

Storm Data and Unusual Weather Phenomena - June 2013

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

MCHENRY COUNTY --- 4.4 WSW VELVA [48.05, -101.02], 2.3 SE VELVA [48.05, -100.89], 2.1 NNE VELVA [48.10, -100.92], 5.4 NW VELVA [48.12, -101.02]

06/01/13 00:00 CST	45K	Flood (due to Heavy Rain / Snow Melt)
06/19/13 18:00 CST	0	Source: Emergency Manager

This river flooding was in part a continuation from the spring flooding that began in April and continued through May and into June. Some river points remained above flood stage through this period. The heavy rains through May and into June kept high water flowing through the system.

WARD COUNTY --- 2.0 ENE FOXHOLM [48.38, -101.53], 4.4 WSW MINOT [48.21, -101.37], 2.5 SE SAWYER [48.05, -101.02], 3.1 NNE SAWYER [48.12, -101.02], 2.4 WNW SURREY [48.24, -101.18], 4.6 E FOXHOLM [48.38, -101.47]

06/01/13 00:00 CST	75K	Flood (due to Heavy Rain / Snow Melt)
06/19/13 18:00 CST	0	Source: Emergency Manager

This river flooding was in part a continuation from the spring flooding that began in April and continued through May and into June. Some river points remained above flood stage through this period. The heavy rains through May and into June kept high water flowing through the system.

BOTTINEAU COUNTY --- 5.0 NNW WESTHOPE [48.99, -101.05], 6.2 N LANDA [48.99, -100.91], 2.1 SSW KRAMER [48.67, -100.71], 3.2 E RUSSELL [48.67, -100.83]

06/06/13 00:00 CST	0.53M	Flood (due to Heavy Rain / Snow Melt)
06/22/13 20:00 CST	0	Source: Emergency Manager

This flooding, along the Souris (Mouse) River, was in part due to earlier snow melt runoff and releases from upstream dams reaching this part of Bottineau County. Heavy rains in June added to the high water. Damage was reported to roads and bridges.

A late season rapid snow melt caused flooding along the Souris (Mouse) River and Des Lacs River through north central North Dakota. Additionally, there were necessary releases from upstream dams in North Dakota and Saskatchewan, Canada, due to rapid snow melt there and additional heavy rains in May and early June. This caused the flooding to continue. Homes in the Project Road area near Burlington took on water. Many county and township roads near the river were damaged. This flood began in April and continued through May and into June as spring rains added water to the basin.

BOWMAN COUNTY --- 16.8 SSW RHAME [46.01, -103.80]

06/03/13 14:35 MST	0	Hail (1.00 in)
06/03/13 14:40 MST	0	Source: Trained Spotter

BOWMAN COUNTY --- 0.8 SW BOWMAN ARPT [46.17, -103.43], 0.8 SSW BOWMAN ARPT [46.17, -103.43]

06/03/13 15:15 MST	0	Tornado (EF0, L: 0.03 mi , W: 20 yd)
06/03/13 15:16 MST	0	Source: Trained Spotter

Brief tornado touchdown near Bowman, reported by North Dakota State Water Commission. There were no reports of damage so the tornado was rated EF0.

GOLDEN VALLEY COUNTY --- 15.7 ESE GOLVA [46.67, -103.66], 15.7 ESE GOLVA [46.67, -103.66]

06/03/13 16:20 MST	5K	Tornado (EF0, L: 0.02 mi , W: 20 yd)
06/03/13 16:21 MST	0	Source: Public

The tornado knocked down six inch in diameter trees on a rural ranch. This tornado was rated as EF0 with estimated wind speeds around 75 mph.

ADAMS COUNTY --- 8.7 NE BUCYRUS [46.15, -102.64], 8.9 NE BUCYRUS [46.15, -102.63]

06/03/13 17:05 MST	0	Tornado (EF0, L: 0.26 mi , W: 30 yd)
06/03/13 17:07 MST	0	Source: Law Enforcement

This tornado touched down briefly in open country north of the city of Hettinger. No damage was reported so this tornado was rated EF0.

Clearing skies in the afternoon of the 3rd over southwestern North Dakota resulted in increasing instability in the late afternoon and early evening, and led to discrete non-supercellular thunderstorms developing along a weak surface boundary. Vertically stacked low pressure over eastern Montana generating strong low level wind shear across southwestern North Dakota resulting in several brief weak tornadoes with these storms. All of the tornadoes were rated as EF0.

DIVIDE COUNTY --- 7.3 NNE WESTBY [48.97, -104.00]

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	06/09/13 19:56 CST		0	Thunderstorm Wind (MG 51 kt)
	06/09/13 20:01 CST		0	Source: Mesonet
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MOUNTRAIL COUNTY --- 0.5 W STANLEY [48.32, -102.39]				
	06/09/13 22:00 CST		0	Hail (0.75 in)
	06/09/13 22:05 CST		0	Source: Trained Spotter
<p>Scattered thunderstorms formed along a southeastward advancing cold front over northwest North Dakota during the evening of the 9th. These storms produced severe thunderstorm wind and non-severe hail.</p>				
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WILLIAMS COUNTY --- 0.5 W WILLISTON [48.15, -103.63]				
	06/14/13 12:20 CST		0	Thunderstorm Wind (MG 51 kt)
	06/14/13 12:20 CST		0	Source: Post Office
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WILLIAMS COUNTY --- 0.5 W WILLISTON [48.15, -103.63]				
	06/14/13 14:38 CST		0	Thunderstorm Wind (MG 51 kt)
	06/14/13 14:48 CST		0	Source: ASOS
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DIVIDE COUNTY --- 4.2 NE WESTBY [48.91, -103.98]				
	06/14/13 15:10 CST		0	Thunderstorm Wind (MG 54 kt)
	06/14/13 15:15 CST		0	Source: RAWs
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DIVIDE COUNTY --- 1.1 SW CROSBY [48.91, -103.30]				
	06/14/13 15:30 CST		0	Thunderstorm Wind (EG 52 kt)
	06/14/13 15:35 CST		0	Source: Trained Spotter
Pea size hail accompanied the strong winds.				
<p>Isolated severe thunderstorms over northeast Montana morphed into a line of storms and moved east during the mid to late afternoon into northwest North Dakota. Severe thunderstorm winds were generated with this line of storms before the line dissipated shortly after moving into North Dakota.</p>				
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LOGAN COUNTY --- 0.7 N NAPOLEON [46.51, -99.77]				
	06/17/13 18:24 CST		0	Hail (0.88 in)
	06/17/13 18:29 CST		0	Source: Law Enforcement
An isolated thunderstorm produced nickel size hail in Logan County.				
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DICKEY COUNTY --- 1.0 SSW GUELPH [46.01, -98.24]				
	06/19/13 22:05 CST		0	Hail (1.00 in)
	06/19/13 22:10 CST		15K	Source: Emergency Manager
Crop damage from hail was reported.				
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DICKEY COUNTY --- 4.2 SSW CLEMENT [46.10, -98.29]				
	06/19/13 22:20 CST		0	Hail (1.00 in)
	06/19/13 22:30 CST		15K	Source: Emergency Manager
Crop damage from hail was reported.				
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STUTSMAN COUNTY --- 5.0 S ELDRIDGE [46.83, -98.83]				
	06/19/13 23:00 CST		0	Hail (1.00 in)
	06/19/13 23:05 CST		25K	Source: Emergency Manager
Crop damage reported south of Eldridge and south of Interstate 94.				
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DICKEY COUNTY --- 6.3 E ELLENDALE [46.01, -98.39], 3.4 E LUDDEN [45.99, -98.06], 1.2 NNW GLOVER [46.25, -98.14], 6.9 NNE FULLERTON [46.26, -98.36]				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/20/13 00:00 CST		20K	Flash Flood (due to Heavy Rain)
	06/20/13 03:30 CST		25K	Source: Emergency Manager
Fast moving water damaged roads and shoulders. Two County roads were closed. Rain reports ranged from 2.72 inches to nearly five inches.				
STUTSMAN COUNTY --- 1.8 SW ELDRIDGE [46.88, -98.85], 2.5 WNW MILLARTON [46.69, -98.80], 1.3 NNW MILLARTON [46.69, -98.76], 1.3 SSE ELDRIDGE [46.88, -98.82]				
	06/20/13 00:00 CST		10K	Flash Flood (due to Heavy Rain)
	06/20/13 05:00 CST		20K	Source: Emergency Manager
Two Township roads were reported washed out south of Eldridge and south of Interstate 94. Rain reports ranged from just over two inches to nearly four inches.				
LA MOURE COUNTY --- 2.0 E JUD [46.52, -98.84], 2.4 S NORTONVILLE [46.52, -98.74], 5.3 S NORTONVILLE [46.47, -98.73], 3.5 SSE JUD [46.48, -98.84]				
	06/20/13 02:00 CST		6K	Flash Flood (due to Heavy Rain)
	06/20/13 04:00 CST		10K	Source: Emergency Manager
Township roads closed due to water over the roads. Rain reports from across the county ranged from nearly three inches to as much as 7.50 inches.				
LA MOURE COUNTY --- 5.8 SSE BERLIN [46.31, -98.42], 4.8 S BERLIN [46.31, -98.48], 1.6 N BERLIN [46.40, -98.47], 3.6 ENE BERLIN [46.41, -98.42]				
	06/20/13 02:00 CST		15K	Flash Flood (due to Heavy Rain)
	06/20/13 04:00 CST		25K	Source: Emergency Manager
Township roads closed due to water over the roads. Rain reports across the county ranged from around three inches to as much as 7.50 inches.				
WELLS COUNTY --- 4.2 E CHASELEY [47.46, -99.71], 8.9 SE CHASELEY [47.35, -99.68], 7.2 SSE SYKESTON [47.37, -99.35], 2.3 E SYKESTON [47.47, -99.33]				
	06/20/13 02:50 CST		4K	Flash Flood (due to Heavy Rain)
	06/20/13 05:10 CST		10K	Source: Emergency Manager
Several county roads were reported to be under water. Rain reports ranged from an inch and a half to nearly three inches.				
Very high atmospheric moisture and weak upper level flow led to slow moving and training thunderstorms across the James River Valley early in the morning of the 20th. The heavy rain resulted in flash flooding.				
EMMONS COUNTY --- 9.0 S KINTYRE [46.42, -99.95]				
	06/20/13 16:23 CST		0	Hail (1.00 in)
	06/20/13 16:28 CST		0	Source: Trained Spotter
BURLEIGH COUNTY --- 2.0 WNW DRISCOLL [46.86, -100.17]				
	06/20/13 16:45 CST		0	Hail (1.00 in)
	06/20/13 16:50 CST		0	Source: Trained Spotter
EMMONS COUNTY --- 3.1 SSW KINTYRE [46.51, -99.98]				
	06/20/13 16:45 CST		0	Hail (0.75 in)
	06/20/13 16:45 CST		0	Source: Public
EMMONS COUNTY --- 5.4 SSW BRADDOCK [46.50, -100.13]				
	06/20/13 17:02 CST		0	Hail (1.00 in)
	06/20/13 17:10 CST		0	Source: Trained Spotter
EMMONS COUNTY --- LINTON [46.27, -100.23]				
	06/20/13 17:35 CST		75K	Hail (1.75 in)
	06/20/13 17:45 CST		0	Source: Trained Spotter
Hail ranged from nickel to golf ball sized.				
EMMONS COUNTY --- 0.8 SW BRADDOCK [46.56, -100.09]				
	06/20/13 17:45 CST		0	Hail (1.00 in)
	06/20/13 17:55 CST		0	Source: Law Enforcement

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EMMONS COUNTY --- LINTON [46.27, -100.23]				
	06/20/13 17:55 CST		0.25M	Hail (2.75 in)
	06/20/13 18:10 CST		50K	Source: Public
The large hail caused home, car, and tree damage in the city of Linton, and crop damage outside of town.				
EMMONS COUNTY --- 6.2 E LINTON [46.27, -100.10]				
	06/20/13 18:28 CST		0	Hail (1.00 in)
	06/20/13 18:30 CST		0	Source: Public
EMMONS COUNTY --- 3.8 SSE TEMVIK [46.32, -100.21], 5.7 NNE HAZELTON ARPT [46.56, -100.25], 2.0 N KINTYRE [46.58, -99.95], 12.0 S KINTYRE [46.38, -99.93]				
	06/20/13 19:00 CST		25K	Flash Flood (due to Heavy Rain)
	06/20/13 22:00 CST		0	Source: Public
Deep water was flowing over highway 34 about 11 miles east of Hazelton, and county roads in this area were under deep water. There were rain reports of nearly three inches.				
LOGAN COUNTY --- 4.2 NW NAPOLEON [46.54, -99.83], 3.8 WSW NAPOLEON [46.47, -99.84], 6.9 WSW NAPOLEON [46.47, -99.91], 7.1 WNW NAPOLEON [46.54, -99.90]				
	06/20/13 19:00 CST		9K	Flash Flood (due to Heavy Rain)
	06/20/13 22:00 CST		0	Source: Public
Deep water and debris was flowing fast over Highway 34 west of Napoleon in Logan County. Rain reports of up to three inches were received from adjacent areas of Emmons County.				
EMMONS COUNTY --- 0.5 E STRASBURG [46.13, -100.16]				
	06/20/13 19:30 CST		0	Hail (1.00 in)
	06/20/13 19:35 CST		0	Source: Trained Spotter
LOGAN COUNTY --- 12.4 N LEHR [46.46, -99.35]				
	06/20/13 19:55 CST		0	Hail (1.00 in)
	06/20/13 20:05 CST		0	Source: Trained Spotter
MCINTOSH COUNTY --- 6.6 WSW DANZIG [46.10, -99.60]				
	06/20/13 20:00 CST		0	Hail (1.00 in)
	06/20/13 20:08 CST		0	Source: Trained Spotter
MCINTOSH COUNTY --- 7.3 NE ASHLEY [46.11, -99.27]				
	06/20/13 20:20 CST		0	Hail (1.00 in)
	06/20/13 20:35 CST		0	Source: Trained Spotter
MCINTOSH COUNTY --- ASHLEY [46.03, -99.37]				
	06/20/13 20:20 CST		0	Hail (1.75 in)
	06/20/13 20:30 CST		0	Source: Law Enforcement

Severe Thunderstorm Watch number 331 was in effect during this event.

A surface warm front extending from central South Dakota into the central Red River Valley of eastern North Dakota was the focus for scattered severe thunderstorms during the late afternoon and evening hours of the 20th. Large hail and heavy rain accompanied the severe thunderstorms over south central North Dakota.

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Highway 34 west of Napoleon. Picture courtesy of Justin Geffre.

ADAMS COUNTY --- 15.4 NNE BUCYRUS [46.27, -102.64]

06/21/13 09:10 MST	0	Hail (1.25 in)
06/21/13 09:15 MST	0	Source: Trained Spotter

HETTINGER COUNTY --- 4.2 S MOTT MUNI ARPT [46.29, -102.33]

06/21/13 09:24 MST	5K	Thunderstorm Wind (EG 52 kt)
06/21/13 09:34 MST	0	Source: Trained Spotter

Tree tops were snapped.

HETTINGER COUNTY --- 0.8 SW MOTT [46.37, -102.33]

06/21/13 09:55 MST	0	Hail (0.88 in)
06/21/13 10:00 MST	0	Source: Trained Spotter

HETTINGER COUNTY --- 0.8 SW MOTT [46.37, -102.33]

06/21/13 09:55 MST	0	Thunderstorm Wind (EG 52 kt)
06/21/13 10:00 MST	0	Source: Trained Spotter

Heavy rain accompanied the strong winds.

GRANT COUNTY --- ELGIN [46.40, -101.85]

06/21/13 10:15 MST	0	Thunderstorm Wind (EG 52 kt)
06/21/13 10:20 MST	0	Source: Public

Public report of a severe thunderstorm wind gust.

Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
SIOUX COUNTY --- 30.9 W SELFRIDGE [45.98, -101.57]				
	06/21/13 10:34 MST	0		Hail (1.75 in)
	06/21/13 10:40 MST	0		Source: Trained Spotter
<p>Isolated severe thunderstorms developed across southwest North Dakota late in the morning of the 21st, and continued into far south central North Dakota through the early afternoon before becoming more focused over South Dakota. Low level warm air advection combined with a subtle mid level short wave impulse rotating through the region to trigger the severe convection. Large hail and severe thunderstorm wind gusts accompanied the storms.</p>				
MCKENZIE COUNTY --- 0.8 SE ALEXANDER [47.84, -103.64]				
	06/21/13 21:10 MST	0		Hail (1.00 in)
	06/21/13 21:20 MST	0		Source: Public
BOTTINEAU COUNTY --- 0.5 W ANTLER [48.97, -101.28]				
	06/21/13 21:16 CST	0		Heavy Rain
	06/21/13 21:16 CST	0		Source: Trained Spotter
<p>Storm total rainfall of 2.30 inches was reported. The rain fell within a one hour period. Ditches were reported full with some standing water on roads.</p>				
BOTTINEAU COUNTY --- 0.5 W ANTLER [48.97, -101.28]				
	06/21/13 21:16 CST	0		Hail (1.00 in)
	06/21/13 21:21 CST	0		Source: Trained Spotter
BOTTINEAU COUNTY --- 0.5 W ANTLER [48.97, -101.28]				
	06/21/13 21:16 CST	0		Thunderstorm Wind (EG 52 kt)
	06/21/13 21:21 CST	0		Source: Trained Spotter
<p>Large hail accompanied the strong winds.</p>				
MCKENZIE COUNTY --- 0.5 E KEENE [47.93, -102.94]				
	06/21/13 22:25 MST	0		Hail (1.00 in)
	06/21/13 22:35 MST	0		Source: Trained Spotter
<p>Scattered thunderstorms tracked north and east across northwest and far north central North Dakota late in the evening of the 21st through the early morning of the 22nd. Large hail and severe thunderstorm winds, along with heavy rain, accompanied these storms.</p>				
GRANT COUNTY --- 13.2 SSE NEW LEIPZIG [46.19, -101.86]				
	06/22/13 17:00 MST	0		Heavy Rain
	06/22/13 18:00 MST	0		Source: Trained Spotter
<p>Heavy rain of two inches fell in one hour.</p>				
LOGAN COUNTY --- 7.6 N NAPOLEON [46.61, -99.77]				
	06/22/13 17:30 CST	0		Heavy Rain
	06/22/13 18:30 CST	0		Source: Trained Spotter
<p>Heavy rain of two inches fell in one hour.</p>				
GRANT COUNTY --- 13.2 SSE NEW LEIPZIG [46.19, -101.86]				
	06/22/13 18:00 MST	0		Hail (1.75 in)
	06/22/13 18:10 MST	0		Source: Trained Spotter
ADAMS COUNTY --- 0.5 W HETTINGER ARPT [46.02, -102.66]				
	06/22/13 18:26 MST	0		Thunderstorm Wind (MG 50 kt)
	06/22/13 18:31 MST	0		Source: ASOS
<p>Peak wind gust measured at the Hettinger Airport.</p>				
KIDDER COUNTY --- 13.3 SSE STEELE [46.67, -99.80]				

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	06/22/13 19:00 CST		0	Hail (1.00 in)
	06/22/13 19:10 CST		0	Source: Public
Strong winds accompanied the large hail.				
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KIDDER COUNTY --- 13.3 SSE STEELE [46.67, -99.80]				
	06/22/13 19:05 CST		0	Thunderstorm Wind (EG 52 kt)
	06/22/13 19:10 CST		0	Source: Public
Large hail accompanied the strong winds.				
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EMMONS COUNTY --- 3.8 W LINTON MUNI ARPT [46.22, -100.31]				
	06/22/13 19:15 CST		0	Hail (1.00 in)
	06/22/13 19:20 CST		0	Source: Public
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KIDDER COUNTY --- 1.0 W STEELE [46.85, -99.92]				
	06/22/13 19:20 CST		0	Thunderstorm Wind (EG 52 kt)
	06/22/13 19:25 CST		0	Source: Emergency Manager
Nickel size hail accompanied the strong winds.				
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HETTINGER COUNTY --- 0.8 SW MOTT [46.37, -102.33]				
	06/22/13 19:25 MST		0	Thunderstorm Wind (EG 52 kt)
	06/22/13 19:29 MST		0	Source: Trained Spotter
Very heavy rain accompanied the strong winds.				
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KIDDER COUNTY --- 4.9 S STEELE [46.78, -99.92]				
	06/22/13 19:25 CST		0	Hail (1.00 in)
	06/22/13 19:35 CST		0	Source: Public
Strong winds accompanied the large hail.				
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KIDDER COUNTY --- 4.9 S STEELE [46.78, -99.92]				
	06/22/13 19:25 CST		0	Thunderstorm Wind (EG 52 kt)
	06/22/13 19:35 CST		0	Source: Public
Large hail accompanied the strong winds.				
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SIOUX COUNTY --- 8.9 NNE SELFRIDGE [46.15, -100.86]				
	06/22/13 19:25 MST		0	Thunderstorm Wind (MG 54 kt)
	06/22/13 19:29 MST		0	Source: Mesonet
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KIDDER COUNTY --- 3.6 SSW STEELE [46.80, -99.92]				
	06/22/13 19:35 CST		0	Hail (1.00 in)
	06/22/13 19:45 CST		0	Source: COOP Observer
Very strong winds and heavy rain accompanied the large hail.				
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KIDDER COUNTY --- 4.0 S STEELE [46.79, -99.90]				
	06/22/13 19:35 CST		0	Thunderstorm Wind (EG 61 kt)
	06/22/13 19:45 CST		0	Source: COOP Observer
Large hail accompanied the strong winds.				
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KIDDER COUNTY --- 5.0 NNW STEELE MUNI ARPT [46.92, -100.01]				
	06/22/13 19:49 CST		0	Thunderstorm Wind (EG 61 kt)
	06/22/13 19:55 CST		0	Source: Public
Large hail accompanied the strong winds.				

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KIDDER COUNTY --- 6.0 NW STEELE [46.91, -99.99]				
	06/22/13 19:49 CST		0	Hail (1.00 in)
	06/22/13 19:55 CST		0	Source: Public
BURLEIGH COUNTY --- 2.0 SW (BIS)BISMARCK MUNI A [46.76, -100.78]				
	06/22/13 20:15 CST		0	Heavy Rain
	06/22/13 20:45 CST		0	Source: Trained Spotter
Very heavy rain measured at 1.25 inches fell in less than a half hour. See the flash flood entry from this date for this area.				
BURLEIGH COUNTY --- 2.7 ESE (BIS)BISMARCK MUNI A [46.76, -100.70]				
	06/22/13 20:24 CST		0	Hail (1.00 in)
	06/22/13 20:30 CST		0	Source: NWS Employee
BURLEIGH COUNTY --- 2.7 ESE (BIS)BISMARCK MUNI A [46.76, -100.70]				
	06/22/13 20:24 CST		0	Thunderstorm Wind (EG 61 kt)
	06/22/13 20:30 CST		0	Source: NWS Employee
Large hail accompanied the strong winds.				
BURLEIGH COUNTY --- 1.8 N BISMARCK [46.83, -100.77]				
	06/22/13 20:26 CST		0	Thunderstorm Wind (EG 61 kt)
	06/22/13 20:31 CST		0	Source: Broadcast Media
Very heavy rain and nickel size hail accompanied the strong winds.				
BURLEIGH COUNTY --- 2.0 SW (BIS)BISMARCK MUNI A [46.76, -100.78]				
	06/22/13 20:30 CST		0	Thunderstorm Wind (EG 52 kt)
	06/22/13 20:35 CST		0	Source: Trained Spotter
Very heavy rain accompanied the strong winds.				
BURLEIGH COUNTY --- 0.8 NW BISMARCK [46.81, -100.78]				
	06/22/13 20:37 CST		0	Heavy Rain
	06/22/13 20:47 CST		0	Source: NWS Employee
Torrential rain of one inch fell in 10 minutes. See the flash flood entry from this date for this area.				
BURLEIGH COUNTY --- 7.2 NNW BISMARCK [46.90, -100.83], 6.6 NW FT LINCOLN [46.89, -100.70], 1.7 ENE (BIS)BISMARCK MUNI A [46.79, -100.72], 3.1 WSW (BIS)BISMARCK MUNI A [46.76, -100.81]				
	06/22/13 20:41 CST		90K	Flash Flood (due to Heavy Rain)
	06/22/13 23:30 CST		0	Source: Mesonet
Torrential rain, an inch in ten minutes reported from south Bismarck, fell across Bismarck late in the evening of June 22nd. Numerous reports of flash flooding were received from across the city, including the intersection of Washington and Divide, 26th and Rosser, and at points along Bismarck Expressway including at Washington. These intersections had the worst flooding with up to a foot of water flowing across the road, over the curb, and in some cases into homes and businesses. Underpasses were flooded with several feet of water, and one road was closed due to fast flowing deep water. Vehicles were stalled at various locations in the city.				
HETTINGER COUNTY --- 3.1 ENE NEW ENGLAND [46.55, -102.79], 14.2 NNW BURT [46.57, -102.21], 5.9 SSW BURT [46.29, -102.18], 12.7 SW REGENT [46.30, -102.76]				
	06/22/13 20:45 MST		15K	Flash Flood (due to Heavy Rain)
	06/22/13 22:30 MST		0	Source: Law Enforcement
Law enforcement reported several roads experiencing flooding of deep water in Hettinger County.				
BURLEIGH COUNTY --- 1.5 NNE BISMARCK [46.82, -100.76]				
	06/22/13 21:00 CST		40K	Thunderstorm Wind (EG 65 kt)
	06/22/13 21:10 CST		0	Source: Public
The strong winds took the roof off of a partially built building. Debris from the roof damaged a parked car.				

Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
BURLEIGH COUNTY --- 0.8 NW BISMARCK [46.81, -100.78]				
	06/22/13 21:05 CST		20K	Thunderstorm Wind (EG 56 kt)
	06/22/13 21:15 CST		0	Source: Public
Several trees were damaged in the city of Bismarck.				
BURLEIGH COUNTY --- 0.8 NW BISMARCK [46.81, -100.78]				
	06/22/13 21:21 CST		30K	Thunderstorm Wind (EG 61 kt)
	06/22/13 21:25 CST		0	Source: Trained Spotter
Several trees up to fifty feet tall were uprooted along South Washington Street in Bismarck.				
WELLS COUNTY --- 5.2 SSW HARVEY [47.70, -99.94]				
	06/22/13 21:25 CST		0	Thunderstorm Wind (EG 56 kt)
	06/22/13 21:30 CST		0	Source: Public
This was a public report of strong thunderstorm winds.				
BURLEIGH COUNTY --- REGAN [47.15, -100.53]				
	06/22/13 21:50 CST		35K	Thunderstorm Wind (EG 61 kt)
	06/22/13 22:00 CST		0	Source: Social Media
Multiple large trees were either uprooted or snapped off in Regan.				
PIERCE COUNTY --- 0.9 W RUGBY [48.37, -100.00]				
	06/22/13 22:25 CST		0	Hail (1.50 in)
	06/22/13 22:30 CST		0	Source: Public
Severe Thunderstorm Watch numbers 345 and 350 were in effect during this event.				
A capped atmosphere and weak bulk shear prevented convection over North Dakota while storms were developing over far southeast Montana and eastern Wyoming.				
Later in the afternoon bulk shear increased substantially into North Dakota in the vicinity of a southwest to northeast orientated surface trough. As the cap weakened, convection became more organized over south central North Dakota early in the evening. In addition, a bowing line segment originating over northwest South Dakota, propagated northeast through the evening hours along the surface trough axis into Adams County, North Dakota, eventually moved into the Bismarck area and then toward the western Devils Lake Basin region.				
Numerous reports of large hail, severe thunderstorm wind gusts, and heavy rain accompanied the severe thunderstorms. Flash flood warnings were posted for a large area of south central North Dakota, where several periods of thunderstorms with heavy rain moved through.				
DIVIDE COUNTY --- 1.0 W CROSBY [48.92, -103.30]				
	06/23/13 15:05 CST		0	Funnel Cloud
	06/23/13 15:15 CST		0	Source: Trained Spotter
A funnel cloud was reported one mile west of Crosby.				
Upper level low pressure over central Saskatchewan resulted in steep lapse rates near the Canadian border and led to isolated strong thunderstorms over northwest North Dakota. A funnel cloud was reported near Crosby.				
MCHENRY COUNTY --- 8.0 S VELVA [47.95, -100.93], 5.4 WSW VOLTAIRE [47.98, -100.93]				
	06/25/13 15:12 CST		0	Tornado (EF0, L: 1.78 mi , W: 20 yd)
	06/25/13 15:21 CST		0	Source: Public
Multiple reports of a weak tornado touchdown in far southeastern McHenry County were received. There was no damage and so the tornado was rated EF0.				
SHERIDAN COUNTY --- 1.7 NW PICKARDVILLE [47.49, -100.60]				
	06/25/13 16:28 CST		0	Funnel Cloud
	06/25/13 16:30 CST		0	Source: Trained Spotter

Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A brief funnel cloud was observed near Pickardville along Highway 200.

MCHEMRY COUNTY --- 1.9 S DRAKE [47.89, -100.37]

	06/25/13 16:30 CST	0		Hail (1.00 in)
	06/25/13 16:32 CST	0		Source: Social Media

SHERIDAN COUNTY --- 3.3 WNW DENHOFF [47.49, -100.34]

	06/25/13 16:57 CST	0		Hail (0.75 in)
	06/25/13 17:02 CST	0		Source: Trained Spotter

Severe Thunderstorm Watch number 364 was in effect during this event.

A surface front just east of Highway 83 was the focus for diurnally driven convection late in the afternoon of the 25th. An upper level short wave approaching the Northern Plains was the trigger mechanism for the storms. Strong low level wind shear near the surface front created a favorable environment for landspout tornadoes. One confirmed EF0 tornado touched down for several minutes over far southeast McHenry County, south of Velva.

In addition to the brief weak tornado, a very humid air mass along with weak flow aloft resulted in locally heavy rain with slow moving and training thunderstorms.

Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Brief tornado touchdown south of Velva, ND. Photo from KXMC in Minot from a viewer (No name attached).

BURLEIGH COUNTY --- 9.0 S WING [47.00, -100.29]

06/26/13 14:25 CST	0		Hail (1.00 in)
06/26/13 14:30 CST	0		Source: Other Federal Agency

Strong winds to fifty miles per hour accompanied the large hail.

Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
KIDDER COUNTY --- 5.8 NW DAWSON [46.92, -99.83]				
	06/26/13 14:50 CST		0	Hail (0.75 in)
	06/26/13 14:56 CST		0	Source: Trained Spotter
LA MOURE COUNTY --- 5.6 N EDGELEY [46.45, -98.72]				
	06/26/13 16:22 CST		0	Hail (0.88 in)
	06/26/13 16:27 CST		0	Source: Law Enforcement
DICKEY COUNTY --- 4.5 NE GLOVER [46.28, -98.07]				
	06/26/13 16:40 CST		40K	Thunderstorm Wind (EG 52 kt)
	06/26/13 16:55 CST		0	Source: Public

Strong thunderstorm winds resulted in small trees uprooted, a sixty-four foot antenna tower broken off, and damage to an outbuilding.

A mid level short wave trough moving into the Northern Plains combined with afternoon instability to trigger isolated strong to severe thunderstorms along a weak surface boundary over south central North Dakota. An isolated supercell produced large hail and severe thunderstorm winds as it tracked southeast from Burleigh County through Dickey County before moving into South Dakota by the early evening hours.