:22 CST		0	Source: Broadcast Media
<p>A west to east orientated cold front slowly moving to the south became the focus for thunderstorm development. Initially, discrete supercell thunderstorms formed along the frontal boundary. Later on, a north to south orientated mesoscale convective complex formed over eastern Montana and moved across southern North Dakota. Large hail was the prevailing hazard with the thunderstorms. Two inch diameter hail was the largest reported, and fell in both Stutsman and Grant counties.</p>				
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KIDDER COUNTY --- 5.5 N TAPPEN [46.95, -99.61]				
	07/03/19 16:32 CST		0	Hail (1.00 in)
	07/03/19 16:35 CST		0	Source: Public
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STUTSMAN COUNTY --- 2.9 ENE WINDSOR [46.91, -98.97]				
	07/03/19 17:35 CST		0	Thunderstorm Wind (EG 52 kt)
	07/03/19 17:38 CST		0	Source: Public
<p>The public estimated thunderstorm wind gusts of 60 mph.</p>				
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LA MOURE COUNTY --- 3.9 ESE LA MOURE [46.32, -98.23]				
	07/03/19 20:12 CST		0	Hail (1.00 in)
	07/03/19 20:15 CST		0	Source: Public
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LA MOURE COUNTY --- 0.8 SE LA MOURE [46.34, -98.29]				
	07/03/19 20:59 CST		0	Hail (1.00 in)
	07/03/19 21:04 CST		0	Source: Emergency Manager
<p>Thunderstorms developed along a frontal boundary over central North Dakota, and moved into a region of enhanced instability and ample deep layer shear for some storms to become severe. The largest hail reported was the size of a quarter, which fell in Kidder and LaMoure counties. The strongest thunderstorm wind gust reported was 60 mph and occurred in Stutsman County.</p>				
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STARK COUNTY --- 4.8 S (DIK)DICKINSON MUNI [46.73, -102.80]				
	07/08/19 12:25 MST		0	Hail (1.00 in)
	07/08/19 12:28 MST		0	Source: Trained Spotter
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STARK COUNTY --- 7.1 ESE (DIK)DICKINSON MUNI [46.75, -102.67]				
	07/08/19 12:45 MST		0	Hail (1.00 in)
	07/08/19 12:50 MST		0	Source: Public
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MERCER COUNTY --- 1.5 NW HAZEN [47.32, -101.65], 1.5 NNW HAZEN [47.32, -101.64]				
	07/08/19 12:52 CST		0	Tornado (EF0, L: 0.61 mi , W: 50 yd)
	07/08/19 12:54 CST		0	Source: Public
<p>The tornado touched down north of Hazen, and based on the very minor damage that occurred was rated EF-0.</p>				
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STARK COUNTY --- 5.9 SE (DIK)DICKINSON MUNI [46.74, -102.71]				
	07/08/19 13:00 MST		0	Hail (1.00 in)
	07/08/19 13:05 MST		0	Source: Public
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SHERIDAN COUNTY --- 11.4 WSW MARTIN [47.77, -100.35], 10.9 WSW MARTIN [47.77, -100.34]				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/08/19 13:46 CST		0	Tornado (EF0, L: 0.53 mi , W: 50 yd)
	07/08/19 13:48 CST		0	Source: Law Enforcement
The tornado touched down in northern Sheridan County west of Martin, and based on the very minor damage that occurred was rated EF-0.				
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MCLEAN COUNTY --- 4.2 E UNDERWOOD [47.45, -101.04]				
	07/08/19 14:15 CST		0	Hail (1.50 in)
	07/08/19 14:19 CST		0	Source: Public
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MCLEAN COUNTY --- 0.5 E TURTLE LAKE [47.52, -100.89]				
	07/08/19 14:35 CST		0	Hail (0.88 in)
	07/08/19 14:39 CST		0	Source: Public
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WELLS COUNTY --- 1.9 W HARVEY [47.77, -99.94]				
	07/08/19 15:00 CST		0	Hail (0.88 in)
	07/08/19 15:03 CST		0	Source: Public
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OLIVER COUNTY --- 12.7 SW HANNOVER [46.99, -101.62]				
	07/08/19 15:10 CST		0	Hail (1.00 in)
	07/08/19 15:14 CST		0	Source: Public
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MORTON COUNTY --- 7.1 E GLEN ULLIN [46.82, -101.68]				
	07/08/19 15:20 CST		0	Hail (1.00 in)
	07/08/19 15:23 CST		0	Source: Public
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MORTON COUNTY --- 4.4 NNE ST ANTHONY [46.68, -100.89]				
	07/08/19 15:50 CST		0	Hail (1.00 in)
	07/08/19 15:54 CST		0	Source: Trained Spotter
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BURLEIGH COUNTY --- 2.5 SW (BIS)BISMARCK MUNI A [46.75, -100.78]				
	07/08/19 16:00 CST		0	Hail (1.75 in)
	07/08/19 16:03 CST		0	Source: Public
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BURLEIGH COUNTY --- 3.5 S (BIS)BISMARCK MUNI A [46.73, -100.74]				
	07/08/19 16:00 CST		0	Hail (1.50 in)
	07/08/19 16:03 CST		0	Source: CoCoRaHS
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DIVIDE COUNTY --- 7.3 NW FORTUNA [48.99, -103.82]				
	07/08/19 16:00 CST		0	Thunderstorm Wind (EG 52 kt)
	07/08/19 16:02 CST		0	Source: Public
The public estimated thunderstorm wind gusts of 60 mph.				
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MORTON COUNTY --- 7.5 ENE FLASHER [46.50, -101.09]				
	07/08/19 16:05 CST		0	Hail (1.75 in)
	07/08/19 16:08 CST		25K	Source: Public
Crop damage occurred with the large hail.				
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BURLEIGH COUNTY --- 3.1 SW (BIS)BISMARCK MUNI A [46.75, -100.80]				
	07/08/19 16:12 CST		0	Hail (1.00 in)
	07/08/19 16:14 CST		0	Source: NWS Employee
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WELLS COUNTY --- 1.7 SE HEATON [47.46, -99.51]				
	07/08/19 16:14 CST		0	Thunderstorm Wind (EG 52 kt)
	07/08/19 16:17 CST		0	Source: Trained Spotter
A trained spotter estimated thunderstorm wind gusts of 60 mph.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
BURLEIGH COUNTY --- 4.0 NW BISMARCK [46.85, -100.82], 3.9 NE BISMARCK [46.84, -100.72], 2.2 E (BIS)BISMARCK MUNI A [46.77, -100.70], 1.9 WSW (BIS)BISMARCK MUNI A [46.77, -100.79]				
	07/08/19 16:30 CST		50K	Flash Flood (due to Heavy Rain)
	07/08/19 18:30 CST		0	Source: NWS Employee
Heavy rain occurred in Bismarck, with up to two inches of rain falling in parts of the city in 30 minutes. Water was flowing over curbs in many locations, and in parts of south Bismarck buildings in lower lying areas took on water in their basements. Two feet of rushing water through some streets caused dangerous driving conditions.				
DIVIDE COUNTY --- 17.2 SSW CROSBY [48.68, -103.38]				
	07/08/19 16:30 CST		0	Hail (1.75 in)
	07/08/19 16:34 CST		0	Source: Public
BURLEIGH COUNTY --- 3.4 ESE (BIS)BISMARCK MUNI A [46.77, -100.68]				
	07/08/19 16:46 CST		0	Hail (1.00 in)
	07/08/19 16:49 CST		0	Source: NWS Employee
EMMONS COUNTY --- 14.2 WSW WESTFIELD [45.94, -100.47], 19.6 WNW WESTFIELD [46.09, -100.60], 5.0 SW TEMVIK [46.32, -100.32], 10.3 ENE LINTON [46.32, -100.02], 6.3 SSE HAGUE [45.94, -99.95]				
	07/08/19 23:00 CST		40K	Flash Flood (due to Heavy Rain)
	07/09/19 03:00 CST		0	Source: Law Enforcement
Between five and six inches of rain fell over parts of southern Emmons County. This led to deep water running over sections of U.S. Highway 83, blocking the highway. There were wash outs on some county roads.				
SIoux COUNTY --- 10.7 SSE FT YATES [45.94, -100.52], 6.2 SSE SELFRIDGE [45.94, -100.90], 7.3 ENE SELFRIDGE [46.08, -100.79], 1.5 NNW FT YATES [46.10, -100.64]				
	07/08/19 23:00 MST	2	0.75M	Flash Flood (due to Heavy Rain)
	07/09/19 03:00 MST	2	0	Source: Emergency Manager
Flash flooding resulted in a section of BIA Road 3, locally known as the Kenel Road which connects with ND Highway 1806, being washed out at the crossing with Joe Bush Creek. The culvert washed out and the road collapsed. Four vehicles drove into the washout and resulted in two fatalities and two injuries.				
Direct Fatalities: M65VE, F60VE				
<p>A surface boundary stretching from southwest into north central North Dakota served as the primary focal point for thunderstorm development in an atmosphere of very high instability. Initially, large hail was the main threat, though a couple of tornadoes developed in an area of enhanced low level shear. Later, storms mainly developed along an old outflow boundary and were slow moving. This combined with a moisture rich atmosphere which led to a heavy rain threat, in addition to a hail and strong wind threat. The heaviest rain fell over Sioux and Emmons counties, where there were multiple reports of over four inches of rain. In Sioux County, on the Standing Rock Nation, flash flooding from the heavy rain resulted in a section of BIA Road 3, locally known as the Kenel Road, being washed out at the crossing with Joe Bush Creek. The culvert washed out and the road collapsed. Four vehicles drove into the washout and resulted in two fatalities and two injuries. The largest hail reported in this episode was golf ball size, and fell in Divide, Morton, and Burleigh counties. The strongest wind gusts were 60 mph, and occurred in Wells and Divide counties.</p>				
STUTSMAN COUNTY --- 2.3 NNW (JMS)JAMESTOWN MUNI [46.96, -98.70]				
	07/12/19 00:28 CST		0	Hail (1.25 in)
	07/12/19 00:31 CST		0	Source: Public
Isolated thunderstorms developed over parts of the James River Valley, along a cold front, during the predawn hours. One thunderstorm became severe near Jamestown, producing half-dollar size hail.				
DIVIDE COUNTY --- 10.2 SSW ALKABO [48.73, -103.94]				
	07/12/19 18:07 CST		0	Thunderstorm Wind (MG 51 kt)
	07/12/19 18:09 CST		0	Source: Mesonet
STARK COUNTY --- 1.2 SW LEFOR [46.67, -102.57]				
	07/12/19 19:35 MST		0	Hail (1.75 in)
	07/12/19 19:38 MST		0	Source: Trained Spotter

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
WILLIAMS COUNTY --- 2.0 SE TIOGA [48.38, -102.90]				
	07/12/19 19:35 CST		0	Thunderstorm Wind (MG 59 kt)
	07/12/19 19:38 CST		0	Source: AWOS
WILLIAMS COUNTY --- 4.2 S TIOGA [48.34, -102.94]				
	07/12/19 19:40 CST		2K	Thunderstorm Wind (EG 61 kt)
	07/12/19 19:43 CST		0	Source: Trained Spotter
An eight inch diameter tree branch was broken.				
HETTINGER COUNTY --- 0.8 NW MOTT [46.39, -102.33]				
	07/12/19 20:24 MST		0	Thunderstorm Wind (MG 78 kt)
	07/12/19 20:30 MST		0	Source: Mesonet
The wind gust was measured as a tornado passed to the east of the NDAWN (North Dakota Agricultural Weather Network) sensor located on the north side of Mott, just off the west side of ND Highway 8. These winds may have been in conjunction with a rear-flank downdraft.				
HETTINGER COUNTY --- 1.8 NW MOTT [46.40, -102.34], 1.1 SE MOTT [46.37, -102.30]				
	07/12/19 20:24 MST		1.60M	Tornado (EF1, L: 2.90 mi , W: 200 yd)
	07/12/19 20:32 MST		0	Source: Law Enforcement
The tornado touched down roughly two miles north-northwest of Mott, and tracked to the south-southeast before lifting about one mile east-southeast of town, having passed through the northeast corner of the city. Extensive tree damage occurred in Mott, mostly from high winds associated with the Rear-Flank Downdraft of the tornado. Farm bins were torn from their foundations, a shed was destroyed, and a very large building on the fairgrounds was collapsed. Near the intersection of ND Highway 8 and 21 the roof was torn from a storage facility. A house just east of there, along ND Highway 21, had the attached garage shifted off its foundation and collapsed. Based on the damage done this tornado was rated EF1 with estimated wind speeds around 105 mph.				
MOUNTRAIL COUNTY --- 0.5 W STANLEY MUNI ARPT [48.30, -102.41]				
	07/12/19 20:32 CST		0	Thunderstorm Wind (EG 52 kt)
	07/12/19 20:34 CST		0	Source: Trained Spotter
Thunderstorm wind gusts were estimated by a trained spotter.				
ADAMS COUNTY --- 24.8 ENE HAYNES [46.16, -102.03]				
	07/12/19 21:15 MST		0	Hail (1.00 in)
	07/12/19 21:20 MST		25K	Source: Public
Extensive crop damage occurred with the hail.				
MERCER COUNTY --- 10.4 S BEULAH [47.12, -101.78]				
	07/12/19 21:20 CST		0	Hail (1.00 in)
	07/12/19 21:23 CST		0	Source: Public
OLIVER COUNTY --- 6.6 WNW HANNOVER [47.17, -101.55]				
	07/12/19 21:25 CST		0	Hail (1.00 in)
	07/12/19 21:26 CST		0	Source: Trained Spotter
HETTINGER COUNTY --- 9.1 WSW REGENT [46.36, -102.72]				
	07/12/19 23:10 MST		0	Hail (1.00 in)
	07/12/19 23:13 MST		0	Source: Trained Spotter
BURLEIGH COUNTY --- 3.8 W REGAN [47.16, -100.61]				
	07/13/19 00:20 CST		0.25M	Thunderstorm Wind (EG 78 kt)
	07/13/19 00:26 CST		0.10M	Source: Emergency Manager

Straight line winds severely damaged five large steel grain bins at a farm site. A separate hopper-style bin was rolled into a field. In addition, half of the roof on a new pole barn shop was torn off with insulation blown out. Crops in the area were also severely damaged.

A surface trough over eastern Montana nudging into western North Dakota served as the focus for thunderstorm development in a highly sheared environment. Initial severe thunderstorms moved into northwest North Dakota from Montana, with additional

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
development following over southwest North Dakota. A tornado developed over Hettinger County and struck the northeast part of the city of Mott, causing damage that corresponded to EF1. Most of the severe weather remained over western North Dakota, though a late night severe storm developed over northern Burleigh County, causing extensive wind damage to a farmstead near the city of Regan. During this episode, the largest hail reported was golf ball size and fell in Stark County. The strongest wind gusts were 90 mph, and occurred in Hettinger and Burleigh counties.				
BURKE COUNTY --- 11.9 ESE NORTHGATE [48.91, -102.03]				
	07/13/19 17:15 CST	0		Hail (1.75 in)
	07/13/19 17:18 CST	0		Source: Trained Spotter
RENVILLE COUNTY --- 8.1 NW TOLLEY [48.81, -101.95]				
	07/13/19 17:46 CST	0		Hail (1.50 in)
	07/13/19 17:48 CST	0		Source: Public
RENVILLE COUNTY --- 4.2 N TOLLEY [48.79, -101.83]				
	07/13/19 17:54 CST	0		Hail (0.88 in)
	07/13/19 17:56 CST	0		Source: Storm Chaser
A severe thunderstorm over southern Saskatchewan moved into northwestern North Dakota during the afternoon hours. This storm was tornadic on the Canadian side of the international border, but became non-tornadic shortly before crossing into North Dakota. The largest hail report from the storm was golf ball size, and occurred in Burke County.				
SLOPE COUNTY --- 13.7 NNW MARMARTH [46.48, -104.02]				
	07/14/19 22:35 MST	0		Thunderstorm Wind (MG 55 kt)
	07/14/19 22:37 MST	0		Source: Mesonet
BILLINGS COUNTY --- 2.5 NE FRYBURG [46.90, -103.29]				
	07/14/19 22:45 MST	0		Thunderstorm Wind (MG 50 kt)
	07/14/19 22:47 MST	0		Source: Mesonet
STARK COUNTY --- (DIK)DICKINSON MUNI [46.80, -102.80]				
	07/14/19 23:04 MST	0		Thunderstorm Wind (MG 67 kt)
	07/14/19 23:06 MST	0		Source: ASOS
STARK COUNTY --- 2.5 WNW DICKINSON [46.89, -102.83]				
	07/14/19 23:14 MST	0		Thunderstorm Wind (MG 67 kt)
	07/14/19 23:16 MST	0		Source: Public
DUNN COUNTY --- 5.1 SW MANNING [47.18, -102.85]				
	07/14/19 23:20 MST	0		Thunderstorm Wind (MG 56 kt)
	07/14/19 23:22 MST	0		Source: Mesonet
STARK COUNTY --- GLADSTONE [46.87, -102.55]				
	07/14/19 23:25 MST	0		Thunderstorm Wind (MG 59 kt)
	07/14/19 23:27 MST	0		Source: Mesonet
MERCER COUNTY --- 1.5 NNE GOLDEN VLY [47.30, -102.06]				
	07/15/19 00:55 CST	0		Thunderstorm Wind (MG 57 kt)
	07/15/19 00:57 CST	0		Source: Mesonet
MORTON COUNTY --- 1.6 WSW GLEN ULLIN [46.81, -101.86]				
	07/15/19 01:02 CST	0		Thunderstorm Wind (MG 56 kt)
	07/15/19 01:04 CST	0		Source: AWOS

An approaching short-wave trough pushing through Montana resulted in a line of thunderstorms producing strong wind gusts in a highly unstable environment. These storms moved into southwest North Dakota during the late night hours and continued to push east towards south central North Dakota before decreasing in strength. Many of the high wind reports occurred well ahead of the precipitation. The highest reported wind gusts of 77 mph occurred near Dickinson in Stark County.

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GRANT COUNTY --- 13.8 SSE NEW LEIPZIG [46.18, -101.86]				
	07/16/19 17:20 MST	0		Hail (1.00 in)
	07/16/19 17:22 MST	0		Source: COOP Observer
SIoux COUNTY --- 30.7 W SELFRIDGE [46.01, -101.57]				
	07/16/19 18:17 MST	0		Hail (1.00 in)
	07/16/19 18:19 MST	0		Source: Public
HETTINGER COUNTY --- 5.3 NE REGENT [46.48, -102.48]				
	07/16/19 19:18 MST	0		Hail (1.75 in)
	07/16/19 19:21 MST	0		Source: Trained Spotter
HETTINGER COUNTY --- 0.8 SW MOTT [46.37, -102.33]				
	07/16/19 20:17 MST	0		Hail (1.00 in)
	07/16/19 20:20 MST	0		Source: Law Enforcement
<p>A short wave trough pushing through the Northern Plains encountered enhanced instability over southwest North Dakota. This resulted in severe thunderstorms producing large hail over the southwest part of the state. The largest hail was the size of golf balls, and fell over Hettinger County.</p>				
HETTINGER COUNTY --- 2.1 SSW BURT [46.34, -102.16]				
	07/17/19 15:05 MST	0		Hail (1.00 in)
	07/17/19 15:08 MST	0		Source: Public
STARK COUNTY --- 7.5 NE SOUTH HEART [46.96, -102.91]				
	07/17/19 17:00 MST	0		Hail (1.25 in)
	07/17/19 17:02 MST	0		Source: Public
STARK COUNTY --- 2.1 NNE DICKINSON [46.91, -102.77]				
	07/17/19 17:10 MST	0		Thunderstorm Wind (EG 56 kt)
	07/17/19 17:13 MST	0		Source: Public
<p>The public estimated thunderstorm wind gusts to 65 mph.</p>				
SIoux COUNTY --- 19.7 W SELFRIDGE [46.05, -101.34]				
	07/17/19 17:17 MST	0		Hail (1.00 in)
	07/17/19 17:19 MST	0		Source: Public
GRANT COUNTY --- 13.8 SSE NEW LEIPZIG [46.18, -101.86]				
	07/17/19 17:20 MST	0		Hail (1.00 in)
	07/17/19 17:22 MST	0		Source: COOP Observer
SIoux COUNTY --- 3.7 SW FT YATES [46.04, -100.68]				
	07/17/19 17:30 MST	0		Hail (1.00 in)
	07/17/19 17:32 MST	0		Source: Trained Spotter
STARK COUNTY --- 2.8 NE GLADSTONE [46.90, -102.51]				
	07/17/19 17:33 MST	0		Hail (1.50 in)
	07/17/19 17:38 MST	0		Source: Mesonet
STARK COUNTY --- TAYLOR [46.90, -102.42]				
	07/17/19 17:38 MST	0		Hail (1.25 in)
	07/17/19 17:41 MST	0		Source: Public
STARK COUNTY --- TAYLOR [46.90, -102.42]				
	07/17/19 17:38 MST	0		Thunderstorm Wind (EG 61 kt)
	07/17/19 17:41 MST	0		Source: Public

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The public estimated thunderstorm wind gusts to 70 mph.				
BOTTINEAU COUNTY --- 0.5 E NEWBURG [48.72, -100.91]				
	07/17/19 18:30 CST	0		Hail (1.25 in)
	07/17/19 18:34 CST	0		Source: Trained Spotter
BOTTINEAU COUNTY --- 3.1 NE RUSSELL [48.70, -100.85]				
	07/17/19 18:30 CST	0		Hail (1.25 in)
	07/17/19 18:33 CST	0		Source: Public
BOTTINEAU COUNTY --- 3.1 NE RUSSELL [48.70, -100.85]				
	07/17/19 18:35 CST	0		Hail (1.25 in)
	07/17/19 18:38 CST	0		Source: Public
BOTTINEAU COUNTY --- 2.7 WSW BOTTINEAU [48.81, -100.48]				
	07/17/19 19:06 CST	0		Hail (1.75 in)
	07/17/19 19:09 CST	0		Source: Trained Spotter
BOTTINEAU COUNTY --- 2.7 WSW BOTTINEAU [48.81, -100.48]				
	07/17/19 19:06 CST	0		Thunderstorm Wind (EG 61 kt)
	07/17/19 19:09 CST	0		Source: Trained Spotter
A trained spotter estimated thunderstorm wind gusts to 70 mph.				
MORTON COUNTY --- 0.5 E ST ANTHONY [46.62, -100.91]				
	07/17/19 20:54 CST	0		Hail (1.50 in)
	07/17/19 20:57 CST	0		Source: Trained Spotter
MORTON COUNTY --- 1.2 SE ST ANTHONY [46.61, -100.90]				
	07/17/19 20:54 CST	0		Hail (1.50 in)
	07/17/19 20:56 CST	0		Source: Public
<p>Multiple short-wave troughs passing through the area resulted in thunderstorm development. Adequate instability and shear were present for some thunderstorms to become severe. The largest hail reported was the size of golf balls, and fell in Bottineau County. The strongest thunderstorm wind gusts reported were 70 mph, and occurred in both Stark and Bottineau counties.</p>				
WELLS COUNTY --- 4.5 SSW HURDSFIELD [47.39, -99.94]				
	07/21/19 13:30 CST	0		Funnel Cloud
	07/21/19 13:32 CST	0		Source: Law Enforcement
WARD COUNTY --- 2.1 NNW (MOT)MINOT INTL ARPT [48.30, -101.29]				
	07/21/19 14:35 CST	0		Funnel Cloud
	07/21/19 14:38 CST	0		Source: Public
<p>Rain showers and a few thunderstorms developed over North Dakota in broad cyclonic flow aloft. Funnel clouds were reported in Wells County and in Ward County.</p>				
BILLINGS COUNTY --- 15.2 S FRYBURG [46.65, -103.30]				
	07/31/19 15:53 MST	0		Hail (1.00 in)
	07/31/19 15:55 MST	0		Source: Public
DUNN COUNTY --- 7.2 NNW DUNN CENTER [47.45, -102.67]				
	07/31/19 16:20 MST	0		Hail (1.00 in)
	07/31/19 16:23 MST	0		Source: Public
MOUNTRAIL COUNTY --- 4.2 S SANISH [47.92, -102.57]				
	07/31/19 17:15 CST	0		Hail (1.00 in)
	07/31/19 17:18 CST	0		Source: Trained Spotter

Storm Data and Unusual Weather Phenomena - July 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MOUNTRAIL COUNTY --- 5.5 S SANISH [47.90, -102.58]				
	07/31/19 17:18 CST	0		Hail (1.50 in)
	07/31/19 17:21 CST	0		Source: Trained Spotter
DUNN COUNTY --- 5.1 SW MANNING [47.18, -102.85]				
	07/31/19 18:07 MST	0		Thunderstorm Wind (EG 56 kt)
	07/31/19 18:10 MST	0		Source: Public
The public reported thunderstorm wind gusts to 65 mph.				
MOUNTRAIL COUNTY --- 10.6 W BELDEN [48.16, -102.58]				
	07/31/19 18:27 CST	0		Hail (1.50 in)
	07/31/19 18:30 CST	0		Source: Public
MOUNTRAIL COUNTY --- 4.4 NW BELDEN ARPT [48.22, -102.39]				
	07/31/19 19:05 CST	0		Hail (1.00 in)
	07/31/19 19:06 CST	0		Source: Public
RENVILLE COUNTY --- 6.9 W GLENBURN [48.52, -101.37]				
	07/31/19 19:35 CST	0		Hail (1.00 in)
	07/31/19 19:40 CST	0		Source: Trained Spotter
WARD COUNTY --- 2.4 WNW DONNYBROOK [48.53, -101.92]				
	07/31/19 19:44 CST	0		Hail (1.00 in)
	07/31/19 19:47 CST	0		Source: Public
WARD COUNTY --- 2.0 ENE (MIB)MINOT AFB [48.44, -101.33]				
	07/31/19 20:10 CST	0		Hail (1.00 in)
	07/31/19 20:13 CST	0		Source: Public

A surface low pressure system and frontal boundary moving easterly served as the focus for thunderstorm development. Some thunderstorms became severe over western and north central North Dakota in elevated instability. The largest hail reported was the size of ping pong balls, and fell in Mountrail County. The strongest thunderstorm wind gust reported was 65 mph, and occurred in Dunn County.