Location Date/Time Deaths & Property & **Event Type and Details** Injuries Crop Dma NORTH DAKOTA, Central and West BURLEIGH COUNTY --- 36.6 WNW WILTON [47.43, -101.48], 28.3 N WILTON [47.58, -100.78], 47.2 S MOFFIT [46.00, -100.37], 50.4 SSW MOFFIT [46.02, -100.73] 07/01/11 00:00 CST 0 Flood (due to Heavy Rain / Snow Melt) 07/31/11 23:59 CST 0 Source: Other Federal Agency See the event episode narrative for details. MCLEAN COUNTY --- 7.1 SW RIVERDALE [47.43, -101.48], 7.0 NE TURTLE LAKE [47.58, -100.78], 83.4 SSE WILTON [46.00, -100.37], 79.5 S WILTON [46.02, -100.73] 07/01/11 00:00 CST 0 Flood (due to Heavy Rain / Snow Melt) 07/31/11 23:59 CST 0 Source: Other Federal Agency See the event episode narrative for details. MERCER COUNTY --- 6.2 S PICK CITY [47.43, -101.48], 32.4 E PICK CITY [47.58, -100.78], 103.0 SSE STANTON [46.00, -100.37], 95.0 SSE STANTON [46.02, -100.73] 07/01/11 00:00 CST n Flood (due to Heavy Rain / Snow Melt) 07/31/11 23:59 CST n Source: Other Federal Agency See the event episode narrative for details. MORTON COUNTY --- 40.2 N NEW SALEM [47.43, -101.48], 52.1 N MANDAN [47.58, -100.78], 37.3 SSE FT RICE [46.00, -100.37], 26.6 SSE BREIEN [46.02, -100.73] 07/01/11 00:00 CST 0 Flood (due to Heavy Rain / Snow Melt) 07/31/11 23:59 CST n Source: Other Federal Agency See the event episode narrative for details. OLIVER COUNTY --- 17.5 NW FT CLARK [47.43, -101.48], 26.8 NNE HENSLER [47.58, -100.78], 79.5 SSE PRICE [46.00, -100.37], 74.0 S PRICE [46.02, -100.73] 07/01/11 00:00 CST 0 Flood (due to Heavy Rain / Snow Melt) 07/31/11 23:59 CST 0 Source: Other Federal Agency See the event episode narrative for details. SIOUX COUNTY --- 78.7 NNW SOLEN [47.43, -101.48], 82.2 N SOLEN [47.58, -100.78], 13.6 ESE FT YATES [46.00, -100.37], 6.3 SW FT YATES [46.02, -100.73] 07/01/11 00:00 MST 0 Flood (due to Heavy Rain / Snow Melt) 07/31/11 23:59 MST 0 Source: Other Federal Agency See the event episode narrative for details. This was part of historic flooding in North Dakota with statewide costs estimated around 1.5 billion dollars. Flooding was the result of significant winter snows and significant spring rains, not only in North Dakota but in Montana as well. Rocky Mountain snowpack was

This was part of historic flooding in North Dakota with statewide costs estimated around 1.5 billion dollars. Flooding was the result of significant winter snows and significant spring rains, not only in North Dakota but in Montana as well. Rocky Mountain snowpack was four to six times normal. Flooding was along the Missouri River from the Garrison Dam to the South Dakota border. Dams were overwhelmed by the amount of water. Flooding included river, ground, and overland types. Estimated damages were in the hundreds of millions of dollars and that is not all inclusive. There was a significant loss to agriculture by not being able to plant. A tremendous flood fight was waged against the river, and that cost is not included here. Storm Data cannot reflect the scope of this event. Information is what was available at the time of this writing. Refer to newspaper articles and other federal, state, and local sources for detailed information.

Here are some facts about the flooding in North Dakota provided by North Dakota Emergency Management. The total estimated flood cost was around \$1.5 billion. Individual and housing assistance was \$323 million; small business \$248 million; home and business reconstruction \$452 million; public response, recovery, and mitigation \$480 million; disaster unemployment for 866 claims was \$2.3 million; and the public finance authority disaster loan program approved \$56.6 million. Public infrastructure costs were \$320 million. Of the state's 53 counties, 48 were impacted, along with three tribal nations.

The Missouri River was in flood in every state in the United States of America that it runs through. This was a multi-state disaster.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
DUNN COUNTY 62.6 WNW KILLDEER [4'	7.75, -103.99], 23.2 N WERNER [4	7.70, -102.38], 58.	8 N WERNER [48.2	21, -102.27], 79.5 NW KILLDEER [48.17,
-104.00]	07/01/11 00:00 MST		0	Flood (due to Heavy Rain / Snow Melt)
	07/31/11 23:59 MST		0	Source: Other Federal Agency
See the event episode narrative for details.				<i>3 ,</i>
MCKENZIE COUNTY 7.2 SSE FAIRVIEW	[47 75 -103 99] 14 0 F MANDAR	FF [47 70 -102 38	1 29 3 ENE CHARI	SON [48 21 -102 27] 22 1 N
FAIRVIEW [48.17, -104.00]	[47.70, 100.00], 14.0 2 11.7410741		j, 2010 ENE ONANE	10011 [10121], 102121], 221111
	07/01/11 00:00 MST		0	Flood (due to Heavy Rain / Snow Melt)
	07/31/11 23:59 MST		0	Source: Other Federal Agency
See the event episode narrative for details.				
MOUNTRAIL COUNTY 67.7 WSW SANISI	H [47.75, -103.99], 19.7 SW PARS	HALL ARPT [47.7	O, -102.38], 3.9 NE	BELDEN ARPT [48.21, -102.27], 58.4
WSW WHITE EARTH [48.17, -104.00]	07/01/11 00:00 CST		0	Flood (due to Heavy Rain / Snow Melt)
	07/31/11 23:59 CST		0	Source: Other Federal Agency
			-	
See the event episode narrative for details.				
WILLIAMS COUNTY 17.3 S BUFORD [47.	75, -103.99], 54.6 SSE TIOGA [47	.70, -102.38], 33.0	ESE TIOGA [48.21	, -102.27], 9.8 NW TRENTON [48.17,
-104.00]	07/01/11 00:00 CST		0	Flood (due to Heavy Rain / Snow Melt)
	07/31/11 23:59 CST		0	Source: Other Federal Agency
See the event episode narrative for details.				Ç ,
waged against the river, and that cost is not available at the time of this writing. Refer to there are some facts about the flooding in Notes was around \$1.5 billion. Individual and reconstruction \$452 million; public responsibilition; and the public finance authority distinct the state's 53 counties, 48 were impacted, at the Missouri River was in flood in every state.	o newspaper articles and other for North Dakota provided by North I d housing assistance was \$323 m se, recovery, and mitigation \$480 saster loan program approved \$5 along with three tribal nations.	ederal, state, and l Dakota Emergency nillion; small busion I million; disaster 66.6 million. Public	ocal sources for d Management. The ness \$248 million; unemployment for infrastructure cos	e total estimated flood home and business r 866 claims was \$2.3 sts were \$320 million. Of
BOTTINEAU COUNTY 44.5 W ANTLER [4	18.98, -102.25], 36.1 SSW LANSFO	ORD [48.18, -101.7	7], 29.1 S WILLOW	CITY [48.18, -100.34], 3.5 WSW
WILLOW CITY [48.58, -100.35], 4.9 N LANDA	A [48.97, -100.90] 07/01/11 00:00 CST		0	Flood (due to Heavy Rain / Snow Melt)
	07/31/11 23:59 CST		0	Source: Other Federal Agency
				3y
See the event episode narrative for details.				
MCHENRY COUNTY 67.8 NW DEERING [[48.58, -100.35], 28.2 NNW UPHAM [48.97, -	= · · · · · · · · · · · · · · · · · · ·	ING [48.18, -101.7	7], 12.1 SSE TOWN	IER [48.18, -100.34], 12.7 ENE BANTRY
L	07/01/11 00:00 CST		0	Flood (due to Heavy Rain / Snow Melt)
	07/31/11 23:59 CST		0	Source: Other Federal Agency
See the event episode narrative for details.				
RENVILLE COUNTY 26.1 NW TOLLEY [4	8.98, -102.25], 31.6 SSW GRANO	[48.18, -101.77], 4	6.7 ESE GLENBUR	RN [48.18, -100.34], 40.0 E GLENBURN
[48.58, -100.35], 30.3 ENE LORAINE [48.97,	-100.90]	_		
	07/01/11 00:00 CST		0	Flood (due to Heavy Rain / Snow Melt)

07/31/11 23:59 CST

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Source: Other Federal Agency

0

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
See the event episode narrative for details.				
VARD COUNTY 20.8 N NIOBE [48.98, -102.29 100.35], 37.3 NNE WOLSETH [48.97, -100.90]	5], 9.8 S BERTHOLD [48.18, -10	1.77], 33.5 ENE	SAWYER [48.18,	-100.34], 36.4 ENE WOLSETH [48.58,
, , , , , , , , , , , , , , , , , , , ,	07/01/11 00:00 CST		0	Flood (due to Heavy Rain / Snow Melt)
	07/31/11 23:59 CST		0	Source: Other Federal Agency
See the event episode narrative for details.				
This was part of historic flooding in North Dako significant winter snows and significant spring the Souris (Mouse) River from where it enters to Canada. Dams were overwhelmed by the amou were many hundreds of millions of dollars, and plant. A tremendous flood fight was waged agaithis event. Information is what was available at	rains, not only in North Dakota he United States from Saskatcl nt of water. Flooding included I that is not all inclusive. There inst the river, and that cost is r	a but in Saskato hewan, Canada river, ground, a was a significa not included he	chewan, Canada, a , to where it cross and overland types nt loss to agricult re. Storm Data cal	as well. Flooding was along les into Manitoba, s. Estimated damages ure by not being able to nnot reflect the scope of
sources for detailed information.				
Here are some facts about the flooding in Nortl	n Dakota provided by North Dal	kota Emergenc	y Management. Th	ne total estimated flood
cost was around \$1.5 billion. Individual and ho		= :	=	
reconstruction \$452 million; public response, r	=			
million; and the public finance authority disaste	er loan program approved \$56.	6 million. Publi	c infrastructure co	osts were \$320 million. Of
the state's 53 counties, 48 were impacted, alon	g with three tribal nations.			
DIVIDE COUNTY 4.9 SW NOONAN [48.84, -10	03.09]			
	07/02/11 23:00 CST		0	Hail (1.00 in)
	07/02/11 23:04 CST		0	Source: Trained Spotter
One report of large hail was received. KIDDER COUNTY 15.1 SSE STEELE [46.65, -	99.77]			
	07/08/11 06:00 CST		0	Heavy Rain
	07/08/11 20:00 CST		0	Source: Trained Spotter
Heavy rainfall of 4.6 inches was reported 10 mile	s north of Napoleon. This was a	14 hour rain tot	al.	
DUNN COUNTY 7.4 SW EMERSON [47.11, -1	02.771. 6.0 SW EMERSON [47.1]	1102.731		
	07/08/11 15:35 MST	.,	0	Tornado (EF0, L: 1.93 mi , W: 25 yd)
	07/08/11 15:40 MST		0	Source: Public
Multiple public reports of a tornado were called in County. No damage was reported. The same thu See Mercer County tornado entries.				
MORTON COUNTY 4.8 NW NEW SALEM [46.	•			
	07/08/11 16:00 CST		0	Hail (0.75 in)
	07/08/11 16:06 CST		0	Source: COOP Observer
MERCER COUNTY 2.4 WNW GOLDEN VLY [· •	N VLY [47.31, -	102.06]	
	07/08/11 16:43 CST		0	Tornado (EF0, L: 3.13 mi , W: 40 yd)
	07/08/11 16:48 CST		0	Source: COOP Observer
This tornado occurred in open country northwest complex that produced this tornado in Mercer Co Beulah. See Dunn County and other Mercer Cou	unty produced one earlier, south	-	-	•
MERCER COUNTY 1.0 WNW BEULAH [47.28	, -101.80], 3.0 NNE BEULAH [47	7.31, -101.76]		
	07/08/11 17:02 CST		0	Tornado (EF0, L: 3.16 mi , W: 30 yd)
	07/09/11 17:07 CST		0	Course: Law Enforcement

07/08/11 17:07 CST

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Source: Law Enforcement

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
same thunderstorm complex that produc	ced this tornado in Mercer County prod	uced one earlier n	orthwest of Golder	the city. No damage was reported. The n Valley, Mercer County, and one before
that south of Manning in Dunn County.	See Dunn County and other Mercer Co	unty tornado entri	es.	
STUTSMAN COUNTY 5.9 SW PINGF	REE [47.1199.01]			
	07/08/11 17:35 CST		0	Funnel Cloud
	07/08/11 17:38 CST		0	Source: Public
A public report of funnel clouds appearing	ng then quickly disappearing was recei	ved.		
MORTON COUNTY 7.5 SSW FT RIC	E [46.42, -100.64]			
	07/08/11 17:38 CST		0	Tornado (EF0, L: 0.01 mi , W: 15 yd)
	07/08/11 17:38 CST		0	Source: Public
A tornado touched the ground near the this tornado.	Cannon Ball River and quickly lifted. It	was on the ground	for less than one	minute. No damage was reported with
STUTSMAN COUNTY 5.9 SW EDMU	NDS [47.19, -99.06]			
	07/08/11 17:43 CST		0	Hail (1.00 in)
	07/08/11 17:47 CST		0	Source: Mesonet
MCLEAN COUNTY GARRISON [47.6	65101.421			
	07/08/11 17:45 CST		50K	Lightning
	07/08/11 17:45 CST		0	Source: Newspaper
Lightning struck the roof of a house at ruthese details were not provided in the austructure of the structure of the structur	rticle.	e was significant.	me ume, location,	and damage value are estimated as
	07/08/11 17:45 CST		0	Hail (1.00 in)
	07/08/11 17:48 CST		0	Source: Mesonet
STUTSMAN COUNTY 7.4 WSW PING	GREE [47.1299.06]			
	07/08/11 17:46 CST		0	Hail (1.50 in)
	07/08/11 17:49 CST		0	Source: Mesonet
MCLEAN COUNTY 4 5 NNW UNDER	DWOOD [47 47 404 44] 4 4 N LINDER	WOOD [47 47 40	4 441	
MCLEAN COUNTY 1.5 NNW UNDER	07/08/11 17:59 CST	WOOD [47.47, -10	0	Tornado (EF0, L: 0.23 mi , W: 30 yd)
	07/08/11 18:00 CST		0	Source: Public
A brief tornado touched down near Und		es. No damage wa	s reported with this	s tornado.
EMMONS COUNTY 4.5 NW HAZELT	ON [46.53100.34]			
	07/08/11 18:30 CST		0	Thunderstorm Wind (EG 52 kt)
	07/08/11 18:37 CST		0	Source: COOP Observer
A severe thunderstorm wind gust estima	ated at 60 miles per hour was reported.			
STUTSMAN COUNTY 4 8 WSW WO	ODWORTH [47 13 -00 401 6 0 885 00	NIRTENAV (47 42	-98 531 7 0 NNE	COURTENAY [47.32, -98.54], 13.1 NNW
WOODWORTH [47.33, -99.40]		ORIENAT [47.12		• •
	07/08/11 19:00 CST		0.50M	Flash Flood (due to Heavy Rain)
	07/08/11 23:00 CST		0	Source: Law Enforcement
Local area law enforcement reported de several locations.	ep water over Highway 36 west of Ping	gree. Railroad tracl	ks between Pingre	ee and Woodworth were washed out in
MCHENRY COUNTY 4.6 W BANTRY	[48.50, -100.70]			
	07/08/11 19:20 CST		0	Heavy Rain
	07/08/11 21:20 CST		0	Source: Mesonet

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Heavy rainfall of 2.5 inches over a two hour period was reported.

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MCHENRY COUNTY 0.5 W NORWIG				
	07/08/11 19:30 CST		0	Heavy Rain
	07/08/11 21:30 CST		0	Source: Public
leavy rainfall of 2.25 inches over a two	o hour period was reported near Norwich	l.		
OGAN COUNTY 0.7 N NAPOLEON	N [46.51, -99.77], 0.8 NNE NAPOLEON [4	46.51, -99.76]	0	Tornada /EE0 L+0 26 mi W+20 vd\
				Tornado (EFO, L: 0.26 mi , W: 30 yd)
	07/08/11 19:36 CST		0	Source: Public
A brief tornado touchdown occurred ne	ar Napoleon. No structures were impact	ed, and no damag	ge was reported wit	th this tornado.
EMMONS COUNTY 5.5 S KINTYRE	-			
	07/08/11 19:39 CST		0	Heavy Rain
	07/08/11 21:39 CST		0	Source: COOP Observer
Heavy rainfall of 2.3 inches over a two	hour period was reported.			
MCINTOSH COUNTY 0.8 NW WISH	EK [46.26, -99.56]			
	07/08/11 21:02 CST		25K	Thunderstorm Wind (EG 70 kt)
	07/08/11 21:07 CST		0	Source: Law Enforcement
Strong thunderstorm winds resulted in :	several large trees and numerous branch	hes blown down ir	n Wishek.	
central North Dakota for the afternoor where storms eventually developed a conducive for tornado development. I	ed in the early afternoon in anticipation n and evening hours of July 8th. Desta cross the south. Veering low level wind Numerous severe weather warnings we age reports.	abilization occurred	ed behind a northy ector also created	ward advecting warm front, an environment
central North Dakota for the afternoor where storms eventually developed a conducive for tornado development. I were rated EF0 as there were no dama	n and evening hours of July 8th. Desta cross the south. Veering low level wind Numerous severe weather warnings we age reports.	abilization occurred	ed behind a north ector also created rnadoes occurred	ward advecting warm front, an environment during this event and all
central North Dakota for the afternoor where storms eventually developed a conducive for tornado development. I were rated EF0 as there were no dama	n and evening hours of July 8th. Desta cross the south. Veering low level wind Numerous severe weather warnings we age reports.	abilization occurred	ed behind a northy ector also created	ward advecting warm front, an environment
central North Dakota for the afternoor where storms eventually developed a conducive for tornado development. I were rated EF0 as there were no dam:	n and evening hours of July 8th. Desta cross the south. Veering low level wind Numerous severe weather warnings we age reports. [46.58, -102.18] 07/10/11 08:45 MST 07/10/11 08:50 MST	abilization occurred	ed behind a north ector also created rnadoes occurred	ward advecting warm front, an environment during this event and all Hail (1.00 in)
central North Dakota for the afternoor where storms eventually developed a conducive for tornado development. I were rated EF0 as there were no dam:	n and evening hours of July 8th. Desta cross the south. Veering low level wind Numerous severe weather warnings we age reports. [46.58, -102.18] 07/10/11 08:45 MST 07/10/11 08:50 MST	abilization occurred	ed behind a north ector also created rnadoes occurred 0 0	ward advecting warm front, an environment during this event and all Hail (1.00 in) Source: Mesonet
central North Dakota for the afternoor where storms eventually developed a conducive for tornado development. I were rated EF0 as there were no dam:	n and evening hours of July 8th. Desta cross the south. Veering low level wind Numerous severe weather warnings we age reports. [46.58, -102.18] 07/10/11 08:45 MST 07/10/11 08:50 MST	abilization occurred	ed behind a north ector also created rnadoes occurred	ward advecting warm front, an environment during this event and all Hail (1.00 in)
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central North Dakota for the afternoor where storms eventually developed a conducive for tornado development. I were rated EF0 as there were no dama HETTINGER COUNTY 14.5 N BURT STARK COUNTY 5.6 S GLADSTON The hail size was estimated by a photo	n and evening hours of July 8th. Desta across the south. Veering low level wind Numerous severe weather warnings we age reports. [46.58, -102.18]	abilization occurr ds in the warm se ere issued. Six to	ed behind a north ector also created rnadoes occurred 0 0 0	ward advecting warm front, an environment during this event and all Hail (1.00 in) Source: Mesonet Hail (2.00 in)
central North Dakota for the afternoor where storms eventually developed a conducive for tornado development. I were rated EF0 as there were no dama HETTINGER COUNTY 14.5 N BURT STARK COUNTY 5.6 S GLADSTON The hail size was estimated by a photo	n and evening hours of July 8th. Desta across the south. Veering low level wind Numerous severe weather warnings we age reports. [46.58, -102.18]	abilization occurr ds in the warm se ere issued. Six to	ed behind a north ector also created rnadoes occurred 0 0 0	ward advecting warm front, an environment during this event and all Hail (1.00 in) Source: Mesonet Hail (2.00 in)
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central North Dakota for the afternoor where storms eventually developed a conducive for tornado development. I were rated EF0 as there were no dam: HETTINGER COUNTY 14.5 N BURT STARK COUNTY 5.6 S GLADSTON The hail size was estimated by a photo GRANT COUNTY 18.7 N ELGIN MU Mostly pea size hail with a few larger ha	n and evening hours of July 8th. Desta cross the south. Veering low level wind Numerous severe weather warnings we age reports. [46.58, -102.18] 07/10/11 08:45 MST 07/10/11 08:50 MST IE [46.79, -102.57] 07/10/11 09:20 MST provided by broadcast media. No dama INI ARPT [46.67, -101.83] 07/10/11 09:30 MST 07/10/11 09:35 MST ail stones.	abilization occurr ds in the warm se ere issued. Six to	ed behind a north ector also created rnadoes occurred 0 0 0 vith this large hail.	ward advecting warm front, an environment during this event and all Hail (1.00 in) Source: Mesonet Hail (2.00 in) Source: Public
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MORTON COUNTY --- 4.9 S MANDAN MUNI ARPT [46.70, -100.89]

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/10/11 11:10 CST		0	Thunderstorm Wind (EG 52 kt)
	07/10/11 11:25 CST		0	Source: Trained Spotter
The strong winds lasted 15 minutes.				
BURLEIGH COUNTY 4.3 SE (BIS)BISM	_			H-1 (0.75 (a)
	07/10/11 11:21 CST		0	Hail (0.75 in)
	07/10/11 11:21 CST		0	Source: NWS Employee
SIOUX COUNTY 11.5 WNW SELFRIDG				
	07/10/11 11:50 MST		0	Hail (1.75 in)
	07/10/11 11:57 MST		0	Source: Trained Spotter
MORTON COUNTY 8.4 S SWEET BRIA	.R [46.71, -101.21]			
	07/10/11 12:14 CST		0	Thunderstorm Wind (EG 52 kt)
	07/10/11 12:19 CST		0	Source: Public
Estimated winds of 60 miles per hour was	reported by the public.			
SIOUX COUNTY 0.7 N FT YATES [46.0	9, -100.63]			
	07/10/11 12:33 MST		0	Hail (1.00 in)
	07/10/11 12:39 MST		0	Source: Trained Spotter
SIOUX COUNTY 0.7 N FT YATES [46.0	9, -100.63]			
-	07/10/11 12:33 MST		0	Thunderstorm Wind (EG 52 kt)
	07/10/11 12:39 MST		0	Source: Trained Spotter
One inch in diameter hail was also reporte	d.			
SIOUX COUNTY 2.1 S FT YATES [46.0	5, -100.63]			
	07/10/11 12:40 MST		0	Hail (2.00 in)
	07/10/11 12:49 MST		0	Source: Public
MORTON COUNTY 2.5 NE ST ANTHON	NY [46.65, -100.89]			
	07/10/11 12:43 CST		0	Hail (1.00 in)
	07/10/11 12:53 CST		0	Source: COOP Observer
MORTON COUNTY HUFF [46.62, -100.0	651			
	07/10/11 12:45 CST		20K	Thunderstorm Wind (EG 65 kt)
	07/10/11 12:50 CST		0	Source: Law Enforcement
Strong thunderstorm winds uprooted two for	oot in diameter oak trees near Huff.			
BURLEIGH COUNTY 2.1 SSW (BIS)BIS	SMARCK MUNI A [46.75, -100.76]			
	07/10/11 12:50 CST		0.15M	Hail (1.25 in)
	07/10/11 13:05 CST		0	Source: NWS Employee
About a dozen homes in Falconer Estates	subdivision had roof and gutter dam	age from the large	hail.	
BURLEIGH COUNTY 4.3 SE (BIS)BISM	_			
	07/10/11 12:52 CST		0	Thunderstorm Wind (EG 65 kt)
	07/10/11 12:59 CST		0	Source: NWS Employee
Penny size hail accompanied the strong w	inds.			
Penny size hail accompanied the strong w BURLEIGH COUNTY 4.2 SE (BIS)BISM	IARCK MUNI A [46.73, -100.70]			
			0	Hail (1.00 in) Source: NWS Employee

BURLEIGH COUNTY --- 3.5 SW MOFFIT [46.65, -100.34], 2.3 S MOFFIT [46.65, -100.27]

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	Date/Time	Deaths &	Property &	Event Type and Details
		Injuries	Crop Dmg	
	07/10/11 13:14 CST		0.25M	Thunderstorm Wind (EG 83 kt)
	07/10/11 13:24 CST		0	Source: NWS Storm Survey
Double poled wood transmission lines were camper was flipped off of the highway and t			ng concrete ancho	ors was ripped out of the ground. A
EMMONS COUNTY HAZELTON [46.48,	-100.28]			
	07/10/11 13:15 CST		0.15M	Thunderstorm Wind (MG 83 kt)
	07/10/11 13:28 CST		0	Source: NWS Storm Survey
Ninds were measured with a home anemor plown off of trees. A gas station on the west		-		three to six inch in diameter branches
EMMONS COUNTY 5.8 NNE HAZELTON	N ARPT [46.56, -100.23]			
	07/10/11 13:24 CST		25K	Thunderstorm Wind (EG 61 kt)
	07/10/11 13:29 CST		0	Source: NWS Storm Survey
Minor wind damage occurred at a farmstead	d. Shingles were blown off of a trail	er home, and a sm	all building was blo	own over.
EMMONS COUNTY 1.6 ESE BRADDOCI			0	Thursdoretern Wind (FC 5014)
	07/10/11 13:33 CST		0	Thunderstorm Wind (EG 52 kt)
	07/10/11 13:38 CST		0	Source: NWS Storm Survey
Strong thunderstorm winds occurred two mi	iles east of Braddock.			
LOGAN COUNTY 0.7 N NAPOLEON [46	- · · · · · · · - · · · · · · · · · · ·		FOK	Thursdown Mind (FO 74 ld)
	07/10/11 13:35 CST		50K	Thunderstorm Wind (EG 74 kt)
	07/10/11 13:40 CST		0	Source: NWS Storm Survey
	al ampty grain hina			
Strong thunderstorm winds damaged seven	ai empty grain bins.			
		38, -99.54]		
		38, -99.54]	0.45M	Tornado (EF2, L: 11.98 mi , W: 50 yd)
	.40, -99.79], 3.7 E BURNSTAD [46.	38, -99.54]	0.45M 0	Tornado (EF2, L: 11.98 mi , W: 50 yd) Source: NWS Storm Survey
A National Weather Service storm survey or of Napoleon, then moved east southeast be tornado. The worst damage occurred seven 250 yards, and also destroyed 1,800 feet of grain bin three quarters of one mile to anoth Scale. From that it was determined that wind	.40, -99.79], 3.7 E BURNSTAD [46. 07/10/11 13:40 CST 07/10/11 13:59 CST onfirmed that an EF2 tornado on the effore lifting four miles east of Burns's miles south southwest of Napoleo f shelter belt trees near 100 feet tall her farmstead, where it impacted and speeds with this tornado were are	e Enhanced Fujita tad. No fewer than in, where the tornal East southeast c ind damaged a barr ound 120 miles per	0 Scale touched dow three farmsteads who picked up and the fithis farmstead, the The damage corr	Source: NWS Storm Survey on around seven miles south southwest overe damaged along the path of the nrew an 18 thousand bushel grain bin the tornado lifted and rolled a ten ton
A National Weather Service storm survey or of Napoleon, then moved east southeast be cornado. The worst damage occurred seven 250 yards, and also destroyed 1,800 feet of grain bin three quarters of one mile to anoth Scale. From that it was determined that wind	.40, -99.79], 3.7 E BURNSTAD [46. 07/10/11 13:40 CST 07/10/11 13:59 CST onfirmed that an EF2 tornado on the effore lifting four miles east of Burns's miles south southwest of Napoleo f shelter belt trees near 100 feet tall her farmstead, where it impacted and speeds with this tornado were are 6.03, -99.39], 1.1 SW ASHLEY [46.0	e Enhanced Fujita tad. No fewer than in, where the tornal East southeast c ind damaged a barr ound 120 miles per	O Scale touched dow three farmsteads w do picked up and tf f this farmstead, th . The damage corr hour.	Source: NWS Storm Survey on around seven miles south southwest overe damaged along the path of the nrew an 18 thousand bushel grain bin the tornado lifted and rolled a ten ton responded to EF2 on the Enhanced Fujita
A National Weather Service storm survey or of Napoleon, then moved east southeast be tornado. The worst damage occurred seven 250 yards, and also destroyed 1,800 feet of grain bin three quarters of one mile to anoth Scale. From that it was determined that wind	.40, -99.79], 3.7 E BURNSTAD [46. 07/10/11 13:40 CST 07/10/11 13:59 CST onfirmed that an EF2 tornado on the effore lifting four miles east of Burns in miles south southwest of Napoleo if shelter belt trees near 100 feet tall her farmstead, where it impacted and speeds with this tornado were are decomposed.	e Enhanced Fujita tad. No fewer than in, where the tornal East southeast c ind damaged a barr ound 120 miles per	0 Scale touched dow three farmsteads w do picked up and the f this farmstead, the . The damage correlation. hour.	Source: NWS Storm Survey on around seven miles south southwest overe damaged along the path of the nrew an 18 thousand bushel grain bin the tornado lifted and rolled a ten ton
A National Weather Service storm survey or of Napoleon, then moved east southeast be ornado. The worst damage occurred seven 250 yards, and also destroyed 1,800 feet of grain bin three quarters of one mile to anoth Scale. From that it was determined that win	.40, -99.79], 3.7 E BURNSTAD [46. 07/10/11 13:40 CST 07/10/11 13:59 CST onfirmed that an EF2 tornado on the effore lifting four miles east of Burns's miles south southwest of Napoleo f shelter belt trees near 100 feet tall her farmstead, where it impacted and speeds with this tornado were are 6.03, -99.39], 1.1 SW ASHLEY [46.0	e Enhanced Fujita tad. No fewer than in, where the tornal East southeast c ind damaged a barr ound 120 miles per	O Scale touched dow three farmsteads w do picked up and tf f this farmstead, th . The damage corr hour.	Source: NWS Storm Survey on around seven miles south southwest overe damaged along the path of the new an 18 thousand bushel grain bin the tornado lifted and rolled a ten ton responded to EF2 on the Enhanced Fujita Tornado (EF0, L: 0.93 mi , W: 20 yd)
A National Weather Service storm survey or of Napoleon, then moved east southeast be ornado. The worst damage occurred seven 250 yards, and also destroyed 1,800 feet of grain bin three quarters of one mile to anoth Scale. From that it was determined that win MCINTOSH COUNTY 1.0 W ASHLEY [46]	.40, -99.79], 3.7 E BURNSTAD [46. 07/10/11 13:40 CST 07/10/11 13:59 CST onfirmed that an EF2 tornado on the effore lifting four miles east of Burns's miles south southwest of Napoleo f shelter belt trees near 100 feet tall her farmstead, where it impacted and speeds with this tornado were are decomposed to the shelt of the shell of the shelt of the shell of the shelt of the shell	e Enhanced Fujita tad. No fewer than in, where the tornad I. East southeast on and damaged a barround 120 miles per 02, -99.38]	0 Scale touched dow three farmsteads w do picked up and the f this farmstead, the . The damage correlation. hour.	Source: NWS Storm Survey on around seven miles south southwest overe damaged along the path of the new an 18 thousand bushel grain bin the tornado lifted and rolled a ten ton responded to EF2 on the Enhanced Fujita Tornado (EF0, L: 0.93 mi , W: 20 yd)
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A National Weather Service storm survey or of Napoleon, then moved east southeast be tornado. The worst damage occurred seven 250 yards, and also destroyed 1,800 feet of grain bin three quarters of one mile to anoth Scale. From that it was determined that wind MCINTOSH COUNTY 1.0 W ASHLEY [46]	.40, -99.79], 3.7 E BURNSTAD [46. 07/10/11 13:40 CST 07/10/11 13:59 CST onfirmed that an EF2 tornado on the fore lifting four miles east of Burns'n miles south southwest of Napoleo is shelter belt trees near 100 feet tall ther farmstead, where it impacted and speeds with this tornado were are 6.03, -99.39], 1.1 SW ASHLEY [46.07/10/11 14:34 CST 07/10/11 14:39 CST ley. No damage was reported with 17 [46.21, -98.97] 07/10/11 14:40 CST	e Enhanced Fujita tad. No fewer than in, where the tornad I. East southeast on and damaged a barround 120 miles per 02, -99.38]	O Scale touched dow three farmsteads w do picked up and th f this farmstead, th . The damage corr hour. O 0 15K	Source: NWS Storm Survey vn around seven miles south southwest were damaged along the path of the nrew an 18 thousand bushel grain bin le tornado lifted and rolled a ten ton responded to EF2 on the Enhanced Fujita Tornado (EF0, L: 0.93 mi , W: 20 yd) Source: Law Enforcement Thunderstorm Wind (EG 70 kt)
Strong thunderstorm winds damaged several LOGAN COUNTY 6.9 S NAPOLEON [46. A National Weather Service storm survey or of Napoleon, then moved east southeast be tornado. The worst damage occurred seven 250 yards, and also destroyed 1,800 feet of grain bin three quarters of one mile to anoth Scale. From that it was determined that wind MCINTOSH COUNTY 1.0 W ASHLEY [46] A tornado touched down in a field near Ashled DICKEY COUNTY 10.5 W MERRICOURT	.40, -99.79], 3.7 E BURNSTAD [46. 07/10/11 13:40 CST 07/10/11 13:59 CST onfirmed that an EF2 tornado on the fore lifting four miles east of Burns in miles south southwest of Napoleo is shelter belt trees near 100 feet tall her farmstead, where it impacted and speeds with this tornado were are 6.03, -99.39], 1.1 SW ASHLEY [46.07/10/11 14:34 CST 07/10/11 14:39 CST ley. No damage was reported with	e Enhanced Fujita tad. No fewer than in, where the tornad I. East southeast on and damaged a barround 120 miles per 02, -99.38]	O Scale touched dow three farmsteads w do picked up and tr f this farmstead, th . The damage corr hour. 0 0	Source: NWS Storm Survey on around seven miles south southwest overe damaged along the path of the onew an 18 thousand bushel grain bin the tornado lifted and rolled a ten ton responded to EF2 on the Enhanced Fujita Tornado (EF0, L: 0.93 mi , W: 20 yd) Source: Law Enforcement
A National Weather Service storm survey or of Napoleon, then moved east southeast be tornado. The worst damage occurred seven 250 yards, and also destroyed 1,800 feet of grain bin three quarters of one mile to anoth Scale. From that it was determined that wind MCINTOSH COUNTY 1.0 W ASHLEY [46]	.40, -99.79], 3.7 E BURNSTAD [46. 07/10/11 13:40 CST 07/10/11 13:59 CST onfirmed that an EF2 tornado on the fore lifting four miles east of Burns in miles south southwest of Napoleo if shelter belt trees near 100 feet tall her farmstead, where it impacted and speeds with this tornado were are 6.03, -99.39], 1.1 SW ASHLEY [46.07/10/11 14:39 CST 07/10/11 14:39 CST ley. No damage was reported with	e Enhanced Fujita tad. No fewer than in, where the tornad I. East southeast on and damaged a barround 120 miles per 02, -99.38]	O Scale touched dow three farmsteads w do picked up and th f this farmstead, th . The damage corr hour. O 0 15K	Source: NWS Storm Survey vn around seven miles south southwest were damaged along the path of the nrew an 18 thousand bushel grain bin le tornado lifted and rolled a ten ton responded to EF2 on the Enhanced Fujita Tornado (EF0, L: 0.93 mi , W: 20 yd) Source: Law Enforcement Thunderstorm Wind (EG 70 kt)
A National Weather Service storm survey or of Napoleon, then moved east southeast be tornado. The worst damage occurred seven 250 yards, and also destroyed 1,800 feet of grain bin three quarters of one mile to anoth Scale. From that it was determined that wind MCINTOSH COUNTY 1.0 W ASHLEY [46] A tornado touched down in a field near Ashled County 10.5 W MERRICOURT	.40, -99.79], 3.7 E BURNSTAD [46. 07/10/11 13:40 CST 07/10/11 13:59 CST ornfirmed that an EF2 tornado on the effore lifting four miles east of Burns's miles south southwest of Napoleo if shelter belt trees near 100 feet tall her farmstead, where it impacted and speeds with this tornado were and speeds with this tornado were and 07/10/11 14:34 CST 07/10/11 14:39 CST ley. No damage was reported with 17 [46.21, -98.97] 07/10/11 14:40 CST 07/10/11 14:49 CST in bin.	e Enhanced Fujita tad. No fewer than in, where the tornad. East southeast on damaged a barround 120 miles per 02, -99.38]	O Scale touched dow three farmsteads w do picked up and th f this farmstead, th . The damage corr hour. O 0 15K	Source: NWS Storm Survey vn around seven miles south southwest were damaged along the path of the nrew an 18 thousand bushel grain bin le tornado lifted and rolled a ten ton responded to EF2 on the Enhanced Fujita Tornado (EF0, L: 0.93 mi , W: 20 yd) Source: Law Enforcement Thunderstorm Wind (EG 70 kt)
A National Weather Service storm survey or of Napoleon, then moved east southeast be tornado. The worst damage occurred seven 250 yards, and also destroyed 1,800 feet of grain bin three quarters of one mile to anoth Scale. From that it was determined that wind MCINTOSH COUNTY 1.0 W ASHLEY [46] A tornado touched down in a field near Ashled DICKEY COUNTY 10.5 W MERRICOURT Strong thunderstorm winds blew over a grain strong the strong thunderstorm winds blew over a grain strong the strong thunderstorm winds blew over a grain strong the strong thunderstorm winds blew over a grain strong the strong through the stro	.40, -99.79], 3.7 E BURNSTAD [46. 07/10/11 13:40 CST 07/10/11 13:59 CST ornfirmed that an EF2 tornado on the effore lifting four miles east of Burns's miles south southwest of Napoleo if shelter belt trees near 100 feet tall her farmstead, where it impacted and speeds with this tornado were and speeds with this tornado were and 07/10/11 14:34 CST 07/10/11 14:39 CST ley. No damage was reported with 17 [46.21, -98.97] 07/10/11 14:40 CST 07/10/11 14:49 CST in bin.	e Enhanced Fujita tad. No fewer than in, where the tornad. East southeast on damaged a barround 120 miles per 02, -99.38]	O Scale touched dow three farmsteads w do picked up and th f this farmstead, th . The damage corr hour. O 0 15K	Source: NWS Storm Survey vn around seven miles south southwest were damaged along the path of the nrew an 18 thousand bushel grain bin le tornado lifted and rolled a ten ton responded to EF2 on the Enhanced Fujita Tornado (EF0, L: 0.93 mi , W: 20 yd) Source: Law Enforcement Thunderstorm Wind (EG 70 kt)

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A National Weather Service Storm Survey was 45 mile long and 4 mile wide damage swath, alc path also had severe wind damage. Near Merric was observed, including a large hardwood tree Fullerton, along with several large trees snappe 200 foot radio station tower. Damage across Did	ong with thousands of acres of court, damage was observed to with the diameter of 22 inches. d or uprooted. Around Oakes,	crop damage due to a home and to seve A pole barn and two	wind driven hail. eral farm vehicles o grain bins were	Several communities along the damage In Monango, extensive tree damage destroyed two miles south of
DICKEY COUNTY 6.0 NW MERRICOURT [46	6.26, -98.84], 5.5 NW MERRICO	DURT [46.26, -98.83]		
	07/10/11 14:48 CST 07/10/11 14:50 CST		75K 0	Tornado (EF1, L: 0.49 mi , W: 25 yd) Source: NWS Storm Survey
A National Weather Service storm survey confir Merricourt. There was an eye witness to the torn end EF1 on the Enhanced Fujita Scale. From the	nado. A pole barn was damage	d along with numero	ous trees snapped	d. The damage corresponded to low
DICKEY COUNTY 6.1 W FORBES [45.94, -98-	8.90], 8.8 WNW MERRICOURT	[46.26, -98.91], 4.5	NNE GLOVER [40	6.29, -98.08], 6.9 SE LUDDEN [45.94,
-90.01]	07/10/11 15:00 CST		0.50M	Flood (due to Heavy Rain)
	07/10/11 23:00 CST		0	Source: Emergency Manager
Persistent thunderstorms with heavy rain over a County.	long period of time brought wid	despread flooding to	many county and	d township roads across Dickey
LA MOURE COUNTY 8.6 W EDGELEY [46.3	6, -98.88] 07/10/11 15:02 CST		0	Thunderstorm Wind (EG 52 kt)
	07/10/11 15:06 CST		0	Source: Law Enforcement
Small hail accompanied the strong winds. DICKEY COUNTY 0.5 W MONANGO [46.17,	-98.591. 0.2 SW MONANGO [4	6.1798.581		
,	07/10/11 15:04 CST	,	0	Tornado (EF0, L: 0.38 mi , W: 25 yd)
	07/10/11 15:06 CST		0	Source: Trained Spotter
A trained weather spotter reported a tornado on with the straight line winds. The tornado was rep	-			reported. Damage was associated
MCINTOSH COUNTY 12.1 ESE ASHLEY [45	•		=1.4	T
	07/10/11 15:09 CST		7K	Thunderstorm Wind (EG 52 kt)
	07/10/11 15:13 CST		0	Source: Trained Spotter
Strong thunderstorm winds blew shingles off of	a roof.			
LA MOURE COUNTY 5.8 W EDGELEY [46.3				
	07/10/11 15:30 CST		25K	Thunderstorm Wind (EG 70 kt)
	07/10/11 15:30 CST		0	Source: Storm Chaser
Strong thunderstorm winds blew grain bins over	. .			
DICKEY COUNTY 0.8 NW FULLERTON [46.	18, -98.43]			
	07/10/11 15:31 CST		25K	Thunderstorm Wind (EG 70 kt)
.	07/10/11 15:31 CST		0	Source: Trained Spotter
Strong thunderstorm winds blew numerous tree	branches down.			
DICKEY COUNTY 0.5 E ELLENDALE [46.00			4514	
	07/10/11 15:35 CST		15K	Thunderstorm Wind (EG 70 kt)
	07/10/11 15:35 CST		0	Source: Amateur Radio
Strong thunderstorm winds resulted in roof dam	age.			

DICKEY COUNTY --- 3.1 SSW GLOVER [46.19, -98.16], 3.2 SSW GLOVER [46.19, -98.16]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/10/11 15:35 CST		0	Tornado (EF0, L: 0.14 mi , W: 20 yd)
	07/10/11 15:36 CST		0	Source: Public
visual confirmation of a brief tornado touchd vith no damage attributed to it.	own was received. The tornado	was reported to ha	ve touched down ii	n open fields northwest of Oakes,
DICKEY COUNTY 0.7 N LUDDEN [46.01, -	98.13] 07/10/11 15:42 CST		50K	Thundaratarm Wind (EC 70 kt)
	07/10/11 15:42 CST		0	Thunderstorm Wind (EG 70 kt) Source: Amateur Radio
Strong thunderstorm winds resulted in numero		wn around Ludder		
A strong upper level jet streak moving into to for July 10th over southwest North Dakota. Loverage of storms became more widespreasast into south central and southeast North more intense necessitating the issuance of avorable deep layer sheer produced a favor Multiple severe thunderstorm warnings and and destructive thunderstorm winds were re	arge hail up to two inches in di ad, Severe Thunderstorm Watch Dakota during the afternoon, th Tornado Watch number 617. Co rable environment for very large several tornado warnings were	ameter was report in number 616 was ney became rooted onsiderable veering e hail, damaging w e issued during thi	ted with these stor issued. Once the d in the boundary ng winds with heig vinds, and isolated s event. Numerous	ms. As the aerial storms advected to the layer and became much with, strong instability, and I tornadoes.
oncluded that four confirmed tornadoes oc		ding EF2 tornado	damage seven mil	es south of Napoleon.
-	07/14/11 22:50 MST		0	Thunderstorm Wind (EG 52 kt)
	07/14/11 22:55 MST		0	Source: Trained Spotter
A report of strong winds was received.				
DUNN COUNTY 1.7 SE HALLIDAY [47.33,	-		0	Thunderstorm Wind (EC 56 kt)
	07/14/11 23:45 MST 07/14/11 23:45 MST		0	Thunderstorm Wind (EG 56 kt) Source: Law Enforcement
Heavy rain accompanied the strong winds.	0.7.1 20.10		·	20010012011211010011011
FOSTER COUNTY CARRINGTON ARPT [4	17.45, -99.15]			
	07/15/11 00:05 CST		0	Thunderstorm Wind (MG 52 kt)
	07/15/11 00:11 CST		0	Source: AWOS
	N ARPT [47.46, -99.15], 1.7 NE C	ARRINGTON [47.4	17, -99.10], 1.7 ESE	E CARRINGTON [47.44, -99.10], 1.0 SSW
	N ARPT [47.46, -99.15], 1.7 NE C	ARRINGTON [47.4	17, -99.10], 1.7 ESE	E CARRINGTON [47.44, -99.10], 1.0 SSW Flash Flood (due to Heavy Rain)
FOSTER COUNTY 0.7 NNW CARRINGTON CARRINGTON ARPT [47.44, -99.16]		ARRINGTON [47.4	_	
CARRINGTON ARPT [47.44, -99.16] Very heavy rain resulted in water over one foo flooding occurred. Two to Four inches of rain f	07/15/11 00:23 CST 07/15/11 05:00 CST at deep in parts of Carrington. Su fell in this area. There were no sp	rrounding areas ha	70K 0 ad water running ov	Flash Flood (due to Heavy Rain) Source: Law Enforcement rer low water crossings. Basement
CARRINGTON ARPT [47.44, -99.16] Very heavy rain resulted in water over one foo flooding occurred. Two to Four inches of rain f Stutsman County, there were several reports of	07/15/11 00:23 CST 07/15/11 05:00 CST of deep in parts of Carrington. Su fell in this area. There were no sp of around three inches of rain.	rrounding areas ha	70K 0 ad water running ov nounts around Car	Flash Flood (due to Heavy Rain) Source: Law Enforcement rer low water crossings. Basement rington, however, to the south, in
	07/15/11 00:23 CST 07/15/11 05:00 CST of deep in parts of Carrington. Su fell in this area. There were no sp of around three inches of rain.	rrounding areas ha	70K 0 ad water running over the control of the cont	Flash Flood (due to Heavy Rain) Source: Law Enforcement rer low water crossings. Basement rington, however, to the south, in Hail (0.88 in)
CARRINGTON ARPT [47.44, -99.16] Very heavy rain resulted in water over one foo flooding occurred. Two to Four inches of rain f Stutsman County, there were several reports of	07/15/11 00:23 CST 07/15/11 05:00 CST of deep in parts of Carrington. Su fell in this area. There were no sp of around three inches of rain.	rrounding areas ha	70K 0 ad water running ov nounts around Car	Flash Flood (due to Heavy Rain) Source: Law Enforcement rer low water crossings. Basement rington, however, to the south, in
CARRINGTON ARPT [47.44, -99.16] Very heavy rain resulted in water over one foo flooding occurred. Two to Four inches of rain f Stutsman County, there were several reports of MCLEAN COUNTY GARRISON [47.65, -10]	07/15/11 00:23 CST 07/15/11 05:00 CST at deep in parts of Carrington. Su fell in this area. There were no sp of around three inches of rain. 1.42] 07/15/11 01:43 CST 07/15/11 01:48 CST	rrounding areas ha	70K 0 ad water running ov mounts around Car 0 0	Flash Flood (due to Heavy Rain) Source: Law Enforcement rer low water crossings. Basement rington, however, to the south, in Hail (0.88 in) Source: Law Enforcement
CARRINGTON ARPT [47.44, -99.16] Very heavy rain resulted in water over one foo flooding occurred. Two to Four inches of rain f Stutsman County, there were several reports of MCLEAN COUNTY GARRISON [47.65, -10]	07/15/11 00:23 CST 07/15/11 05:00 CST at deep in parts of Carrington. Su fell in this area. There were no sp of around three inches of rain. 1.42] 07/15/11 01:43 CST 07/15/11 01:48 CST	rrounding areas ha	70K 0 ad water running ov mounts around Car 0 0	Flash Flood (due to Heavy Rain) Source: Law Enforcement rer low water crossings. Basement rington, however, to the south, in Hail (0.88 in) Source: Law Enforcement

Severe Thunderstorm Watch number 645 was issued during the mid evening of the 14th for much of west and portions of central North

Dakota in anticipation of stronger storms over eastern Montana advecting east into North Dakota through the early morning hours of the

2.50 to three inches were received from the Kensal to Wimbledon area. There were no reports of damage to buildings. Repairs were needed to some minor

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Deaths &

Injuries

Property &

Crop Dmg

Event Type and Details

Date/Time

Location

In addition, storms developed east of the watch area over east central North Dakota in response to an intensifying low level jet. One report of a severe thunderstorm wind gust was received. The main impact from these storms over the northern James River Basin was heavy rain and flash flooding.				
MCKENZIE COUNTY 24.8 WNW GRASSY BUTTE [47.47, -103.77]				
07/15/11 22:10 MST	10K	Thunderstorm Wind (EG 56 kt)		
07/15/11 22:20 MST	0	Source: COOP Observer		
strong thunderstorm winds blew down several trees.				
MOUNTRAIL COUNTY 0.5 W STANLEY [48.32, -102.39]				
07/16/11 00:21 CST	5K	Thunderstorm Wind (MG 54 kt)		
07/16/11 00:31 CST	0	Source: AWOS		
tree that was two and one half feet in diameter, and 30 feet tall, was snapped.				
ICLEAN COUNTY 7.0 N EMMET [47.75, -101.67]				
07/16/11 00:59 CST	0	Thunderstorm Wind (MG 50 kt)		
07/16/11 01:09 CST	0	Source: Mesonet		
MOVENIJE COLINTY 0.7.9 CDASSY DUTTE 147.90 499.051				
ICKENZIE COUNTY 0.7 S GRASSY BUTTE [47.39, -103.25] 07/16/11 02:13 MST	0	Hail (0.88 in)		
07/16/11 02:13 MST	0	Source: COOP Observer		
5	Ť	- 1 2/2/2 2 2 2 1 2 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
MERCER COUNTY 0.7 S BEULAH [47.26, -101.78]				
07/16/11 05:55 CST	0	Hail (1.75 in)		
07/16/11 06:10 CST	0	Source: Law Enforcement		
/IERCER COUNTY 1.6 WNW BEULAH [47.28101.81]				
MERCER COUNTY 1.6 WNW BEULAH [47.28, -101.81] 07/16/11 05:55 CST	0	Hail (1.75 in)		
	0 0.10M	Hail (1.75 in) Source: COOP Observer		
07/16/11 05:55 CST 07/16/11 06:10 CST Hail size ranged from ping pong ball to golfball sized. Strong winds up to 60 miles per ho	0.10M	Source: COOP Observer		
07/16/11 05:55 CST 07/16/11 06:10 CST Hail size ranged from ping pong ball to golfball sized. Strong winds up to 60 miles per holamage. MERCER COUNTY 2.0 NW BEULAH [47.29, -101.81]	0.10M our accompanied the hail.	Source: COOP Observer The wind driven hail resulted in area crop		
07/16/11 05:55 CST 07/16/11 06:10 CST Hail size ranged from ping pong ball to golfball sized. Strong winds up to 60 miles per hodamage. MERCER COUNTY 2.0 NW BEULAH [47.29, -101.81] 07/16/11 05:55 CST	0.10M our accompanied the hail.	Source: COOP Observer The wind driven hail resulted in area crop Thunderstorm Wind (EG 52 kt)		
07/16/11 05:55 CST 07/16/11 06:10 CST Hail size ranged from ping pong ball to golfball sized. Strong winds up to 60 miles per holamage. MERCER COUNTY 2.0 NW BEULAH [47.29, -101.81]	0.10M our accompanied the hail.	Source: COOP Observer The wind driven hail resulted in area crop		
07/16/11 05:55 CST 07/16/11 06:10 CST Hail size ranged from ping pong ball to golfball sized. Strong winds up to 60 miles per holamage. MERCER COUNTY 2.0 NW BEULAH [47.29, -101.81] 07/16/11 05:55 CST 07/16/11 06:10 CST	0.10M our accompanied the hail.	Source: COOP Observer The wind driven hail resulted in area crop Thunderstorm Wind (EG 52 kt)		
07/16/11 06:10 CST Hail size ranged from ping pong ball to golfball sized. Strong winds up to 60 miles per hotamage. MERCER COUNTY 2.0 NW BEULAH [47.29, -101.81] 07/16/11 05:55 CST 07/16/11 06:10 CST Large hail accompanied the strong winds.	0.10M our accompanied the hail.	Source: COOP Observer The wind driven hail resulted in area crop Thunderstorm Wind (EG 52 kt) Source: COOP Observer		
07/16/11 05:55 CST 07/16/11 06:10 CST Hail size ranged from ping pong ball to golfball sized. Strong winds up to 60 miles per holamage. MERCER COUNTY 2.0 NW BEULAH [47.29, -101.81] 07/16/11 05:55 CST 07/16/11 06:10 CST arge hail accompanied the strong winds. MERCER COUNTY 1.6 WNW BEULAH [47.28, -101.81] 07/16/11 06:00 CST	0.10M our accompanied the hail. 0 0 0	Source: COOP Observer The wind driven hail resulted in area crop Thunderstorm Wind (EG 52 kt) Source: COOP Observer Hail (1.00 in)		
07/16/11 05:55 CST 07/16/11 06:10 CST Hail size ranged from ping pong ball to golfball sized. Strong winds up to 60 miles per hot lamage. MERCER COUNTY 2.0 NW BEULAH [47.29, -101.81] 07/16/11 05:55 CST 07/16/11 06:10 CST Large hail accompanied the strong winds.	0.10M our accompanied the hail. 0 0	Source: COOP Observer The wind driven hail resulted in area crop Thunderstorm Wind (EG 52 kt) Source: COOP Observer		
07/16/11 05:55 CST 07/16/11 06:10 CST Hail size ranged from ping pong ball to golfball sized. Strong winds up to 60 miles per hotamage. MERCER COUNTY 2.0 NW BEULAH [47.29, -101.81] 07/16/11 05:55 CST 07/16/11 06:10 CST .arge hail accompanied the strong winds. MERCER COUNTY 1.6 WNW BEULAH [47.28, -101.81] 07/16/11 06:00 CST 07/16/11 06:09 CST	0.10M our accompanied the hail. 0 0 0	Source: COOP Observer The wind driven hail resulted in area crop Thunderstorm Wind (EG 52 kt) Source: COOP Observer Hail (1.00 in)		
07/16/11 05:55 CST 07/16/11 06:10 CST Hail size ranged from ping pong ball to golfball sized. Strong winds up to 60 miles per hotamage. MERCER COUNTY 2.0 NW BEULAH [47.29, -101.81] 07/16/11 05:55 CST 07/16/11 06:10 CST Large hail accompanied the strong winds. MERCER COUNTY 1.6 WNW BEULAH [47.28, -101.81] 07/16/11 06:00 CST 07/16/11 06:09 CST	0.10M our accompanied the hail. 0 0 0	Source: COOP Observer The wind driven hail resulted in area crop Thunderstorm Wind (EG 52 kt) Source: COOP Observer Hail (1.00 in) Source: COOP Observer		
07/16/11 05:55 CST 07/16/11 06:10 CST Hail size ranged from ping pong ball to golfball sized. Strong winds up to 60 miles per holamage. MERCER COUNTY 2.0 NW BEULAH [47.29, -101.81] 07/16/11 05:55 CST 07/16/11 06:10 CST Arge hail accompanied the strong winds. MERCER COUNTY 1.6 WNW BEULAH [47.28, -101.81] 07/16/11 06:00 CST 07/16/11 06:09 CST	0.10M our accompanied the hail. 0 0 0	Source: COOP Observer The wind driven hail resulted in area crop Thunderstorm Wind (EG 52 kt) Source: COOP Observer Hail (1.00 in)		
07/16/11 05:55 CST 07/16/11 06:10 CST lail size ranged from ping pong ball to golfball sized. Strong winds up to 60 miles per ho amage. MERCER COUNTY 2.0 NW BEULAH [47.29, -101.81] 07/16/11 05:55 CST 07/16/11 06:10 CST arge hail accompanied the strong winds. MERCER COUNTY 1.6 WNW BEULAH [47.28, -101.81] 07/16/11 06:00 CST 07/16/11 06:09 CST	0.10M our accompanied the hail. 0 0 0	Source: COOP Observer The wind driven hail resulted in area crop Thunderstorm Wind (EG 52 kt) Source: COOP Observer Hail (1.00 in) Source: COOP Observer Hail (0.88 in)		
07/16/11 05:55 CST 07/16/11 06:10 CST Hail size ranged from ping pong ball to golfball sized. Strong winds up to 60 miles per hotamage. MERCER COUNTY 2.0 NW BEULAH [47.29, -101.81] 07/16/11 05:55 CST 07/16/11 06:10 CST Large hail accompanied the strong winds. MERCER COUNTY 1.6 WNW BEULAH [47.28, -101.81] 07/16/11 06:00 CST 07/16/11 06:09 CST MERCER COUNTY 0.8 SW HAZEN [47.29, -101.64] 07/16/11 06:16 CST 07/16/11 06:20 CST	0.10M our accompanied the hail. 0 0 0 0	Source: COOP Observer The wind driven hail resulted in area crop Thunderstorm Wind (EG 52 kt) Source: COOP Observer Hail (1.00 in) Source: COOP Observer Hail (0.88 in) Source: Trained Spotter		
07/16/11 05:55 CST 07/16/11 06:10 CST Hail size ranged from ping pong ball to golfball sized. Strong winds up to 60 miles per holamage. MERCER COUNTY 2.0 NW BEULAH [47.29, -101.81] 07/16/11 05:55 CST 07/16/11 06:10 CST Large hail accompanied the strong winds. MERCER COUNTY 1.6 WNW BEULAH [47.28, -101.81] 07/16/11 06:00 CST 07/16/11 06:09 CST MERCER COUNTY 0.8 SW HAZEN [47.29, -101.64] 07/16/11 06:16 CST 07/16/11 06:20 CST	0.10M our accompanied the hail. 0 0 0	Source: COOP Observer The wind driven hail resulted in area crop Thunderstorm Wind (EG 52 kt) Source: COOP Observer Hail (1.00 in) Source: COOP Observer Hail (0.88 in) Source: Trained Spotter Thunderstorm Wind (MG 62 kt)		
07/16/11 05:55 CST 07/16/11 06:10 CST Hail size ranged from ping pong ball to golfball sized. Strong winds up to 60 miles per holamage. MERCER COUNTY 2.0 NW BEULAH [47.29, -101.81] 07/16/11 05:55 CST 07/16/11 06:10 CST Large hail accompanied the strong winds. MERCER COUNTY 1.6 WNW BEULAH [47.28, -101.81] 07/16/11 06:00 CST 07/16/11 06:09 CST MERCER COUNTY 0.8 SW HAZEN [47.29, -101.64] 07/16/11 06:16 CST 07/16/11 06:20 CST	0.10M our accompanied the hail. 0 0 0 0	Source: COOP Observer The wind driven hail resulted in area crop Thunderstorm Wind (EG 52 kt) Source: COOP Observer Hail (1.00 in) Source: COOP Observer Hail (0.88 in) Source: Trained Spotter		
07/16/11 05:55 CST 07/16/11 06:10 CST Hail size ranged from ping pong ball to golfball sized. Strong winds up to 60 miles per holamage. MERCER COUNTY 2.0 NW BEULAH [47.29, -101.81] 07/16/11 05:55 CST 07/16/11 06:10 CST arge hail accompanied the strong winds. MERCER COUNTY 1.6 WNW BEULAH [47.28, -101.81] 07/16/11 06:00 CST 07/16/11 06:09 CST MERCER COUNTY 0.8 SW HAZEN [47.29, -101.64] 07/16/11 06:16 CST 07/16/11 06:20 CST	0.10M our accompanied the hail. 0 0 0 0 0	Source: COOP Observer The wind driven hail resulted in area crop Thunderstorm Wind (EG 52 kt) Source: COOP Observer Hail (1.00 in) Source: COOP Observer Hail (0.88 in) Source: Trained Spotter Thunderstorm Wind (MG 62 kt)		
07/16/11 05:55 CST 07/16/11 06:10 CST Hail size ranged from ping pong ball to golfball sized. Strong winds up to 60 miles per holamage. MERCER COUNTY 2.0 NW BEULAH [47.29, -101.81] 07/16/11 05:55 CST 07/16/11 06:10 CST Large hail accompanied the strong winds. MERCER COUNTY 1.6 WNW BEULAH [47.28, -101.81] 07/16/11 06:00 CST 07/16/11 06:09 CST MERCER COUNTY 0.8 SW HAZEN [47.29, -101.64] 07/16/11 06:16 CST 07/16/11 06:20 CST	0.10M our accompanied the hail. 0 0 0 0 0	Source: COOP Observer The wind driven hail resulted in area crop Thunderstorm Wind (EG 52 kt) Source: COOP Observer Hail (1.00 in) Source: COOP Observer Hail (0.88 in) Source: Trained Spotter Thunderstorm Wind (MG 62 kt)		

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MCLEAN COUNTY 1.2 SE WILTON [47.16, -10	0.78]			
	07/16/11 07:32 CST		0	Hail (1.00 in)
	07/16/11 07:39 CST		0	Source: Public
BURLEIGH COUNTY 0.7 N REGAN [47.16, -10	0.53]			
	07/16/11 07:40 CST		0	Hail (1.00 in)
	07/16/11 07:46 CST		0	Source: Trained Spotter
MCLEAN COUNTY 0.8 NW WASHBURN [47.29	9, -101.03]			
	07/16/11 07:55 CST		0	Hail (1.00 in)
	07/16/11 08:02 CST		0	Source: Trained Spotter
BURLEIGH COUNTY 0.7 N WING [47.14, -100.				
	07/16/11 08:00 CST		0	Hail (0.88 in)
	07/16/11 08:06 CST		0	Source: Trained Spotter

Two rounds of storms occurred during this event. The first round started in the late evening of the 15th and lasted about two hours. Thunderstorms over eastern Montana moved into west central North Dakota before midnight.

The second round of storms started around five in the morning central time on the 16th and continued past daybreak. These storms rapidly intensified before sunrise as a nocturnal low level jet combined with strong instability and favorable deep layer wind shear.

(ND-Z001) DIVIDE, (ND-Z002) BURKE, (ND-Z003) RENVILLE, (ND-Z004) BOTTINEAU, (ND-Z005) ROLETTE, (ND-Z009) WILLIAMS, (ND-Z010) MOUNTRAIL, (ND-Z011) WARD, (ND-Z012) MCHENRY, (ND-Z013) PIERCE, (ND-Z017) MCKENZIE, (ND-Z018) DUNN, (ND-Z019) MERCER, (ND-Z020) OLIVER, (ND-Z021) MCLEAN, (ND-Z022) SHERIDAN, (ND-Z023) WELLS, (ND-Z025) FOSTER, (ND-Z031) GOLDEN VALLEY, (ND-Z032) BILLINGS, (ND-Z033) STARK, (ND-Z034) MORTON, (ND-Z035) BURLEIGH, (ND-Z036) KIDDER, (ND-Z037) STUTSMAN, (ND-Z040) SLOPE, (ND-Z041) HETTINGER, (ND-Z042) GRANT, (ND-Z043) BOWMAN, (ND-Z044) ADAMS, (ND-Z045) SIOUX, (ND-Z046) EMMONS, (ND-Z047) LOGAN, (ND-Z048) LA MOURE, (ND-Z050) MCINTOSH, (ND-Z051) DICKEY

Upper level high pressure centered over the Central Plains, coupled with persistent low pressure over the Rockies, brought a prolonged period of above seasonal temperatures and high humidity to west and central North Dakota. Daytime temperatures in the 90s combined with the high humidity to produce heat index values well over 100 degrees for many locations for several days. Heat index values topped out between 110 and 120 degrees, not a common thing in North Dakota.

Although no human life was lost and no injuries were reported, there were livestock losses associated with the heat. It is estimated that up to 700 head of cattle died from the heat wave. Estimated at near 1,000 dollars per head, monetary damages are estimated at near 700,000 dollars. A detailed breakdown by county was not available so the losses were all assigned to one county in southwest North Dakota, Slope.

BURLEIGH COUNTY 8.5 N REGAN [47.27, -100.53], 12.5 N REGAN [47.33, -100.51]	
---	--

 07/16/11 16:35 CST
 10K
 Tornado (EF1, L: 4.05 mi , W: 50 yd)

 07/16/11 16:46 CST
 0
 Source: Law Enforcement

This tornado crossed from Burleigh into Sheridan County. It was reported by a North Dakota Game Warden and also by professional storm chasers. It was in open country with no buildings impacted, however, large trees were uprooted and snapped, including one that was two and a half feet in diameter. The tornado damage corresponded to EF1 on the Enhanced Fujita Scale and from that it was determined that wind speeds with the tornado were on the order of 100 miles per hour. This tornado crossed into Sheridan County. See the entry for Sheridan County.

SHERIDAN COUNTY --- 10.2 SSE PICKARDVILLE [47.33, -100.51], 8.5 SSE PICKARDVILLE [47.36, -100.50]

 07/16/11 16:46 CST
 0
 Tornado (EF1, L: 2.13 mi , W: 50 yd)

 07/16/11 16:51 CST
 0
 Source: Law Enforcement

07710711 10.31 CS1 0 Source. Law Enforcement

This tornado crossed from Burleigh into Sheridan County. It was reported by a North Dakota Game Warden and also by professional storm chasers. It was in open country with no buildings impacted, however, large trees were uprooted and snapped, including one that was two and a half feet in diameter. That occurred in Burleigh County, which resulted in the EF1 rating. The tornado weakened and lifted in Sheridan County with no damage reported. The tornado damage, from Burleigh County, corresponded to EF1 on the Enhanced Fujita Scale and from that it was determined that wind speeds with the tornado were on the order of 100 miles per hour. This tornado crossed into Sheridan County from Burleigh. See the entry for Burleigh County.

WELLS COUNTY --- 9.1 SSW BOWDON [47.35, -99.65], 9.0 S HEATON [47.35, -99.53]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/16/11 18:31 CST		0	Tornado (EF0, L: 5.62 mi , W: 30 yd)
	07/16/11 18:45 CST		0	Source: Storm Chaser
This tornado touched down in the ope	n country. There were no reports of dam	age associated wit	h this tornado.	
WELLS COUNTY 5.4 S BOWDON	[47.39, -99.58], 5.6 S BOWDON [47.39, -	99.55]		
	07/16/11 18:38 CST	-	0	Tornado (EF0, L: 1.17 mi , W: 30 yd)
	07/16/11 18:41 CST		0	Source: Newspaper
This tornado touched down in the ope	n country. There were no reports of dam	age associated wit	h this tornado.	
FOSTER COUNTY 3.5 S MC HENR	Y [47.53, -98.59]			
	07/16/11 19:41 CST		0	Funnel Cloud
	07/16/11 19:41 CST		0	Source: Trained Spotter
KIDDER COUNTY 13.0 NNE LAKE	WILLIAMS [47.31, -99.52]			
	07/16/11 20:30 CST		0	Funnel Cloud
	07/16/11 20:30 CST		0	Source: Public
EMMONS COUNTY 7.8 ESE LINTO	ON [46.25, -100.07], 9.6 E LINTON MUNI	ARPT [46.24, -100	.03]	
	07/16/11 20:47 CST		30K	Tornado (EF0, L: 1.86 mi , W: 30 yd)
	07/16/11 20:51 CST		50K	Source: Law Enforcement
·	n country. Although there were no report		•	•
determined that wind speeds were arc	ound 85 miles per hour.	-		
WELLS COUNTY 3.6 SSW SYKES	TON [47.42, -99.40], 1.2 ESE SYKESTOI	N [47.46, -99.36], 6	.8 E SYKESTON [4	17.46, -99.23], 5.5 SE SYKESTON [47.42,
99.28]				
	07/16/11 21:07 CST		50K	Flash Flood (due to Heavy Rain)
	07/17/11 00:15 CST		0	Source: Emergency Manager

Very heavy rain, estimated at near seven inches peak based on radar, fell over southeast Wells County. Roads in the area were flooded and damaged.

Tornado Watch number 649 was issued in the late afternoon of July 16th in anticipation of supercell thunderstorm development. A weak surface trough and low level convergence zone combined with a very unstable air mass with CAPE up to 4,000 Joules per Kilogram over south central North Dakota. This environment proved sufficient for tornadoes to develop.

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Location Date/Time Deaths & Property & Event Type and Details Injuries Crop Dmg



Tornado photo taken along the Burleigh and Sheridan County line on July 16, 2011. Courtesy of Jackie Lundstrom, a North Dakota Game Warden.

WARD COUNTY 9.0 NE RYDER [48.01, -101.53]			
	07/17/11 08:48 CST	0	Hail (1.75 in)	
	07/17/11 08:53 CST	0	Source: Public	
WARD COUNTY 6.4 SSW SURRE	Y [48.14, -101.16]			
	07/17/11 09:10 CST	0	Hail (2.50 in)	
	07/17/11 09:18 CST	0	Source: Public	
There were no reports of damage as	sociated with the large hail.			
WARD COUNTY 10.0 SW SAWYE	ER [47.98, -101.20]			
WARD COUNTY 10.0 SW SAWYE	ER [47.98, -101.20] 07/17/11 09:11 CST	0	Thunderstorm Wind (MG 56 kt)	
WARD COUNTY 10.0 SW SAWYE		0	Thunderstorm Wind (MG 56 kt) Source: Amateur Radio	
WARD COUNTY 10.0 SW SAWYE WARD COUNTY 4.2 S SAWYER	07/17/11 09:11 CST 07/17/11 09:16 CST		· · · ·	
	07/17/11 09:11 CST 07/17/11 09:16 CST		· · · ·	

MCHENRY COUNTY --- 2.8 S VELVA [48.03, -100.93]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/17/11 09:38 CST	,	0.15M	Hail (2.75 in)
	07/17/11 09:44 CST		0.25M	Source: Public
⁻ he large hail caused damage to area cr		siding, and vehicle		
MCHENRY COUNTY 0.5 W VOLTAIR	E [48.02, -100.84] 07/17/11 09:40 CST		0	Hail (1.75 in)
	07/17/11 09:47 CST		0	Source: Public
MCHENRY COUNTY 0.5 E BERGEN	[48.00, -100.71]			
	07/17/11 09:50 CST		0	Hail (1.75 in)
	07/17/11 09:56 CST		0	Source: Public
MCHENRY COUNTY 0.5 W BALFOUI	R [47.95, -100.54]			
	07/17/11 09:56 CST		0	Hail (2.75 in)
	07/17/11 10:10 CST		0	Source: Public
There were no reports of damage associ	iated with the large hail. Strong winds	accompanied the la	arge hail.	
MCHENRY COUNTY BALFOUR [47.9	95, -100.53]			
	07/17/11 09:56 CST		0	Thunderstorm Wind (EG 52 kt)
	07/17/11 10:01 CST		0	Source: Public
Large hail accompanied the strong winds	S.			
MCHENRY COUNTY 0.5 W BALFOU	R [47.95100.54]			
MCHENRY COUNTY 0.5 W BALFOU	R [47.95, -100.54] 07/17/11 10:06 CST		0	Hail (2.75 in)
	07/17/11 10:06 CST 07/17/11 10:11 CST		0	Hail (2.75 in) Source: Public
There were no reports of damage associ	07/17/11 10:06 CST 07/17/11 10:11 CST iated with the large hail. ARPT [47.83, -99.91], 2.3 NNE HARVE 07/17/11 10:48 CST	Y ARPT [47.83, -9!	0 9.91] 0	Source: Public Tomado (EF0, L: 0.04 mi , W: 20 yd)
There were no reports of damage associ	07/17/11 10:06 CST 07/17/11 10:11 CST iated with the large hail. ARPT [47.83, -99.91], 2.3 NNE HARVE 07/17/11 10:48 CST 07/17/11 10:49 CST		0 9.91] 0 0	Source: Public
There were no reports of damage associ	07/17/11 10:06 CST 07/17/11 10:11 CST iated with the large hail. ARPT [47.83, -99.91], 2.3 NNE HARVE 07/17/11 10:48 CST 07/17/11 10:49 CST		0 9.91] 0 0	Source: Public Tomado (EF0, L: 0.04 mi , W: 20 yd)
There were no reports of damage associ WELLS COUNTY 2.3 NNE HARVEY A This tornado touched down in the open of	07/17/11 10:06 CST 07/17/11 10:11 CST iated with the large hail. ARPT [47.83, -99.91], 2.3 NNE HARVE 07/17/11 10:48 CST 07/17/11 10:49 CST country. There were no impacts to stru		0 9.91] 0 0 eports of damage.	Source: Public Tornado (EF0, L: 0.04 mi , W: 20 yd) Source: Public
There were no reports of damage associ WELLS COUNTY 2.3 NNE HARVEY A This tornado touched down in the open of	07/17/11 10:06 CST 07/17/11 10:11 CST iated with the large hail. ARPT [47.83, -99.91], 2.3 NNE HARVE 07/17/11 10:48 CST 07/17/11 10:49 CST country. There were no impacts to stru		0 9.91] 0 0 eports of damage.	Source: Public Tornado (EF0, L: 0.04 mi , W: 20 yd) Source: Public Hail (0.88 in)
There were no reports of damage associ WELLS COUNTY 2.3 NNE HARVEY A This tornado touched down in the open of	07/17/11 10:06 CST 07/17/11 10:11 CST iated with the large hail. ARPT [47.83, -99.91], 2.3 NNE HARVE 07/17/11 10:48 CST 07/17/11 10:49 CST country. There were no impacts to stru		0 9.91] 0 0 eports of damage.	Source: Public Tornado (EF0, L: 0.04 mi , W: 20 yd) Source: Public
There were no reports of damage associ WELLS COUNTY 2.3 NNE HARVEY A This tornado touched down in the open of WELLS COUNTY 3.7 NNW HEIMDAL	07/17/11 10:06 CST 07/17/11 10:11 CST iated with the large hail. ARPT [47.83, -99.91], 2.3 NNE HARVE 07/17/11 10:48 CST 07/17/11 10:49 CST country. There were no impacts to stru . [47.85, -99.65] 07/17/11 11:18 CST 07/17/11 11:24 CST		0 0.91] 0 0 eports of damage. 0 0	Source: Public Tornado (EF0, L: 0.04 mi , W: 20 yd) Source: Public Hail (0.88 in) Source: Public
There were no reports of damage associ WELLS COUNTY 2.3 NNE HARVEY A This tornado touched down in the open of WELLS COUNTY 3.7 NNW HEIMDAL	07/17/11 10:06 CST 07/17/11 10:11 CST iated with the large hail. ARPT [47.83, -99.91], 2.3 NNE HARVE 07/17/11 10:48 CST 07/17/11 10:49 CST country. There were no impacts to stru . [47.85, -99.65] 07/17/11 11:18 CST 07/17/11 11:24 CST 7.80, -99.66] 07/17/11 11:22 CST		0 0.91] 0 0 eports of damage.	Source: Public Tornado (EF0, L: 0.04 mi , W: 20 yd) Source: Public Hail (0.88 in) Source: Public
There were no reports of damage associ WELLS COUNTY 2.3 NNE HARVEY A This tornado touched down in the open of WELLS COUNTY 3.7 NNW HEIMDAL	07/17/11 10:06 CST 07/17/11 10:11 CST iated with the large hail. ARPT [47.83, -99.91], 2.3 NNE HARVE 07/17/11 10:48 CST 07/17/11 10:49 CST country. There were no impacts to stru . [47.85, -99.65] 07/17/11 11:18 CST 07/17/11 11:24 CST		0 0.91] 0 0 eports of damage. 0 0	Source: Public Tornado (EF0, L: 0.04 mi , W: 20 yd) Source: Public Hail (0.88 in) Source: Public
There were no reports of damage associ WELLS COUNTY 2.3 NNE HARVEY A This tornado touched down in the open of WELLS COUNTY 3.7 NNW HEIMDAL	07/17/11 10:06 CST 07/17/11 10:11 CST iated with the large hail. ARPT [47.83, -99.91], 2.3 NNE HARVE 07/17/11 10:48 CST 07/17/11 10:49 CST country. There were no impacts to stru [47.85, -99.65] 07/17/11 11:24 CST 7.80, -99.66] 07/17/11 11:22 CST 07/17/11 11:28 CST		0 9.91] 0 0 eports of damage. 0 0	Source: Public Tomado (EF0, L: 0.04 mi , W: 20 yd) Source: Public Hail (0.88 in) Source: Public Hail (1.75 in) Source: Public
There were no reports of damage associant wells county 2.3 NNE HARVEY A This tornado touched down in the open of the county 3.7 NNW HEIMDAL WELLS COUNTY 1.9 W HEIMDAL [47]	07/17/11 10:06 CST 07/17/11 10:11 CST iated with the large hail. ARPT [47.83, -99.91], 2.3 NNE HARVE 07/17/11 10:48 CST 07/17/11 10:49 CST country. There were no impacts to stru . [47.85, -99.65] 07/17/11 11:24 CST 7.80, -99.66] 07/17/11 11:28 CST		0 9.91] 0 0 eports of damage. 0 0 0	Source: Public Tomado (EF0, L: 0.04 mi , W: 20 yd) Source: Public Hail (0.88 in) Source: Public Hail (1.75 in) Source: Public
There were no reports of damage associ WELLS COUNTY 2.3 NNE HARVEY A This tornado touched down in the open of WELLS COUNTY 3.7 NNW HEIMDAL	07/17/11 10:06 CST 07/17/11 10:11 CST iated with the large hail. ARPT [47.83, -99.91], 2.3 NNE HARVE 07/17/11 10:48 CST 07/17/11 10:49 CST country. There were no impacts to stru [47.85, -99.65] 07/17/11 11:24 CST 7.80, -99.66] 07/17/11 11:22 CST 07/17/11 11:28 CST		0 9.91] 0 0 eports of damage. 0 0	Source: Public Tomado (EF0, L: 0.04 mi , W: 20 yd) Source: Public Hail (0.88 in) Source: Public Hail (1.75 in) Source: Public
There were no reports of damage associ WELLS COUNTY 2.3 NNE HARVEY A This tornado touched down in the open of WELLS COUNTY 3.7 NNW HEIMDAL WELLS COUNTY 1.9 W HEIMDAL [47]	07/17/11 10:06 CST 07/17/11 10:11 CST iated with the large hail. ARPT [47.83, -99.91], 2.3 NNE HARVE 07/17/11 10:48 CST 07/17/11 10:49 CST country. There were no impacts to stru [47.85, -99.65] 07/17/11 11:24 CST 07/17/11 11:22 CST 07/17/11 11:28 CST - [47.79, -99.65] 07/17/11 11:28 CST 07/17/11 11:34 CST		0 0.91] 0 0 eports of damage. 0 0 0	Source: Public Tornado (EF0, L: 0.04 mi , W: 20 yd) Source: Public Hail (0.88 in) Source: Public Hail (1.75 in) Source: Public
There were no reports of damage associ WELLS COUNTY 2.3 NNE HARVEY A This tornado touched down in the open of WELLS COUNTY 3.7 NNW HEIMDAL WELLS COUNTY 1.9 W HEIMDAL [47]	07/17/11 10:06 CST 07/17/11 10:11 CST iated with the large hail. ARPT [47.83, -99.91], 2.3 NNE HARVE 07/17/11 10:48 CST 07/17/11 10:49 CST country. There were no impacts to stru [47.85, -99.65] 07/17/11 11:24 CST 7.80, -99.66] 07/17/11 11:22 CST 07/17/11 11:28 CST - [47.79, -99.65] 07/17/11 11:28 CST 07/17/11 11:34 CST		0 9.91] 0 0 eports of damage. 0 0 0	Source: Public Tornado (EF0, L: 0.04 mi , W: 20 yd) Source: Public Hail (0.88 in) Source: Public Hail (1.75 in) Source: Public Hail (1.75 in) Source: Trained Spotter
There were no reports of damage associ WELLS COUNTY 2.3 NNE HARVEY A This tornado touched down in the open of WELLS COUNTY 3.7 NNW HEIMDAL WELLS COUNTY 1.9 W HEIMDAL [47]	07/17/11 10:06 CST 07/17/11 10:11 CST iated with the large hail. ARPT [47.83, -99.91], 2.3 NNE HARVE 07/17/11 10:48 CST 07/17/11 10:49 CST country. There were no impacts to stru [47.85, -99.65] 07/17/11 11:24 CST 07/17/11 11:22 CST 07/17/11 11:28 CST - [47.79, -99.65] 07/17/11 11:28 CST 07/17/11 11:34 CST		0 0.91] 0 0 eports of damage. 0 0 0	Source: Public Tornado (EF0, L: 0.04 mi , W: 20 yd) Source: Public Hail (0.88 in) Source: Public Hail (1.75 in) Source: Public
There were no reports of damage associ WELLS COUNTY 2.3 NNE HARVEY A This tornado touched down in the open of WELLS COUNTY 3.7 NNW HEIMDAL WELLS COUNTY 1.9 W HEIMDAL [47] WELLS COUNTY 1.6 WSW HEIMDAL	07/17/11 10:06 CST 07/17/11 10:11 CST iated with the large hail. ARPT [47.83, -99.91], 2.3 NNE HARVE 07/17/11 10:48 CST 07/17/11 10:49 CST country. There were no impacts to stru [47.85, -99.65] 07/17/11 11:24 CST 7.80, -99.66] 07/17/11 11:28 CST 07/17/11 11:28 CST 07/17/11 11:34 CST 7.75, -99.39] 07/17/11 11:45 CST 07/17/11 11:54 CST	ctures and so no re	0 0.91] 0 0 eports of damage. 0 0 0 0 0	Source: Public Tomado (EF0, L: 0.04 mi , W: 20 yd) Source: Public Hail (0.88 in) Source: Public Hail (1.75 in) Source: Prained Spotter Hail (1.75 in) Source: Trained Spotter
There were no reports of damage associ WELLS COUNTY 2.3 NNE HARVEY A This tornado touched down in the open of WELLS COUNTY 3.7 NNW HEIMDAL WELLS COUNTY 1.9 W HEIMDAL [47]	07/17/11 10:06 CST 07/17/11 10:11 CST iated with the large hail. ARPT [47.83, -99.91], 2.3 NNE HARVE 07/17/11 10:48 CST 07/17/11 10:49 CST country. There were no impacts to stru . [47.85, -99.65] 07/17/11 11:24 CST 7.80, -99.66] 07/17/11 11:28 CST 07/17/11 11:28 CST 07/17/11 11:34 CST 7.75, -99.39] 07/17/11 11:45 CST 07/17/11 11:54 CST	ctures and so no re	0 0.91] 0 0 eports of damage. 0 0 0 0 0	Source: Public Tornado (EF0, L: 0.04 mi , W: 20 yd) Source: Public Hail (0.88 in) Source: Public Hail (1.75 in) Source: Public Hail (1.75 in) Source: Trained Spotter

FOSTER COUNTY --- 6.4 SSE GLENFIELD [47.36, -98.54], 6.4 SSE GLENFIELD [47.36, -98.54]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/17/11 13:28 CST		0	Tornado (EF0, L: 0.02 mi , W: 20 yd)
	07/17/11 13:29 CST		0	Source: Public
his tornado touched down in the open count	ry. There were no impacts to struc	ctures and so no r	eports of damage	e.
(IDDER COUNTY 4.9 N CRYSTAL SPGS				
	07/17/11 14:50 CST		0	Funnel Cloud
	07/17/11 14:50 CST		0	Source: Public
STUTSMAN COUNTY 4.7 NW MEDINA [46	5.92, -99.38]			
	07/17/11 15:07 CST		0	Thunderstorm Wind (EG 52 kt)
	07/17/11 15:14 CST		0	Source: Trained Spotter
Rotation was observed with this storm.				
STUTSMAN COUNTY 0.5 W MILLARTON	[46.67, -98.76]			
	07/17/11 15:22 CST		0	Hail (2.00 in)
	07/17/11 15:28 CST		0	Source: Public
There were no reports of damage associated	with the large hail.			
STUTSMAN COUNTY 0.5 W WINDSOR [4	6.90, -99.04]			
•	07/17/11 15:34 CST		0	Thunderstorm Wind (EG 52 kt)
	07/17/11 15:41 CST		0	Source: Law Enforcement
Very heavy rain and pea size hail accompanion	ed the strong thunderstorm winds.			
STUTSMAN COUNTY 5.6 NW SYDNEY [4	6 70 .08 851			
STOTSWAN COUNTY 5.0 NW STENET [4:	07/17/11 16:10 CST		0	Hail (1.75 in)
	07/17/11 16:15 CST		0	Source: Law Enforcement
STUTSMAN COUNTY 0.5 W MILLARTON				
	07/17/11 16:22 CST		0	Hail (2.00 in)
	07/17/11 16:28 CST		0	Source: Public
There were no reports of damage associated	with the large hail.			
_A MOURE COUNTY 6.3 SE NORTONVIL	= = =	IN [46.30, -98.43]		
	07/17/11 16:57 CST		0.50M	Tornado (EF3, L: 16.18 mi , W: 880 yd)
	07/17/11 17:37 CST	1	0.25M	Source: NWS Storm Survey
A National Weather Service storm survey con- before lifting six miles south southeast of Berl was observed all along the tornado path, with damaged beyond repair. There were no death vehicle tossed up to one half mile away from a and soft wood trees both snapped and uproof animals were killed. The tornado damage con- order of 165 miles per hour.	in. This was a long tracked tornad no fewer than five farmsteads im ns. The worst damage consisted o its original location and almost un red. The violent nature of tornado	lo across parts of pacted, some ver of a farm house co recognizable as a es was evidenced	Russell, Wano, F y severely. One in empletely destroyed motor vehicle, ar by the twisted an	Henrietta, and Badger townships. Damage njury occurred where a farm home was red, outbuildings completely destroyed, a nd a significant number of very large hard and mangled trees. In one case farm
LA MOURE COUNTY 7.1 NW BERLIN [46.	45, -98.59], 2.8 S BERLIN [46.34, 07/17/11 17:05 CST	-98.47]	20K	Hail (2.75 in)
	07/17/11 17:35 CST		20K	Source: Law Enforcement
Hail as large as hockey pucks fell along the p entry for LaMoure County.	ath of the supercell thunderstorm	and EF3 tornado	that moved throu	igh LaMoure County. See the EF3 tornado
LA MOURE COUNTY 3.5 S GRAND RAPII	DS [46.40, -98.37]			
	07/17/11 17:18 CST		0	Hail (2.00 in)
	07/17/11 17:24 CST		0	Source: Storm Chaser

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Source: Storm Chaser

07/17/11 17:24 CST

There were no reports of damage associated with the large hail.

	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A MOURE COUNTY 0.8 NE LA MOURE [46.36	•		FIV.	Data
	07/17/11 17:29 CST 07/17/11 17:29 CST		5K 0	Lightning Source: Emergency Manager
lightning strike caused damage to a building in La			ŭ	course. Emergency manager
A MOURE COUNTY 0.8 NE LA MOURE [46.36	6, -98.29] 07/17/11 17:29 CST		0	Hail (1.00 in)
	07/17/11 17:34 CST		0	Source: Emergency Manager
ICKEY COUNTY 4.9 N FULLERTON [46.24, -9	=			
	07/17/11 17:42 CST		0	Funnel Cloud
	07/17/11 17:42 CST		0	Source: Storm Chaser
CKEY COUNTY 3.4 WNW OAKES [46.14, -98				
	07/17/11 17:45 CST		0	Funnel Cloud
	07/17/11 17:45 CST		0	Source: Law Enforcement
ICKEY COUNTY 2.8 N FULLERTON [46.21, -9	8.43], 2.8 N FULLERTON [4	6.21, -98.43]		
• ,	07/17/11 18:06 CST	• •	0	Tornado (EF0, L: 0.05 mi , W: 25 yd)
	07/17/11 18:07 CST		0	Source: Emergency Manager
-	I, -98.76] 07/17/11 18:18 CST		15K	Thunderstorm Wind (EG 61 kt)
Evergreen trees were snapped in the city of Merrico	07/17/11 18:18 CST 07/17/11 18:24 CST ourt.	unetable atmosphe	15K 0	Thunderstorm Wind (EG 61 kt) Source: Broadcast Media
Evergreen trees were snapped in the city of Merrica A prolonged severe weather event materialized Jaynamics. The first wave of storms occurred from mpulse crested the central plains upper ridge activeral severe thunderstorm and tornado warning eceived. In addition, 3 confirmed tornadoes occurred from the mid afternoof thunderstorm. Severe weather reports included wornado in Lamoure County.	07/17/11 18:18 CST 07/17/11 18:24 CST ourt. Ouly 17th with an extremely me the mid morning through through through the mid morning through the mid with this first wave. On through the mid evening very large hail, strong winds 12] 07/18/11 17:57 MST	the early afternoo intensified ahead rge hail and seven hours. This main	nere present and on hours as a shot of this feature, pre thunderstorm by consisted of oned tornadoes. The state of the sta	Source: Broadcast Media supportive mid level ort wave mid level prompting the issuance of wind gusts were ne supercell his included an EF3 Hail (1.75 in)
prolonged severe weather event materialized J ynamics. The first wave of storms occurred from pulse crested the central plains upper ridge active everal severe thunderstorm and tornado warning eceived. In addition, 3 confirmed tornadoes occurred from the mid afternoon and executed wave occurred from the mid afternoon understorm. Severe weather reports included wornado in Lamoure County.	07/17/11 18:18 CST 07/17/11 18:24 CST ourt. ourt. outy 17th with an extremely method morning through through through through through through through through the mid evening	the early afternoo intensified ahead rge hail and seven hours. This main	nere present and on hours as a shot of this feature, pre thunderstorm by consisted of oned tornadoes. The	Source: Broadcast Media supportive mid level ort wave mid level prompting the issuance of wind gusts were ne supercell his included an EF3
prolonged severe weather event materialized J ynamics. The first wave of storms occurred from pulse crested the central plains upper ridge active everal severe thunderstorm and tornado warning eceived. In addition, 3 confirmed tornadoes occurred from the mid afternoon nunderstorm. Severe weather reports included to ornado in Lamoure County. IDAMS COUNTY 16.8 E HAYNES [45.97, -102.	07/17/11 18:18 CST 07/17/11 18:24 CST ourt. Ouly 17th with an extremely me the mid morning through through through the mid morning through the mid with this first wave. On through the mid evening very large hail, strong winds 12] 07/18/11 17:57 MST	the early afternoo intensified ahead rge hail and seven hours. This main	nere present and on hours as a shot of this feature, pre thunderstorm by consisted of oned tornadoes. The state of the sta	Source: Broadcast Media supportive mid level ort wave mid level prompting the issuance of wind gusts were ne supercell his included an EF3 Hail (1.75 in)
prolonged severe weather event materialized J ynamics. The first wave of storms occurred from pulse crested the central plains upper ridge active everal severe thunderstorm and tornado warning eceived. In addition, 3 confirmed tornadoes occurred. In addition, 3 confirmed tornadoes occurred from the mid afternorm and esteroid wave occurred from	07/17/11 18:18 CST 07/17/11 18:24 CST ourt. Ouly 17th with an extremely in the mid morning through cross North Dakota. Storms igs. Numerous reports of laurred with this first wave. On through the mid evening very large hail, strong winds 12] 07/18/11 17:57 MST 07/18/11 18:00 MST	the early afternoo intensified ahead rge hail and seven hours. This main	nere present and on hours as a shot of this feature, pre thunderstorm by consisted of oned tornadoes. The state of the sta	Source: Broadcast Media supportive mid level ort wave mid level prompting the issuance of wind gusts were ne supercell his included an EF3 Hail (1.75 in) Source: COOP Observer
prolonged severe weather event materialized J ynamics. The first wave of storms occurred from pulse crested the central plains upper ridge active and several severe thunderstorm and tornado warning actived. In addition, 3 confirmed tornadoes occurred from the mid afternoon nunderstorm. Severe weather reports included wornado in Lamoure County. DAMS COUNTY 16.8 E HAYNES [45.97, -102.] There was damage to crops and vehicles.	07/17/11 18:18 CST 07/17/11 18:24 CST ourt. Outly 17th with an extremely in the mid morning through cross North Dakota. Storms ags. Numerous reports of laurred with this first wave. On through the mid evening very large hail, strong winds 12] 07/18/11 17:57 MST 07/18/11 18:00 MST	the early afternoo intensified ahead rge hail and seven hours. This main	nere present and on hours as a shot of this feature, pre thunderstorm ally consisted of oned tornadoes. The shock of the s	Source: Broadcast Media supportive mid level ort wave mid level orompting the issuance of wind gusts were ne supercell his included an EF3 Hail (1.75 in) Source: COOP Observer
A prolonged severe weather event materialized J lynamics. The first wave of storms occurred from mpulse crested the central plains upper ridge activeral severe thunderstorm and tornado warning eceived. In addition, 3 confirmed tornadoes occurred from the mid afternoof hunderstorm. Severe weather reports included wornado in Lamoure County. ADAMS COUNTY 16.8 E HAYNES [45.97, -102.] There was damage to crops and vehicles.	07/17/11 18:18 CST 07/17/11 18:24 CST ourt. July 17th with an extremely the mid morning through through the mid morning through the mid with this first wave. July 17th with an extremely the mid extremely through the mid evening through through the mid evening through	the early afternoo intensified ahead rge hail and seven hours. This main	nere present and on hours as a shot of this feature, pre thunderstorm by consisted of oned tornadoes. The shock of the sho	Source: Broadcast Media supportive mid level ort wave mid level prompting the issuance of wind gusts were ne supercell his included an EF3 Hail (1.75 in) Source: COOP Observer
A prolonged severe weather event materialized J lynamics. The first wave of storms occurred from mpulse crested the central plains upper ridge active and several severe thunderstorm and tornado warning eceived. In addition, 3 confirmed tornadoes occurred from the mid afternoof hunderstorm. Severe weather reports included wornado in Lamoure County. ADAMS COUNTY 16.8 E HAYNES [45.97, -102.] There was damage to crops and vehicles. SIOUX COUNTY 49.9 W SELFRIDGE [46.04, -10] An isolated supercell thunderstorm tracked along lorth Dakota during the early evening of July 18 mid level impulse near southeast Montana. Seve	07/17/11 18:18 CST 07/17/11 18:24 CST ourt. Outt.	the early afternoon intensified ahead rge hail and seven hours. This main s, and two confirms the background the bakota border and a surface warm of a surfa	nere present and on hours as a shot of this feature, pre thunderstorm by consisted of oned tornadoes. The shock of the sho	Source: Broadcast Media supportive mid level ort wave mid level orompting the issuance of wind gusts were ne supercell his included an EF3 Hail (1.75 in) Source: COOP Observer Hail (1.00 in) Source: Trained Spotter est and far south central th Dakota and ahead of a
A prolonged severe weather event materialized J lynamics. The first wave of storms occurred from pulse crested the central plains upper ridge active everal severe thunderstorm and tornado warning eceived. In addition, 3 confirmed tornadoes occurred from the mid afternoof hunderstorm. Severe weather reports included wornado in Lamoure County. ADAMS COUNTY 16.8 E HAYNES [45.97, -102.] There was damage to crops and vehicles. SHOUX COUNTY 49.9 W SELFRIDGE [46.04, -10] An isolated supercell thunderstorm tracked along lorth Dakota during the early evening of July 18 and level impulse near southeast Montana. Severe ports of large hail were received.	07/17/11 18:18 CST 07/17/11 18:24 CST ourt. Outt.	the early afternoon intensified ahead rge hail and seven hours. This main s, and two confirms the background the bakota border and a surface warm of a surfa	nere present and on hours as a shot of this feature, pre thunderstorm by consisted of oned tornadoes. The shock of the sho	Source: Broadcast Media supportive mid level ort wave mid level orompting the issuance of wind gusts were ne supercell his included an EF3 Hail (1.75 in) Source: COOP Observer Hail (1.00 in) Source: Trained Spotter est and far south central th Dakota and ahead of a
A prolonged severe weather event materialized J lynamics. The first wave of storms occurred from mpulse crested the central plains upper ridge active everal severe thunderstorm and tornado warning eceived. In addition, 3 confirmed tornadoes occurred from the mid afternoon hunderstorm. Severe weather reports included wornado in Lamoure County.	07/17/11 18:18 CST 07/17/11 18:24 CST ourt. Outt.	the early afternoon intensified ahead rge hail and seven hours. This main s, and two confirms the background the bakota border and a surface warm of a surfa	nere present and on hours as a shot of this feature, pre thunderstorm by consisted of oned tornadoes. The shock of the sho	Source: Broadcast Media supportive mid level ort wave mid level orompting the issuance of wind gusts were ne supercell his included an EF3 Hail (1.75 in) Source: COOP Observer Hail (1.00 in) Source: Trained Spotter est and far south central th Dakota and ahead of a

A cluster of diurnal thunderstorms moving into southwest North Dakota prompted the issuance of several severe thunderstorm

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
varnings. One report of large hail was received.				
MCLEAN COUNTY 7.8 ENE ROSEGLEN [47.80,				
	07/20/11 04:05 CST		0	Thunderstorm Wind (MG 52 kt)
	07/20/11 04:11 CST		0	Source: Mesonet
CLEAN COUNTY MAX [47.82, -101.30]				
	07/20/11 04:17 CST		0	Hail (1.00 in)
	07/20/11 04:20 CST		0	Source: Public
CLEAN COUNTY MAX [47.82, -101.30]				
	07/20/11 04:17 CST		0.10M	Thunderstorm Wind (EG 55 kt)
	07/20/11 04:28 CST		0	Source: Public
arge hail accompanied the strong winds with dama	age to roofs and windows. Tre	es in Max were	damaged.	
ERCE COUNTY 5.0 NW BALTA [48.22, -100.1	1]			
	07/20/11 05:45 CST		30K	Thunderstorm Wind (EG 61 kt)
	07/20/11 05:53 CST		0	Source: Public
he strong thunderstorm winds blew down box elde	er trees and bent a flagpole.			
IERCE COUNTY 0.9 W RUGBY [48.37, -100.00]			
	07/20/11 05:50 CST		35K	Thunderstorm Wind (MG 59 kt)
	07/20/11 06:03 CST		0	Source: AWOS
ree branches were blown down throughout the city	y of Rugby.			
PIERCE COUNTY 3.0 E RUGBY [48.37, -99.91],	8.0 SSW RUGBY [48.26, -100	0.05]		
	07/20/11 05:50 CST		75K	Thunderstorm Wind (EG 70 kt)
	07/20/11 06:10 CST		0	Source: Trained Spotter
Several reports of high wind and damage were rece vere broken, and a large shop was damaged arour Pierce County.		-	-	•
PIERCE COUNTY 4.9 S RUGBY [48.30, -100.00]	· - ·]		
	07/20/11 05:50 CST		0.33M	Tornado (EF1, L: 1.25 mi , W: 50 yd)
	07/20/11 05:55 CST		0.15M	Source: Law Enforcement
A brief tornado touched down five miles south of Rustraight line thunderstorm winds which also caused hree power poles were snapped along North Dako he ditch. There were no injuries or deaths reported was determined that wind speeds with this tornado	damage. Several buildings su ta Highway 3 where the tornad with this tornado. The tornad	ustained damage do crossed. A se o damage corres	or were destroye mi truck was pick	ed by this tornado, along with trees, and ed up along Highway 3 and thrown into
Early morning thunderstorms developed and inte strengthening low level jet and in advance of a st hunderstorm wind gusts. A bowing structure de Additional reports of strong winds followed the to Area.	rong surface cold front. Stor veloped with one confirmed t	ms initially were tornado on the l	e elevated with se eading edge of th	everal reports of strong he storm near Rugby.
MORTON COUNTY ALMONT [46.73, -101.50]	0=100114 1= 00=			W 7/4 00 :
	07/22/11 17:37 CST		0	Hail (1.00 in)
	07/22/11 17:45 CST		0	Source: Trained Spotter
GOLDEN VALLEY COUNTY BEACH [46.92, -10	4.00]			
	07/22/11 17:40 MST		0	Thunderstorm Wind (MG 57 kt)
	07/00/44 47 40 1407		^	0

MORTON COUNTY --- 7.7 SSW ALMONT [46.63, -101.57], 7.5 SSW ALMONT [46.63, -101.57]

07/22/11 17:46 MST

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Source: COOP Observer

0

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/22/11 17:40 CST		0	Tornado (EF0, L: 0.17 mi , W: 20 yd)
	07/22/11 17:41 CST		0	Source: Public
his tornado touched down in the ope	en country. There were no reports of dama	age associated wit	h this tornado.	
MCKENZIE COUNTY 0.7 S GRASS	SY BUTTE [47.39, -103.25] 07/22/11 18:00 MST		0	Heavy Pain
	07/22/11 18:30 MST		0	Heavy Rain Source: COOP Observer
			· ·	Course. Cool Charles
A heavy rainfall report of 1.13 inches i	in one half hour was received.			
MCKENZIE COUNTY 13.8 N GRAS	SSY BUTTE [47.60, -103.26]			
	07/22/11 18:00 MST		0	Heavy Rain
	07/22/11 18:30 MST		0	Source: Trained Spotter
A heavy rainfall report of 1.3 inches in	one half hour was received.			
ICKENZIE COUNTY 13.1 N GRAS	SSY BUTTE [47.59, -103.26], 13.1 N GRA	SSY BUTTE [47.5		
	07/22/11 18:23 MST		0.10M	Tornado (EF0, L: 0.45 mi , W: 30 yd)
	07/22/11 18:24 MST		0	Source: Law Enforcement
LOPE COUNTY 3.3 W AMIDON [-	46.48, -103.39]			
•	07/22/44 40:20 MCT		EV	Thundaratorm Wind (FC E2 let)
	07/22/11 18:30 MST 07/22/11 18:35 MST from the strong winds.		5K 0	Thunderstorm Wind (EG 52 kt) Source: Public
Several tree branches were blown off	07/22/11 18:35 MST from the strong winds. ASSY BUTTE [47.41, -103.22] 07/22/11 18:31 MST		0	Source: Public Thunderstorm Wind (EG 52 kt)
Several tree branches were blown off	07/22/11 18:35 MST from the strong winds. ASSY BUTTE [47.41, -103.22]		0	Source: Public
Several tree branches were blown off	07/22/11 18:35 MST from the strong winds. ASSY BUTTE [47.41, -103.22] 07/22/11 18:31 MST 07/22/11 18:36 MST		0	Source: Public Thunderstorm Wind (EG 52 kt)
Several tree branches were blown off MCKENZIE COUNTY 1.6 ENE GRA A report of 60 mile per hour winds wa	07/22/11 18:35 MST from the strong winds. ASSY BUTTE [47.41, -103.22] 07/22/11 18:31 MST 07/22/11 18:36 MST	[46.87, -103.20]	0	Source: Public Thunderstorm Wind (EG 52 kt)
Several tree branches were blown off MCKENZIE COUNTY 1.6 ENE GRA A report of 60 mile per hour winds wa	07/22/11 18:35 MST from the strong winds. ASSY BUTTE [47.41, -103.22] 07/22/11 18:31 MST 07/22/11 18:36 MST s received.	[46.87, -103.20]	0	Source: Public Thunderstorm Wind (EG 52 kt)
Several tree branches were blown off MCKENZIE COUNTY 1.6 ENE GRA A report of 60 mile per hour winds wa	07/22/11 18:35 MST from the strong winds. ASSY BUTTE [47.41, -103.22] 07/22/11 18:31 MST 07/22/11 18:36 MST s received. ELD [46.87, -103.20], 0.5 SSW BELFIELD	[46.87, -103.20]	0 0 0	Source: Public Thunderstorm Wind (EG 52 kt) Source: COOP Observer
Several tree branches were blown off MCKENZIE COUNTY 1.6 ENE GRA A report of 60 mile per hour winds was STARK COUNTY 0.5 SSW BELFIE	07/22/11 18:35 MST from the strong winds. ASSY BUTTE [47.41, -103.22] 07/22/11 18:31 MST 07/22/11 18:36 MST s received. ELD [46.87, -103.20], 0.5 SSW BELFIELD 07/22/11 18:35 MST		0 0 0	Thunderstorm Wind (EG 52 kt) Source: COOP Observer Tornado (EF0, L: 0.09 mi , W: 30 yd) Source: Trained Spotter
Several tree branches were blown off MCKENZIE COUNTY 1.6 ENE GRA A report of 60 mile per hour winds was STARK COUNTY 0.5 SSW BELFIE	07/22/11 18:35 MST from the strong winds. ASSY BUTTE [47.41, -103.22] 07/22/11 18:31 MST 07/22/11 18:36 MST s received. ELD [46.87, -103.20], 0.5 SSW BELFIELD 07/22/11 18:35 MST 07/22/11 18:36 MST e south of Belfield. There were no reports		0 0 0 0 ated with this short	Thunderstorm Wind (EG 52 kt) Source: COOP Observer Tornado (EF0, L: 0.09 mi , W: 30 yd) Source: Trained Spotter
Several tree branches were blown off MCKENZIE COUNTY 1.6 ENE GRA A report of 60 mile per hour winds was STARK COUNTY 0.5 SSW BELFIE	07/22/11 18:35 MST from the strong winds. ASSY BUTTE [47.41, -103.22]		0 0 0 0 ated with this short	Thunderstorm Wind (EG 52 kt) Source: COOP Observer Tornado (EF0, L: 0.09 mi , W: 30 yd) Source: Trained Spotter t lived tornado. Thunderstorm Wind (MG 51 kt)
Several tree branches were blown off MCKENZIE COUNTY 1.6 ENE GRA A report of 60 mile per hour winds was STARK COUNTY 0.5 SSW BELFIE	07/22/11 18:35 MST from the strong winds. ASSY BUTTE [47.41, -103.22] 07/22/11 18:31 MST 07/22/11 18:36 MST s received. ELD [46.87, -103.20], 0.5 SSW BELFIELD 07/22/11 18:35 MST 07/22/11 18:36 MST e south of Belfield. There were no reports		0 0 0 0 ated with this short	Thunderstorm Wind (EG 52 kt) Source: COOP Observer Tornado (EF0, L: 0.09 mi , W: 30 yd) Source: Trained Spotter
Geveral tree branches were blown off MCKENZIE COUNTY 1.6 ENE GRA A report of 60 mile per hour winds was STARK COUNTY 0.5 SSW BELFIE This tornado touched down just to the	07/22/11 18:35 MST from the strong winds. ASSY BUTTE [47.41, -103.22]		0 0 0 0 ated with this short	Thunderstorm Wind (EG 52 kt) Source: COOP Observer Tornado (EF0, L: 0.09 mi , W: 30 yd) Source: Trained Spotter t lived tornado. Thunderstorm Wind (MG 51 kt)
Geveral tree branches were blown off MCKENZIE COUNTY 1.6 ENE GRA A report of 60 mile per hour winds was STARK COUNTY 0.5 SSW BELFIE This tornado touched down just to the	07/22/11 18:35 MST from the strong winds. ASSY BUTTE [47.41, -103.22]		0 0 0 0 ated with this short	Thunderstorm Wind (EG 52 kt) Source: COOP Observer Tornado (EF0, L: 0.09 mi , W: 30 yd) Source: Trained Spotter t lived tornado. Thunderstorm Wind (MG 51 kt)
Several tree branches were blown off MCKENZIE COUNTY 1.6 ENE GRA A report of 60 mile per hour winds was STARK COUNTY 0.5 SSW BELFIE	07/22/11 18:35 MST from the strong winds. ASSY BUTTE [47.41, -103.22]		0 0 0 0 ated with this short	Thunderstorm Wind (EG 52 kt) Source: COOP Observer Tornado (EF0, L: 0.09 mi , W: 30 yd) Source: Trained Spotter t lived tornado. Thunderstorm Wind (MG 51 kt) Source: COOP Observer
Several tree branches were blown off MCKENZIE COUNTY 1.6 ENE GRA A report of 60 mile per hour winds was STARK COUNTY 0.5 SSW BELFIE This tornado touched down just to the	07/22/11 18:35 MST from the strong winds. ASSY BUTTE [47.41, -103.22] 07/22/11 18:31 MST 07/22/11 18:36 MST s received. ELD [46.87, -103.20], 0.5 SSW BELFIELD 07/22/11 18:35 MST 07/22/11 18:36 MST e south of Belfield. There were no reports [47.37, -102.75] 07/22/11 18:39 MST 07/22/11 18:45 MST		0 0 0 0 ated with this short	Thunderstorm Wind (EG 52 kt) Source: COOP Observer Tornado (EF0, L: 0.09 mi , W: 30 yd) Source: Trained Spotter t lived tornado. Thunderstorm Wind (MG 51 kt) Source: COOP Observer Heavy Rain
Several tree branches were blown off MCKENZIE COUNTY 1.6 ENE GRA A report of 60 mile per hour winds was STARK COUNTY 0.5 SSW BELFIE This tornado touched down just to the DUNN COUNTY 0.9 E KILLDEER [DUNN COUNTY 6.2 N WERNER [4]	07/22/11 18:35 MST from the strong winds. ASSY BUTTE [47.41, -103.22] 07/22/11 18:31 MST 07/22/11 18:36 MST s received. ELD [46.87, -103.20], 0.5 SSW BELFIELD 07/22/11 18:35 MST 07/22/11 18:36 MST e south of Belfield. There were no reports [47.37, -102.75] 07/22/11 18:39 MST 07/22/11 18:45 MST	of damage associa	0 0 0 ated with this short 0 0 0	Thunderstorm Wind (EG 52 kt) Source: COOP Observer Tornado (EF0, L: 0.09 mi , W: 30 yd) Source: Trained Spotter t lived tornado. Thunderstorm Wind (MG 51 kt) Source: COOP Observer Heavy Rain Source: Mesonet
Several tree branches were blown off MCKENZIE COUNTY 1.6 ENE GRA A report of 60 mile per hour winds was STARK COUNTY 0.5 SSW BELFIE This tornado touched down just to the DUNN COUNTY 0.9 E KILLDEER [DUNN COUNTY 6.2 N WERNER [4]	07/22/11 18:35 MST from the strong winds. ASSY BUTTE [47.41, -103.22] 07/22/11 18:31 MST 07/22/11 18:36 MST s received. ELD [46.87, -103.20], 0.5 SSW BELFIELD 07/22/11 18:35 MST 07/22/11 18:36 MST e south of Belfield. There were no reports [47.37, -102.75] 07/22/11 18:39 MST 07/22/11 18:45 MST 47.46, -102.47] 07/22/11 18:53 MST 07/22/11 19:53 MST in one hour was received.	of damage associa	0 0 0 0 ated with this short 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Thunderstorm Wind (EG 52 kt) Source: COOP Observer Tornado (EF0, L: 0.09 mi , W: 30 yd) Source: Trained Spotter t lived tornado. Thunderstorm Wind (MG 51 kt) Source: COOP Observer Heavy Rain Source: Mesonet
Several tree branches were blown off MCKENZIE COUNTY 1.6 ENE GRA A report of 60 mile per hour winds was STARK COUNTY 0.5 SSW BELFIE This tornado touched down just to the DUNN COUNTY 0.9 E KILLDEER [DUNN COUNTY 0.9 E KILLDEER [A heavy rainfall report of 2.45 inches in BILLINGS COUNTY 0.8 SE MEDO	07/22/11 18:35 MST from the strong winds. ASSY BUTTE [47.41, -103.22] 07/22/11 18:31 MST 07/22/11 18:36 MST s received. ELD [46.87, -103.20], 0.5 SSW BELFIELD 07/22/11 18:35 MST 07/22/11 18:36 MST e south of Belfield. There were no reports [47.37, -102.75] 07/22/11 18:39 MST 07/22/11 18:45 MST 47.46, -102.47] 07/22/11 18:53 MST 07/22/11 19:53 MST in one hour was received.	of damage associa	0 0 0 ated with this short 0 0 0	Thunderstorm Wind (EG 52 kt) Source: COOP Observer Tornado (EF0, L: 0.09 mi , W: 30 yd) Source: Trained Spotter t lived tornado. Thunderstorm Wind (MG 51 kt) Source: COOP Observer Heavy Rain Source: Mesonet

BOWMAN COUNTY --- 17.1 SW RHAME [46.06, -103.91]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/22/11 19:05 MST	,	0 0	Thunderstorm Wind (EG 52 kt)
	07/22/11 19:10 MST		0	Source: Trained Spotter
Strong thunderstorm winds occurred over sout	hwest Bowman County.			
STARK COUNTY 12.5 SSW SOUTH HEAR	-	UTH HEART [46.6	· ·	T - 1 (FF2 1 4 F2 : 1W 02 I)
	07/22/11 19:05 MST		0	Tornado (EF0, L: 1.53 mi , W: 30 yd)
	07/22/11 19:10 MST		0	Source: Fire Department/Rescue
This tornado touched down in the open country	y. There were no reports of dame	age associated wit	h this tornado.	
BOWMAN COUNTY RHAME [46.23, -103.6	=			
	07/22/11 19:12 MST		0	Hail (0.75 in)
	07/22/11 19:12 MST		0	Source: Mesonet
DUNN COUNTY 2.8 S MARSHALL [47.09, -	.102.33]			
•	07/22/11 19:14 MST		0	Hail (0.75 in)
	07/22/11 19:17 MST		0	Source: Mesonet
DUNN COUNTY 19.5 N WERNER [47.65, -1	02.521. 19.4 N KILLDEER [47 65	i, -102,751. 2.3 NN	E KILLDEER 147 4	0102.751, 3.1 NW WERNER (47.40.
102.52]		, , , , , , , , , , , , , , , , , , , ,	_	
	07/22/11 19:15 MST		10K	Flash Flood (due to Heavy Rain)
	07/22/11 23:00 MST		0	Source: Trained Spotter
eceived. Damage was not significant.				
	07/22/11 19:28 MST		0	Funnel Cloud
			0	Funnel Cloud Source: County Official
SLOPE COUNTY 15.8 E MARMARTH [46.3	07/22/11 19:28 MST 07/22/11 19:28 MST AND [46.54, -102.87]		0	Source: County Official
SLOPE COUNTY 15.8 E MARMARTH [46.3	07/22/11 19:28 MST 07/22/11 19:28 MST AND [46.54, -102.87] 07/22/11 19:56 MST		0 30K	Source: County Official Thunderstorm Wind (EG 56 kt)
SLOPE COUNTY 15.8 E MARMARTH [46.3	07/22/11 19:28 MST 07/22/11 19:28 MST AND [46.54, -102.87]		0	Source: County Official
SLOPE COUNTY 15.8 E MARMARTH [46.3 HETTINGER COUNTY 1.2 NW NEW ENGLA	07/22/11 19:28 MST 07/22/11 19:28 MST AND [46.54, -102.87] 07/22/11 19:56 MST 07/22/11 20:00 MST		0 30K	Source: County Official Thunderstorm Wind (EG 56 kt)
SLOPE COUNTY 15.8 E MARMARTH [46.3 HETTINGER COUNTY 1.2 NW NEW ENGLA	07/22/11 19:28 MST 07/22/11 19:28 MST AND [46.54, -102.87] 07/22/11 19:56 MST 07/22/11 20:00 MST England.		0 30K	Source: County Official Thunderstorm Wind (EG 56 kt) Source: COOP Observer
SLOPE COUNTY 15.8 E MARMARTH [46.3 HETTINGER COUNTY 1.2 NW NEW ENGLA	07/22/11 19:28 MST 07/22/11 19:28 MST AND [46.54, -102.87] 07/22/11 19:56 MST 07/22/11 20:00 MST England.		0 30K	Source: County Official Thunderstorm Wind (EG 56 kt) Source: COOP Observer Hail (1.00 in)
SLOPE COUNTY 15.8 E MARMARTH [46.3 HETTINGER COUNTY 1.2 NW NEW ENGLA The strong winds uprooted some trees in New	07/22/11 19:28 MST 07/22/11 19:28 MST AND [46.54, -102.87] 07/22/11 19:56 MST 07/22/11 20:00 MST England.		0 30K 0	Source: County Official Thunderstorm Wind (EG 56 kt) Source: COOP Observer
SLOPE COUNTY 15.8 E MARMARTH [46.3 HETTINGER COUNTY 1.2 NW NEW ENGLA The strong winds uprooted some trees in New HETTINGER COUNTY 0.5 W REGENT [46.4	07/22/11 19:28 MST 07/22/11 19:28 MST 07/22/11 19:28 MST AND [46.54, -102.87] 07/22/11 19:56 MST 07/22/11 20:00 MST England. 42, -102.56] 07/22/11 20:01 MST 07/22/11 20:06 MST		0 30K 0	Source: County Official Thunderstorm Wind (EG 56 kt) Source: COOP Observer Hail (1.00 in)
SLOPE COUNTY 15.8 E MARMARTH [46.3 HETTINGER COUNTY 1.2 NW NEW ENGLA The strong winds uprooted some trees in New	07/22/11 19:28 MST 07/22/11 19:28 MST 07/22/11 19:28 MST AND [46.54, -102.87] 07/22/11 19:56 MST 07/22/11 20:00 MST England. 42, -102.56] 07/22/11 20:01 MST 07/22/11 20:06 MST		0 30K 0	Source: County Official Thunderstorm Wind (EG 56 kt) Source: COOP Observer Hail (1.00 in)
SLOPE COUNTY 15.8 E MARMARTH [46.3 HETTINGER COUNTY 1.2 NW NEW ENGLA The strong winds uprooted some trees in New HETTINGER COUNTY 0.5 W REGENT [46.4	07/22/11 19:28 MST 07/22/11 19:28 MST 07/22/11 19:28 MST AND [46.54, -102.87] 07/22/11 19:56 MST 07/22/11 20:00 MST England. 42, -102.56] 07/22/11 20:01 MST 07/22/11 20:06 MST		0 30K 0	Source: County Official Thunderstorm Wind (EG 56 kt) Source: COOP Observer Hail (1.00 in) Source: Trained Spotter
SLOPE COUNTY 15.8 E MARMARTH [46.3 HETTINGER COUNTY 1.2 NW NEW ENGLA The strong winds uprooted some trees in New HETTINGER COUNTY 0.5 W REGENT [46.4	07/22/11 19:28 MST 07/22/11 19:28 MST 07/22/11 19:28 MST 07/22/11 19:56 MST 07/22/11 20:00 MST England. 42, -102.56] 07/22/11 20:01 MST 07/22/11 20:06 MST		0 30K 0 0	Source: County Official Thunderstorm Wind (EG 56 kt) Source: COOP Observer Hail (1.00 in) Source: Trained Spotter Heavy Rain
SLOPE COUNTY 15.8 E MARMARTH [46.3 HETTINGER COUNTY 1.2 NW NEW ENGLA The strong winds uprooted some trees in New HETTINGER COUNTY 0.5 W REGENT [46.4 MERCER COUNTY 11.8 N ZAP [47.45, -101] A heavy rainfall report of 1.8 inches in one half	07/22/11 19:28 MST 07/22/11 19:28 MST 07/22/11 19:28 MST AND [46.54, -102.87] 07/22/11 19:56 MST 07/22/11 20:00 MST England. 42, -102.56] 07/22/11 20:01 MST 07/22/11 20:06 MST 1.92] 07/22/11 20:10 CST 07/22/11 20:40 CST i hour was received.		0 30K 0 0	Source: County Official Thunderstorm Wind (EG 56 kt) Source: COOP Observer Hail (1.00 in) Source: Trained Spotter Heavy Rain
SLOPE COUNTY 15.8 E MARMARTH [46.3 HETTINGER COUNTY 1.2 NW NEW ENGLA The strong winds uprooted some trees in New HETTINGER COUNTY 0.5 W REGENT [46.4 MERCER COUNTY 11.8 N ZAP [47.45, -101]	07/22/11 19:28 MST 07/22/11 19:28 MST 07/22/11 19:28 MST AND [46.54, -102.87] 07/22/11 19:56 MST 07/22/11 20:00 MST England. 42, -102.56] 07/22/11 20:01 MST 07/22/11 20:06 MST 1.92] 07/22/11 20:10 CST 07/22/11 20:40 CST i hour was received.		0 30K 0 0	Source: County Official Thunderstorm Wind (EG 56 kt) Source: COOP Observer Hail (1.00 in) Source: Trained Spotter Heavy Rain
SLOPE COUNTY 15.8 E MARMARTH [46.3 HETTINGER COUNTY 1.2 NW NEW ENGLA The strong winds uprooted some trees in New HETTINGER COUNTY 0.5 W REGENT [46.4 MERCER COUNTY 11.8 N ZAP [47.45, -101] A heavy rainfall report of 1.8 inches in one half	07/22/11 19:28 MST 07/22/11 19:28 MST 07/22/11 19:28 MST AND [46.54, -102.87] 07/22/11 19:56 MST 07/22/11 20:00 MST England. 42, -102.56] 07/22/11 20:01 MST 07/22/11 20:06 MST 1.92] 07/22/11 20:10 CST 07/22/11 20:40 CST i hour was received.		0 30K 0 0 0	Source: County Official Thunderstorm Wind (EG 56 kt) Source: COOP Observer Hail (1.00 in) Source: Trained Spotter Heavy Rain Source: Mesonet
SLOPE COUNTY 15.8 E MARMARTH [46.3 HETTINGER COUNTY 1.2 NW NEW ENGLA The strong winds uprooted some trees in New HETTINGER COUNTY 0.5 W REGENT [46.4 MERCER COUNTY 11.8 N ZAP [47.45, -101] A heavy rainfall report of 1.8 inches in one half MERCER COUNTY 0.7 N ZAP [47.29, -101.	07/22/11 19:28 MST 07/22/11 19:28 MST 07/22/11 19:28 MST AND [46.54, -102.87] 07/22/11 19:56 MST 07/22/11 20:00 MST England. 42, -102.56] 07/22/11 20:01 MST 07/22/11 20:06 MST 1.92] 07/22/11 20:10 CST 07/22/11 20:40 CST Fhour was received. 92] 07/22/11 20:30 CST 07/22/11 20:35 CST		0 30K 0 0 0	Source: County Official Thunderstorm Wind (EG 56 kt) Source: COOP Observer Hail (1.00 in) Source: Trained Spotter Heavy Rain Source: Mesonet Hail (1.25 in)
SLOPE COUNTY 15.8 E MARMARTH [46.3 HETTINGER COUNTY 1.2 NW NEW ENGLA The strong winds uprooted some trees in New HETTINGER COUNTY 0.5 W REGENT [46.4 MERCER COUNTY 11.8 N ZAP [47.45, -101] A heavy rainfall report of 1.8 inches in one half MERCER COUNTY 0.7 N ZAP [47.29, -101.	07/22/11 19:28 MST 07/22/11 19:28 MST 07/22/11 19:28 MST AND [46.54, -102.87] 07/22/11 19:56 MST 07/22/11 20:00 MST England. 42, -102.56] 07/22/11 20:01 MST 07/22/11 20:06 MST 1.92] 07/22/11 20:10 CST 07/22/11 20:40 CST Fhour was received. 92] 07/22/11 20:30 CST 07/22/11 20:35 CST		0 30K 0 0 0	Source: County Official Thunderstorm Wind (EG 56 kt) Source: COOP Observer Hail (1.00 in) Source: Trained Spotter Heavy Rain Source: Mesonet Hail (1.25 in)
The strong winds uprooted some trees in New HETTINGER COUNTY 1.2 NW NEW ENGLARMENTH [46.3] MERCER COUNTY 0.5 W REGENT [46.4] A heavy rainfall report of 1.8 inches in one half MERCER COUNTY 0.7 N ZAP [47.29, -101.] MERCER COUNTY 11.8 N ZAP [47.29, -101.]	07/22/11 19:28 MST 07/22/11 19:28 MST 07/22/11 19:28 MST AND [46.54, -102.87] 07/22/11 19:56 MST 07/22/11 20:00 MST England. 42, -102.56] 07/22/11 20:01 MST 07/22/11 20:06 MST 1.92] 07/22/11 20:10 CST 07/22/11 20:40 CST Fhour was received. 92] 07/22/11 20:30 CST 07/22/11 20:35 CST		0 30K 0 0 0 0	Source: County Official Thunderstorm Wind (EG 56 kt) Source: COOP Observer Hail (1.00 in) Source: Trained Spotter Heavy Rain Source: Mesonet Hail (1.25 in) Source: Trained Spotter
SLOPE COUNTY 15.8 E MARMARTH [46.3 HETTINGER COUNTY 1.2 NW NEW ENGLA The strong winds uprooted some trees in New HETTINGER COUNTY 0.5 W REGENT [46.4 MERCER COUNTY 11.8 N ZAP [47.45, -101] A heavy rainfall report of 1.8 inches in one half MERCER COUNTY 0.7 N ZAP [47.29, -101.	07/22/11 19:28 MST 07/22/11 19:28 MST 07/22/11 19:28 MST AND [46.54, -102.87] 07/22/11 19:56 MST 07/22/11 20:00 MST England. 42, -102.56] 07/22/11 20:01 MST 07/22/11 20:06 MST 1.92] 07/22/11 20:10 CST 07/22/11 20:40 CST Fhour was received. 92] 07/22/11 20:30 CST 07/22/11 20:35 CST		0 30K 0 0 0 0	Source: County Official Thunderstorm Wind (EG 56 kt) Source: COOP Observer Hail (1.00 in) Source: Trained Spotter Heavy Rain Source: Mesonet Hail (1.25 in) Source: Trained Spotter

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	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/22/11 20:40 CST		0	Hail (1.25 in)
	07/22/11 20:46 CST		0	Source: Mesonet
MORTON COUNTY 11.9 NE GLEN ULLIN	N [46.94, -101.65], 11.6 WNW NEW 07/22/11 21:10 CST	/ SALEM [46.94, -1	01.63] 0	Tornado (EF0, L: 0.98 mi , W: 20 yd)
	07/22/11 21:10 CST		0	• •
	0//22/11 21.12 (51		U	Source: Trained Spotter
his tornado touched down in the open coun	ntry. There were no reports of dam	age associated wit	th this tornado.	
MORTON COUNTY 5.1 ENE SWEET BRI				
	07/22/11 21:45 CST		0	Hail (1.00 in)
	07/22/11 21:48 CST		0	Source: Trained Spotter
MORTON COUNTY 5.1 ENE SWEET BRI	AR [46.87, -101.09]			
	07/22/11 21:45 CST		0	Thunderstorm Wind (EG 52 kt)
	07/22/11 21:50 CST		0	Source: Trained Spotter
report of strong thunderstorm winds was re	eceived.			
MERCER COUNTY 0.8 NE PICK CITY [47	7 53 -101 461			
	07/22/11 21:54 CST		50K	Thunderstorm Wind (EG 61 kt)
	07/22/11 21:59 CST		0	Source: Public
The strong winds flipped over campers.				
MORTON COUNTY 0.5 E MANDAN [46.8	3, -100.89] 07/22/11 21:54 CST		0	Thunderstorm Wind (MG 55 kt)
				· · · · · · · · · · · · · · · · · · ·
	07/22/11 21:56 CST		0	Source: AWOS
BURLEIGH COUNTY 1.7 SW BISMARCK	[46.78, -100.79]			
	07/22/11 22:01 CST		15K	Thunderstorm Wind (EG 56 kt)
	07/22/11 22:06 CST		0	Source: Trained Spotter
arge tree branches were blown down.				
MOUNTRAIL COUNTY OF MANEW TOWN	N 147 00 400 401 0 5 N NEW TON	A/N 547 00 400 40	1 0 0 E NEW TOW	N. 547 00 400 471 0.0 COW NEW
MOUNTRAIL COUNTY 0.5 W NEW 1000	N [47.98, -102.49], 0.5 N NEW TOV	WN [47.99, -102.48	J, 0.6 E NEW 10W	N [47.98, -102.47], 0.3 SSW NEW
	07/22/11 22:03 CST		20K	Flash Flood (due to Heavy Rain)
	07/22/11 22:03 CST 07/23/11 01:15 CST		20K 0	Flash Flood (due to Heavy Rain) Source: Law Enforcement
TOWN [47.98, -102.48]	07/23/11 01:15 CST	T	0	Source: Law Enforcement
OWN [47.98, -102.48] /ery heavy rain resulted in an estimated one	07/23/11 01:15 CST e foot of water on Main Street in Ne	ew Town. Water w	0	Source: Law Enforcement
FOWN [47.98, -102.48] Very heavy rain resulted in an estimated one was no curbing the water was up against the	07/23/11 01:15 CST e foot of water on Main Street in Ne	ew Town. Water w	0	Source: Law Enforcement
FOWN [47.98, -102.48] Very heavy rain resulted in an estimated one was no curbing the water was up against the	07/23/11 01:15 CST e foot of water on Main Street in Ne	ew Town. Water w	0	Source: Law Enforcement
OWN [47.98, -102.48] Very heavy rain resulted in an estimated one was no curbing the water was up against the	07/23/11 01:15 CST e foot of water on Main Street in Ne e homes.	ew Town. Water w	0 as in yards of home	Source: Law Enforcement es and in some cases where there
OWN [47.98, -102.48] Very heavy rain resulted in an estimated one was no curbing the water was up against the	07/23/11 01:15 CST e foot of water on Main Street in Ne e homes. 83, -100.89] 07/22/11 22:06 CST	ew Town. Water w	0 as in yards of home 0	Source: Law Enforcement es and in some cases where there Hail (1.00 in)
FOWN [47.98, -102.48] Very heavy rain resulted in an estimated one was no curbing the water was up against the MORTON COUNTY 0.5 E MANDAN [46.8]	07/23/11 01:15 CST e foot of water on Main Street in Ne e homes. 33, -100.89] 07/22/11 22:06 CST 07/22/11 22:13 CST	ew Town. Water w	0 as in yards of home 0	Source: Law Enforcement es and in some cases where there Hail (1.00 in)
OWN [47.98, -102.48] Very heavy rain resulted in an estimated one was no curbing the water was up against the MORTON COUNTY 0.5 E MANDAN [46.8]	07/23/11 01:15 CST e foot of water on Main Street in Ne e homes. 93, -100.89] 07/22/11 22:06 CST 07/22/11 22:13 CST 93, -100.89] 07/22/11 22:10 CST	ew Town. Water w	0 as in yards of home 0	Source: Law Enforcement es and in some cases where there Hail (1.00 in) Source: Law Enforcement Hail (1.00 in)
OWN [47.98, -102.48] Very heavy rain resulted in an estimated one was no curbing the water was up against the MORTON COUNTY 0.5 E MANDAN [46.8]	07/23/11 01:15 CST e foot of water on Main Street in Ne e homes. 3, -100.89] 07/22/11 22:06 CST 07/22/11 22:13 CST	ew Town. Water w	0 as in yards of home 0 0	Source: Law Enforcement es and in some cases where there Hail (1.00 in) Source: Law Enforcement
FOWN [47.98, -102.48] Very heavy rain resulted in an estimated one was no curbing the water was up against the MORTON COUNTY 0.5 E MANDAN [46.8]	07/23/11 01:15 CST e foot of water on Main Street in Ne e homes. 13, -100.89] 07/22/11 22:06 CST 07/22/11 22:13 CST 13, -100.89] 07/22/11 22:10 CST 07/22/11 22:14 CST	ew Town. Water w	0 as in yards of home 0 0	Source: Law Enforcement es and in some cases where there Hail (1.00 in) Source: Law Enforcement Hail (1.00 in)
FOWN [47.98, -102.48] Very heavy rain resulted in an estimated one was no curbing the water was up against the MORTON COUNTY 0.5 E MANDAN [46.8]	07/23/11 01:15 CST e foot of water on Main Street in Ne e homes. 13, -100.89] 07/22/11 22:06 CST 07/22/11 22:13 CST 13, -100.89] 07/22/11 22:10 CST 07/22/11 22:14 CST	ew Town. Water w	0 as in yards of home 0 0	Source: Law Enforcement es and in some cases where there Hail (1.00 in) Source: Law Enforcement Hail (1.00 in)
FOWN [47.98, -102.48] Very heavy rain resulted in an estimated one was no curbing the water was up against the MORTON COUNTY 0.5 E MANDAN [46.8]	07/23/11 01:15 CST e foot of water on Main Street in Ne e homes. 13, -100.89] 07/22/11 22:06 CST 07/22/11 22:13 CST 13, -100.89] 07/22/11 22:10 CST 07/22/11 22:14 CST	ew Town. Water w	0 as in yards of home 0 0 0	Source: Law Enforcement es and in some cases where there Hail (1.00 in) Source: Law Enforcement Hail (1.00 in) Source: Trained Spotter
/ery heavy rain resulted in an estimated one was no curbing the water was up against the MORTON COUNTY 0.5 E MANDAN [46.8]	07/23/11 01:15 CST e foot of water on Main Street in Ne e homes. 33, -100.89] 07/22/11 22:06 CST 07/22/11 22:13 CST 33, -100.89] 07/22/11 22:14 CST 33, -100.89] 07/22/11 22:15 CST	ew Town. Water w	0 as in yards of home 0 0 0 0	Source: Law Enforcement es and in some cases where there Hail (1.00 in) Source: Law Enforcement Hail (1.00 in) Source: Trained Spotter Thunderstorm Wind (MG 52 kt)
/ery heavy rain resulted in an estimated one vas no curbing the water was up against the MORTON COUNTY 0.5 E MANDAN [46.8 MORTON COUNTY 0.5 E MANDAN [46.8 MORTON COUNTY 0.5 E MANDAN [46.8	07/23/11 01:15 CST e foot of water on Main Street in Ne e homes. 33, -100.89] 07/22/11 22:06 CST 07/22/11 22:13 CST 33, -100.89] 07/22/11 22:14 CST 33, -100.89] 07/22/11 22:15 CST	ew Town. Water w	0 as in yards of home 0 0 0 0	Source: Law Enforcement es and in some cases where there Hail (1.00 in) Source: Law Enforcement Hail (1.00 in) Source: Trained Spotter Thunderstorm Wind (MG 52 kt)
FOWN [47.98, -102.48] Very heavy rain resulted in an estimated one was no curbing the water was up against the MORTON COUNTY 0.5 E MANDAN [46.8] MORTON COUNTY 0.5 E MANDAN [46.8] MORTON COUNTY 0.5 E MANDAN [46.8]	07/23/11 01:15 CST e foot of water on Main Street in New Homes. 13, -100.89] 07/22/11 22:06 CST 07/22/11 22:13 CST 13, -100.89] 07/22/11 22:10 CST 07/22/11 22:14 CST 13, -100.89] 07/22/11 22:15 CST 07/22/11 22:15 CST	ew Town. Water w	0 0 0 0 0 0 0	Source: Law Enforcement es and in some cases where there Hail (1.00 in) Source: Law Enforcement Hail (1.00 in) Source: Trained Spotter Thunderstorm Wind (MG 52 kt) Source: AWOS

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
HETTINGER COUNTY 3.8 E REGENT	[46.42, -102.47]			
	07/22/11 23:00 MST		0	Hail (1.00 in)
	07/22/11 23:05 MST		0	Source: CoCoRaHS
ICINTOSH COUNTY 9.7 N ZEELAND	[46.11, -99.83], 9.4 SW WISHEK [46.	17, -99.71]		
	07/22/11 23:30 CST		65K	Thunderstorm Wind (EG 70 kt)
	07/22/11 23:45 CST		0	Source: Law Enforcement
Strong thunderstorm winds occurred northwo trees were blown down.	n of Zeeland. A quonset and pole barr	n were destroyed,	shingle and siding	damage was sustained to a home, and
ICINTOSH COUNTY 15.0 W ASHLEY	[46.03, -99.68]			
	07/22/11 23:50 CST		75K	Thunderstorm Wind (EG 70 kt)
	07/23/11 00:10 CST		0	Source: Newspaper
trong thunderstorm winds resulted in dar	mage to buildings on a farmstead, and	d damage to hay b	oales.	
TUTSMAN COUNTY 1.0 NNW WOOD)WORTH [47.16, -99.31], 3.9 WNW W	OODWORTH [47.	16, -99.38], 11.0 NN	NW WOODWORTH [47.30, -99.38], 11.3
VNW EDMUNDS [47.30, -99.20]	07/23/11 00:15 CST		25K	Flash Flood (due to Heavy Pain)
	07/23/11 04:00 CST		25K 0	Flash Flood (due to Heavy Rain) Source: COOP Observer
	07723/11 04:00 001		O	Source. Goor Observer
Some roads under water from the very he	avy rainfall.			
eastern Montana associated with a stror	ng upper level jet streak. This activit	nt. Much of the se ty pushed into we	vere weather for t stern North Dakot	his event originated over a, and tracked eastward
storm developed over south central Nor eastern Montana associated with a stror hroughout the evening. The severe wea ND-Z001) DIVIDE, (ND-Z002) BURKE, (N	th Dakota along a surface warm froi ng upper level jet streak. This activit Ither event resulted in large hail, hig	nt. Much of the se ty pushed into we gh winds, tornado	vere weather for t stern North Dakot es, and flash flood	his event originated over a, and tracked eastward ds.
eastern Montana associated with a stror hroughout the evening. The severe wea	th Dakota along a surface warm froing upper level jet streak. This activit ther event resulted in large hail, hig D-Z003) RENVILLE, (ND-Z009) WILL	nt. Much of the se ty pushed into we gh winds, tornado	vere weather for t stern North Dakot es, and flash flood MOUNTRAIL, (ND-	this event originated over a, and tracked eastward ds. -Z011) WARD
eastern Montana associated with a stror hroughout the evening. The severe wea ND-Z001) DIVIDE, (ND-Z002) BURKE, (N digh winds continued for a few hours in	th Dakota along a surface warm froing upper level jet streak. This activition ther event resulted in large hail, hig D-Z003) RENVILLE, (ND-Z009) WILL 07/22/11 22:55 CST 07/23/11 02:00 CST	nt. Much of the sety pushed into we yh winds, tornado LIAMS, (ND-Z010)	vere weather for ti stern North Dakot es, and flash flood MOUNTRAIL, (ND- 0 0	chis event originated over ta, and tracked eastward ds. -Z011) WARD High Wind (MAX 35 kt) ota. The wake low
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astern Montana associated with a stror hroughout the evening. The severe wean ND-Z001) DIVIDE, (ND-Z002) BURKE, (No-Z001) BUR	th Dakota along a surface warm froing upper level jet streak. This activit ther event resulted in large hail, hig D-Z003) RENVILLE, (ND-Z009) WILL 07/22/11 22:55 CST 07/23/11 02:00 CST the wake of convection that had met	nt. Much of the sety pushed into we yh winds, tornado LIAMS, (ND-Z010)	vere weather for ti stern North Dakot es, and flash flood MOUNTRAIL, (ND- 0 0 thwest North Dako rms had moved ea	chis event originated over ta, and tracked eastward ds. -Z011) WARD High Wind (MAX 35 kt) ota. The wake low ast. Hail (1.75 in)
eastern Montana associated with a stror hroughout the evening. The severe wean ND-Z001) DIVIDE, (ND-Z002) BURKE, (Note that the severe weans are the severe weans are the severe weans are the severe weather than the severe was a severe with the severe was a severe w	th Dakota along a surface warm froing upper level jet streak. This activition ther event resulted in large hail, hig D-Z003) RENVILLE, (ND-Z009) WILL 07/22/11 22:55 CST 07/23/11 02:00 CST the wake of convection that had much with gusts as high as 55 mph aft 51, -102.97]	nt. Much of the sety pushed into we yh winds, tornado LIAMS, (ND-Z010)	vere weather for ti stern North Dakot es, and flash flood MOUNTRAIL, (ND- 0 0 thwest North Dako	chis event originated over ta, and tracked eastward ds. -Z011) WARD High Wind (MAX 35 kt) ota. The wake low ast.
astern Montana associated with a stror hroughout the evening. The severe wean ND-Z001) DIVIDE, (ND-Z002) BURKE, (Note that the winds continued for a few hours in produced sustained winds around 40 mg SLOPE COUNTY 16.8 E AMIDON [46.5]	th Dakota along a surface warm froing upper level jet streak. This activit of their event resulted in large hail, high D-Z003) RENVILLE, (ND-Z009) WILL 07/22/11 22:55 CST 07/23/11 02:00 CST the wake of convection that had much with gusts as high as 55 mph aft 07/24/11 12:55 MST 07/24/11 13:00 MST	nt. Much of the sety pushed into we yh winds, tornado LIAMS, (ND-Z010)	vere weather for ti stern North Dakot es, and flash flood MOUNTRAIL, (ND- 0 0 thwest North Dako rms had moved ea	chis event originated over ta, and tracked eastward ds. -Z011) WARD High Wind (MAX 35 kt) ota. The wake low ast. Hail (1.75 in)
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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
There were no damage reports associated with the	e large hail.			
MORTON COUNTY 7.7 NNE GLEN ULLIN [46.9	92, -101.76]			
	07/24/11 14:22 CST		0	Hail (1.00 in)
	07/24/11 14:26 CST		0	Source: Trained Spotter
MORTON COUNTY 6.0 ENE GLEN ULLIN [46.8	35, -101.71]			
	07/24/11 14:29 CST		0	Hail (2.00 in)
	07/24/11 14:34 CST		0	Source: Public
There were no damage reports associated with the	e large hail.			
MORTON COUNTY 6.0 NNE GLEN ULLIN [46.9	90, -101.78]			
	07/24/11 14:33 CST		0	Thunderstorm Wind (EG 52 kt)
	07/24/11 14:38 CST		0	Source: Law Enforcement
Very heavy rain accompanied the strong winds.				
KIDDER COUNTY 5.2 SSW PETTIBONE [47.05	, -99.56]			
	07/24/11 14:40 CST		0	Hail (1.25 in)
	07/24/11 14:45 CST		0	Source: Trained Spotter
MORTON COUNTY 4.8 NW NEW SALEM [46.90	0, -101.49]			
•	07/24/11 14:50 CST		0	Hail (1.00 in)
	07/24/11 14:56 CST		0	Source: Trained Spotter
OLIVER COUNTY CENTER [47.12, -101.30]				
• , , , , , , , ,	07/24/11 14:53 CST		0	Hail (0.75 in)
	07/24/11 14:57 CST		0	Source: Trained Spotter
OLIVER COUNTY CENTER [47.12, -101.30]				
• / •	07/24/11 14:54 CST		0	Hail (0.88 in)
	07/24/11 14:59 CST		0	Source: Law Enforcement
BURLEIGH COUNTY 7.0 NW DRISCOLL [46.93	3100.221			
Benzien Goon : No hit Bhiogozz [16:56	07/24/11 15:05 CST		0	Hail (1.00 in)
	07/24/11 15:10 CST		0	Source: Trained Spotter
MODION COUNTY ASSOCIATION	404.047			
MORTON COUNTY 4.6 SSW JUDSON [46.77, -	101.31] 07/24/11 15:12 CST		0	Thunderstorm Wind (EG 56 kt)
	07/24/11 15:17 CST		0	Source: Public
Small hail accompanied the strong winds.				
MORTON COUNTY 6.4 SSE SWEET BRIAR [46	S.75, -101.11]			
	07/24/11 15:26 CST		0	Hail (0.75 in)
	07/24/11 15:30 CST		0	Source: Trained Spotter
STUTSMAN COUNTY 0.7 N CLEVELAND [46.8	9, -99.12]			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	07/24/11 15:26 CST		0	Hail (0.75 in)
	07/24/11 15:29 CST		0	Source: Trained Spotter
KIDDER COUNTY 1.2 NE STEELE MUNI ARPT	146 86 -99 961			
MUDER COUNTY 1.2 NE STEELE MUNI ARPT	07/24/11 15:30 CST		0	Hail (0.75 in)
	07/24/11 15:34 CST		0	Source: Trained Spotter
KIDDER COUNTY 0.8 SE STEELE MUNI ARPT	[46.84, -99.97]			

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/24/11 15:36 CST		0	Hail (0.75 in)
	07/24/11 15:40 CST		0	Source: Trained Spotter
KIDDER COUNTY 8.0 SSW TAPPEN [46.76, -8	9.67]			
	07/24/11 15:57 CST		0	Hail (1.00 in)
	07/24/11 15:59 CST		0	Source: Trained Spotter
LA MOURE COUNTY 1.7 SE ADRIAN [46.58, -	98.53]			
	07/24/11 16:20 CST		0	Hail (2.00 in)
	07/24/11 16:25 CST		0	Source: Trained Spotter
KIDDER COUNTY 10.8 NNW TUTTLE [47.29, -	100.08]			
	07/24/11 16:30 CST		0	Hail (1.00 in)
	07/24/11 16:34 CST		0	Source: Trained Spotter
FOSTER COUNTY 4.7 NW CARRINGTON ARE	 PT [47.49, -99.23]			
	07/24/11 17:05 CST		0	Hail (1.75 in)
	07/24/11 17:13 CST		0	Source: Trained Spotter
BURLEIGH COUNTY 0.8 NW BISMARCK [46.8				
	07/24/11 17:31 CST		0	Hail (0.75 in)
	07/24/11 17:35 CST		0	Source: Public
FOSTER COUNTY 0.8 SE GRACE CITY [47.54	J, -98.81]			
	07/24/11 17:33 CST		0	Hail (1.75 in)
	07/24/11 17:38 CST		0	Source: Trained Spotter
thresholds after they initialized. Severe Thunde MOUNTRAIL COUNTY 3.3 NNW STANLEY [48]		vas issueu ioi tilis	event.	
			0	Heavy Rain
	07/26/11 16:00 CST		0 0	Heavy Rain Source: COOP Observer
A rainfall total of 2.01 inches was reported.	07/26/11 16:00 CST			•
A rainfall total of 2.01 inches was reported. DICKEY COUNTY 0.8 SE FULLERTON [46.16,				•
				•
	-98.41]		0	Source: COOP Observer
	-98.41] 07/26/11 18:30 CST 07/26/11 19:30 CST	no report of floodi	0 0 0	Source: COOP Observer Heavy Rain
DICKEY COUNTY 0.8 SE FULLERTON [46.16,	-98.41] 07/26/11 18:30 CST 07/26/11 19:30 CST our was reported. There was	no report of floodi	0 0 0	Source: COOP Observer Heavy Rain Source: COOP Observer
DICKEY COUNTY 0.8 SE FULLERTON [46.16, A heavy rain amount of 2.7 inches falling in one h	-98.41] 07/26/11 18:30 CST 07/26/11 19:30 CST our was reported. There was	no report of floodi	0 0 0	Source: COOP Observer Heavy Rain
DICKEY COUNTY 0.8 SE FULLERTON [46.16, A heavy rain amount of 2.7 inches falling in one h	-98.41] 07/26/11 18:30 CST 07/26/11 19:30 CST our was reported. There was	no report of floodi	0 0 0	Source: COOP Observer Heavy Rain Source: COOP Observer
DICKEY COUNTY 0.8 SE FULLERTON [46.16, A heavy rain amount of 2.7 inches falling in one h	-98.41] 07/26/11 18:30 CST 07/26/11 19:30 CST our was reported. There was 3] 07/26/11 18:50 CST 07/26/11 18:55 CST	no report of floodi	0 0 0	Source: COOP Observer Heavy Rain Source: COOP Observer Thunderstorm Wind (EG 52 kt)
DICKEY COUNTY 0.8 SE FULLERTON [46.16, A heavy rain amount of 2.7 inches falling in one h DICKEY COUNTY 0.7 N LUDDEN [46.01, -98.1] The strong winds blew down several tree branche An extensive area of low clouds which persiste occurring over west and central North Dakota de	-98.41] 07/26/11 18:30 CST 07/26/11 19:30 CST our was reported. There was 3] 07/26/11 18:50 CST 07/26/11 18:55 CST es. d well into the afternoon prefuring the afternoon and ever	evented a much la ening of July 26th.	0 0 0 ng. 0 0	Heavy Rain Source: COOP Observer Thunderstorm Wind (EG 52 kt) Source: Emergency Manager evere weather from f a severe thunderstorm
DICKEY COUNTY 0.8 SE FULLERTON [46.16, A heavy rain amount of 2.7 inches falling in one h DICKEY COUNTY 0.7 N LUDDEN [46.01, -98.1] The strong winds blew down several tree branche An extensive area of low clouds which persiste occurring over west and central North Dakota de	-98.41] 07/26/11 18:30 CST 07/26/11 19:30 CST our was reported. There was 3] 07/26/11 18:50 CST 07/26/11 18:55 CST es. d well into the afternoon prefuring the afternoon and everywatch number 688 and Torr 03.36]	evented a much la ening of July 26th.	0 0 ng. 0 0 rger outbreak of so Only one report o	Heavy Rain Source: COOP Observer Thunderstorm Wind (EG 52 kt) Source: Emergency Manager evere weather from f a severe thunderstorm ct for this event.
DICKEY COUNTY 0.8 SE FULLERTON [46.16, A heavy rain amount of 2.7 inches falling in one h DICKEY COUNTY 0.7 N LUDDEN [46.01, -98.1] The strong winds blew down several tree branches An extensive area of low clouds which persisted occurring over west and central North Dakota d wind gust was received. Severe Thunderstorm to	-98.41] 07/26/11 18:30 CST 07/26/11 19:30 CST our was reported. There was 3] 07/26/11 18:50 CST 07/26/11 18:55 CST es. d well into the afternoon preduring the afternoon and everywatch number 688 and Torr 03.36] 07/26/11 09:02 CST	evented a much la ening of July 26th.	0 0 0 ng. 0 0 overger outbreak of so Only one report o er 689 were in effe	Heavy Rain Source: COOP Observer Thunderstorm Wind (EG 52 kt) Source: Emergency Manager evere weather from f a severe thunderstorm ct for this event. Hail (0.88 in)
DICKEY COUNTY 0.8 SE FULLERTON [46.16, A heavy rain amount of 2.7 inches falling in one h DICKEY COUNTY 0.7 N LUDDEN [46.01, -98.1] The strong winds blew down several tree branches An extensive area of low clouds which persisted occurring over west and central North Dakota d wind gust was received. Severe Thunderstorm to	-98.41] 07/26/11 18:30 CST 07/26/11 19:30 CST our was reported. There was 3] 07/26/11 18:50 CST 07/26/11 18:55 CST es. d well into the afternoon prefuring the afternoon and everywatch number 688 and Torr 03.36]	evented a much la ening of July 26th.	0 0 ng. 0 0 rger outbreak of so Only one report o	Heavy Rain Source: COOP Observer Thunderstorm Wind (EG 52 kt) Source: Emergency Manager evere weather from f a severe thunderstorm ct for this event.
DICKEY COUNTY 0.8 SE FULLERTON [46.16, A heavy rain amount of 2.7 inches falling in one h DICKEY COUNTY 0.7 N LUDDEN [46.01, -98.1] The strong winds blew down several tree branches An extensive area of low clouds which persisted occurring over west and central North Dakota d wind gust was received. Severe Thunderstorm to	-98.41] 07/26/11 18:30 CST 07/26/11 19:30 CST our was reported. There was 3] 07/26/11 18:50 CST 07/26/11 18:55 CST es. d well into the afternoon pre- uring the afternoon and eve- Watch number 688 and Torr 03.36] 07/26/11 09:02 CST 07/26/11 09:12 CST	evented a much la ening of July 26th.	0 0 0 ng. 0 0 overger outbreak of so Only one report o er 689 were in effe	Heavy Rain Source: COOP Observer Thunderstorm Wind (EG 52 kt) Source: Emergency Manager evere weather from f a severe thunderstorm ct for this event. Hail (0.88 in)

07/26/11 09:57 CST

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Source: Public

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A late morning thunderstorm over Williams	County produced large hail.			
WARD COUNTY 0.8 SSW BERTHOLD [48	.31, -101.74]			
-	07/28/11 13:20 CST		0	Hail (0.88 in)
	07/28/11 13:25 CST		0	Source: Public
NARD COUNTY BURLINGTON [48.28, -10	01.42]			
	07/28/11 13:28 CST		0	Hail (0.75 in)
	07/28/11 13:32 CST		0	Source: Public
A strong thunderstorm over Ward County in	north central North Dakota pro	duced large hail.		
GRANT COUNTY ELGIN [46.40, -101.85]				
_	07/29/11 07:30 MST		0	Hail (1.00 in)
	07/29/11 07:45 MST		0	Source: Trained Spotter
SLOPE COUNTY 1.2 SW MARMARTH [46	.29, -103.92]			
	07/29/11 17:36 MST		0	Hail (1.75 in)
	07/29/11 17:43 MST		0	Source: Law Enforcement
BOWMAN COUNTY 10.0 W RHAME [46.23	3, -103.86]			
	07/29/11 17:50 MST		0	Hail (2.50 in)
	07/29/11 18:00 MST		0	Source: Emergency Manager
There were no damage reports received.				
SLOPE COUNTY 6.8 ENE MARMARTH [46				
	07/29/11 17:52 MST		0	Hail (0.75 in)
	07/29/11 17:56 MST		0	Source: Emergency Manager
GOLDEN VALLEY COUNTY TROTTERS [
	07/29/11 20:00 MST		0	Hail (1.00 in)
	07/29/11 20:15 MST		0	Source: COOP Observer
GOLDEN VALLEY COUNTY 15.1 NNE SEI	•			
	07/29/11 21:12 MST		0	Hail (1.50 in)
	07/29/11 21:17 MST		0	Source: Mesonet
GOLDEN VALLEY COUNTY 20.0 NE BEA	= =			
	07/29/11 21:12 MST		0	Thunderstorm Wind (EG 61 kt)
	07/29/11 21:17 MST		0	Source: Mesonet
Large hail accompanied the strong winds.				
MOUNTRAIL COUNTY 0.5 W STANLEY [4	•		014	Thursday Long Mr. 1/70 0110
	07/29/11 21:42 CST		8K	Thunderstorm Wind (EG 61 kt)
	07/29/11 21:49 CST		0	Source: Emergency Manager
The strong winds destroyed a baseball dugou	t and snapped a ten inch in diam	eter tree.		
MOUNTRAIL COUNTY PARSHALL [47.97			01/	Thursdaystern Wird (FO FO H)
	07/29/11 21:45 CST		8K	Thunderstorm Wind (EG 52 kt)
	07/29/11 21:49 CST		0	Source: Public
The strong winds lasted a few minutes.				
The strong winds lasted a few minutes. BURLEIGH COUNTY 5.8 SSE DRISCOLL	[46.77, -100.09]			

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/29/11 22:00 CST		0	Heavy Rain
	07/30/11 04:00 CST		0	Source: COOP Observer
Vaves of thunderstorms moved through with a	storm total rainfall measured at	3.5 inches.		
BURLEIGH COUNTY 5.0 E BISMARCK [46.			0	Hail (4 00 ia)
	07/29/11 22:16 CST		0	Hail (1.00 in)
	07/29/11 22:21 CST		0	Source: Public
IDDER COUNTY 7.9 SW TUTTLE [47.07, -	100.10]			
	07/29/11 23:25 CST		0	Hail (1.00 in)
	07/29/11 23:29 CST		0	Source: Trained Spotter
TUTSMAN COUNTY 10.0 NNW WOODWO	DRTH [47.2899.38]			
10.0 1	07/29/11 23:30 CST		0	Thunderstorm Wind (EG 52 kt)
	07/29/11 23:50 CST		0	Source: Trained Spotter
trang winds gusted multiple times during this	tima pariad			•
trong winds gusted multiple times during this t	шпе репос.			
VELLS COUNTY 2.0 S HARVEY [47.74, -99	=		0	Thursdevetors Wind (FC FC Lt)
	07/29/11 23:45 CST		0	Thunderstorm Wind (EG 52 kt)
	07/29/11 23:52 CST		0	Source: Trained Spotter
strong winds were reported.				
URLEIGH COUNTY 8.0 N BISMARCK [46.	91, -100.74]			
	07/30/11 02:00 CST		0.19M	Lightning
	07/30/11 02:00 CST		0	Source: Newspaper
A lightning strike to a rural north Bismarck hom WORTON COUNTY 6.5 ENE SWEET BRIAR	R [46.86, -101.05]	ne nome several n		
	07/30/11 02:05 CST		0	Hail (1.00 in)
	07/30/11 02:10 CST		0	Source: Public
IORTON COUNTY 7.6 NE SWEET BRIAR [[46.91, -101.07]			
	07/30/11 02:10 CST		25K	Hail (2.50 in)
	07/30/11 02:18 CST		0	Source: Public
he large hail dented cars.				
/ARD COUNTY MINOT [48.23, -101.28]				
• /	07/30/11 02:17 CST		0	Hail (1.00 in)
	07/30/11 02:21 CST		0	Source: Law Enforcement
URLEIGH COUNTY 2.5 NW BISMARCK [4	L6 82 -100 811 25 NE RISMAD	CK [46 83 -100 74	1 18 FNF (RIS)PI	SMARCK MIINI A 146 79 -100 721 23
W BISMARCK [46.78, -100.81]		o.t [+0.00, *100./4		
	07/30/11 02:45 CST		50K	Flash Flood (due to Heavy Rain)
	07/30/11 06:00 CST		0	Source: Mesonet
fultiple reports were received from across Bisr rainage areas of the city. In some cases water	•		-	
URLEIGH COUNTY 0.8 SW STERLING [46				
	07/30/11 03:00 CST		0	Thunderstorm Wind (EG 52 kt)
	07/30/11 03:10 CST		0	Source: Trained Spotter
he strong winds lasted a few minutes.				

LOGAN COUNTY --- 9.6 E NAPOLEON [46.52, -99.57]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/30/11 03:09 CST		0	Hail (1.75 in)
	07/30/11 03:22 CST		0	Source: Mesonet
DICKEY COUNTY 8.0 ESE ELLEN	DALE [45.96, -98.37]			
	07/30/11 05:20 CST		0	Hail (1.50 in)
	07/30/11 05:29 CST		0	Source: Public
LA MOURE COUNTY 15.0 W LA N	OURE [46.35, -98.61], LA MOURE [46.3	5, -98.30]		
	07/30/11 05:30 CST		80K	Thunderstorm Wind (EG 74 kt)
	07/30/11 05:45 CST		0	Source: Emergency Manager

Two waves of severe weather struck west and central North Dakota from the evening of the 29th through the early morning hours of the 30th.

The first wave of storms occurred along a surface warm front over the south and along a cool front across the north during the evening hours to just after midnight central time. Several severe thunderstorm warnings were issued, with multiple reports of large hail and strong winds received. Severe Thunderstorm Watch number 702 was in effect for this period.

The second wave of storms occurred along the cool front as it moved south into south central and southeast North Dakota, with support from a short wave trough and a strengthening low level jet. Several severe thunderstorm warnings were issued, with reports of large hail, strong winds, and heavy rain received.

ADAMS COUNTY 6.2 S REEDER [4	· · · · · · · · · · · · · · · · · · ·	0	Hail (0.00 in)	
	07/31/11 18:55 MST	0	Hail (2.00 in)	
	07/31/11 19:00 MST	0	Source: Trained Spotter	
SIOUX COUNTY 49.9 W SELFRIDG	E [46.04, -101.97]			
	07/31/11 19:15 MST	15K	Thunderstorm Wind (EG 70 kt)	
	07/31/11 19:25 MST	0	Source: Trained Spotter	
The very strong winds tore a small dec	k off of a house.			
ADAMS COUNTY 14.7 NNE BUCYF	RUS [46.26, -102.64]			
	07/31/11 19:20 MST	0	Hail (0.75 in)	
	07/31/11 19:25 MST	0	Source: Trained Spotter	
HETTINGER COUNTY 5.3 W MOTT	[46.37, -102.43]			
	07/31/11 19:44 MST	0	Hail (1.00 in)	
	07/31/11 19:52 MST	0	Source: Trained Spotter	
GRANT COUNTY 13.3 SSE NEW LI	EIPZIG [46.19, -101.85], CARSON [46.42, -101.57]			
	07/31/11 19:45 MST	0.50M	Thunderstorm Wind (EG 70 kt)	
	07/31/11 20:15 MST	0	Source: Emergency Manager	
_arge trees were blown down in the cit armsteads.	y of Carson. Structural damage also occurred to m	any local buildings in the	e city of Carson and surrounding	
MORTON COUNTY 5.1 ENE SWEE	- · · · -			
	07/31/11 21:43 CST	0	Thunderstorm Wind (MG 52 kt)	
	07/31/11 21:51 CST	0	Source: Amateur Radio	
BURLEIGH COUNTY 7.7 NNW BISI	MARCK [46.90, -100.84]			
	07/31/11 21:45 CST	35K	Thunderstorm Wind (EG 61 kt)	
	01701711 21:10 001			

MORTON COUNTY --- 0.5 E MANDAN [46.83, -100.89]

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Injuries	Property & Crop Dmg	Event Type and Details
07/31/11 21:55 CST	25K	Thunderstorm Wind (EG 61 kt)
07/31/11 22:22 CST	0	Source: Amateur Radio
Heavy rain accompanied the strong winds. Trees were downed in Mandan.		
BURLEIGH COUNTY (BIS)BISMARCK MUNI A [46.78, -100.75]		
07/31/11 21:56 CST	0.20K	Thunderstorm Wind (MG 59 kt)
07/31/11 22:24 CST	0	Source: ASOS
This was the peak wind, 68 mph, measured at the National Weather Service ASOS at the Bism gusted at or above 60 mph for 20 minutes. A small tree was snapped at the National Weather SBismarck.	•	
MORTON COUNTY 0.5 E MANDAN [46.83, -100.89], 1.4 E MANDAN [46.83, -100.87], 1.4 E	MANDAN [46.83, -10	00.87], 0.6 ESE MANDAN [46.83,
07/31/11 22:04 CST	5K	Flash Flood (due to Heavy Rain)
07/31/11 23:59 CST	0	Source: NWS Employee
Very heavy rain was creating flash flood conditions in Mandan.		
BURLEIGH COUNTY 7.2 N BISMARCK [46.90, -100.77], 1.7 ENE BISMARCK [46.81, -100.7 07/31/11 22:10 CST	74] 35K	Thunderstorm Wind (EG 74 kt)
07/31/11 22:22 CST	0	Source: NWS Employee
07/31/11 22.22 631	U	Source: NWS Employee
BURLEIGH COUNTY 7.1 N BISMARCK [46.90, -100.79] 07/31/11 22:18 CST	0	Thunderstorm Wind (MG 68 kt)
07/31/11 22:23 CST	0	Source: Mesonet
BURLEIGH COUNTY 0.7 NW (BIS)BISMARCK MUNI A [46.79, -100.76], 0.9 ESE BISMARC	K [46.80, -100.75], 1.	1 WSW BISMARCK [46.80, -100.79],
1.4 SW BISMARCK [46.79, -100.79], 0.9 WNW (BIS)BISMARCK MUNI A [46.78, -100.77]		
1.4 SW BISMARCK [46.79, -100.79], 0.9 WNW (BIS)BISMARCK MUNI A [46.78, -100.77] 07/31/11 22:33 CST	5K	Flash Flood (due to Heavy Rain)
1.4 SW BISMARCK [46.79, -100.79], 0.9 WNW (BIS)BISMARCK MUNI A [46.78, -100.77]		
1.4 SW BISMARCK [46.79, -100.79], 0.9 WNW (BIS)BISMARCK MUNI A [46.78, -100.77] 07/31/11 22:33 CST 07/31/11 23:59 CST	5K	Flash Flood (due to Heavy Rain)
1.4 SW BISMARCK [46.79, -100.79], 0.9 WNW (BIS)BISMARCK MUNI A [46.78, -100.77] 07/31/11 22:33 CST 07/31/11 23:59 CST Numerous roads were reported to have over one foot of water on them. BURLEIGH COUNTY 0.8 SW STERLING [46.81, -100.29], 6.9 S ARENA [47.03, -100.16]	5K 0	Flash Flood (due to Heavy Rain) Source: Amateur Radio
1.4 SW BISMARCK [46.79, -100.79], 0.9 WNW (BIS)BISMARCK MUNI A [46.78, -100.77] 07/31/11 22:33 CST 07/31/11 23:59 CST Numerous roads were reported to have over one foot of water on them. BURLEIGH COUNTY 0.8 SW STERLING [46.81, -100.29], 6.9 S ARENA [47.03, -100.16] 07/31/11 22:35 CST	5K 0	Flash Flood (due to Heavy Rain) Source: Amateur Radio Thunderstorm Wind (EG 70 kt)
1.4 SW BISMARCK [46.79, -100.79], 0.9 WNW (BIS)BISMARCK MUNI A [46.78, -100.77] 07/31/11 22:33 CST 07/31/11 23:59 CST Numerous roads were reported to have over one foot of water on them. BURLEIGH COUNTY 0.8 SW STERLING [46.81, -100.29], 6.9 S ARENA [47.03, -100.16]	5K 0	Flash Flood (due to Heavy Rain) Source: Amateur Radio
1.4 SW BISMARCK [46.79, -100.79], 0.9 WNW (BIS)BISMARCK MUNI A [46.78, -100.77] 07/31/11 22:33 CST 07/31/11 23:59 CST Numerous roads were reported to have over one foot of water on them. BURLEIGH COUNTY 0.8 SW STERLING [46.81, -100.29], 6.9 S ARENA [47.03, -100.16] 07/31/11 22:35 CST 07/31/11 22:53 CST	5K 0	Flash Flood (due to Heavy Rain) Source: Amateur Radio Thunderstorm Wind (EG 70 kt)
1.4 SW BISMARCK [46.79, -100.79], 0.9 WNW (BIS)BISMARCK MUNI A [46.78, -100.77] 07/31/11 22:33 CST 07/31/11 23:59 CST Numerous roads were reported to have over one foot of water on them. BURLEIGH COUNTY 0.8 SW STERLING [46.81, -100.29], 6.9 S ARENA [47.03, -100.16] 07/31/11 22:35 CST 07/31/11 22:53 CST The strong winds resulted in extensive tree damage throughout the town of Sterling.	5K 0 40K 0	Flash Flood (due to Heavy Rain) Source: Amateur Radio Thunderstorm Wind (EG 70 kt) Source: Trained Spotter
1.4 SW BISMARCK [46.79, -100.79], 0.9 WNW (BIS)BISMARCK MUNI A [46.78, -100.77] 07/31/11 22:33 CST 07/31/11 23:59 CST Numerous roads were reported to have over one foot of water on them. BURLEIGH COUNTY 0.8 SW STERLING [46.81, -100.29], 6.9 S ARENA [47.03, -100.16] 07/31/11 22:35 CST 07/31/11 22:53 CST The strong winds resulted in extensive tree damage throughout the town of Sterling. MCLEAN COUNTY COLEHARBOR [47.55, -101.22] 07/31/11 22:52 CST	5K 0 40K 0	Flash Flood (due to Heavy Rain) Source: Amateur Radio Thunderstorm Wind (EG 70 kt) Source: Trained Spotter Thunderstorm Wind (MG 52 kt)
07/31/11 23:59 CST Numerous roads were reported to have over one foot of water on them. BURLEIGH COUNTY 0.8 SW STERLING [46.81, -100.29], 6.9 S ARENA [47.03, -100.16] 07/31/11 22:35 CST 07/31/11 22:53 CST The strong winds resulted in extensive tree damage throughout the town of Sterling. MCLEAN COUNTY COLEHARBOR [47.55, -101.22]	5K 0 40K 0	Flash Flood (due to Heavy Rain) Source: Amateur Radio Thunderstorm Wind (EG 70 kt) Source: Trained Spotter
1.4 SW BISMARCK [46.79, -100.79], 0.9 WNW (BIS)BISMARCK MUNI A [46.78, -100.77] 07/31/11 22:33 CST 07/31/11 23:59 CST Numerous roads were reported to have over one foot of water on them. BURLEIGH COUNTY 0.8 SW STERLING [46.81, -100.29], 6.9 S ARENA [47.03, -100.16] 07/31/11 22:35 CST 07/31/11 22:53 CST The strong winds resulted in extensive tree damage throughout the town of Sterling. MCLEAN COUNTY COLEHARBOR [47.55, -101.22] 07/31/11 22:52 CST	5K 0 40K 0	Flash Flood (due to Heavy Rain) Source: Amateur Radio Thunderstorm Wind (EG 70 kt) Source: Trained Spotter Thunderstorm Wind (MG 52 kt)
1.4 SW BISMARCK [46.79, -100.79], 0.9 WNW (BIS)BISMARCK MUNI A [46.78, -100.77] 07/31/11 22:33 CST 07/31/11 23:59 CST Numerous roads were reported to have over one foot of water on them. BURLEIGH COUNTY 0.8 SW STERLING [46.81, -100.29], 6.9 S ARENA [47.03, -100.16] 07/31/11 22:35 CST 07/31/11 22:53 CST The strong winds resulted in extensive tree damage throughout the town of Sterling. MCLEAN COUNTY COLEHARBOR [47.55, -101.22] 07/31/11 22:52 CST 07/31/11 22:57 CST	5K 0 40K 0	Flash Flood (due to Heavy Rain) Source: Amateur Radio Thunderstorm Wind (EG 70 kt) Source: Trained Spotter Thunderstorm Wind (MG 52 kt)
1.4 SW BISMARCK [46.79, -100.79], 0.9 WNW (BIS)BISMARCK MUNI A [46.78, -100.77] 07/31/11 22:33 CST 07/31/11 23:59 CST Numerous roads were reported to have over one foot of water on them. BURLEIGH COUNTY 0.8 SW STERLING [46.81, -100.29], 6.9 S ARENA [47.03, -100.16] 07/31/11 22:35 CST 07/31/11 22:53 CST The strong winds resulted in extensive tree damage throughout the town of Sterling. MCLEAN COUNTY COLEHARBOR [47.55, -101.22] 07/31/11 22:57 CST FOSTER COUNTY 5.0 SE CARRINGTON [47.40, -99.05]	5K 0 40K 0	Flash Flood (due to Heavy Rain) Source: Amateur Radio Thunderstorm Wind (EG 70 kt) Source: Trained Spotter Thunderstorm Wind (MG 52 kt) Source: Mesonet

The strong winds blew down trees near Carrington.

Tornado Watch Number 706 and Severe Thunderstorm Watch Number 707 were in effect for this event.

A strong capping inversion initially prevented storms from developing across North Dakota. Eventually, severe storms over northwest South Dakota continued to propagate northeast into far southwest and south central North Dakota during the mid to late evening as a surface warm front lifted north. These storms continued east and north into the early morning hours of August 1st, with additional development across the south central and southeast as a result of a strengthening low level jet. Most significant was the strong wind duration with these storms.

See the August 1 Storm Data entries.

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Location Date/Time Deaths & Property & Event Type and Details Injuries Crop Dmg

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