Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
NORTH DAKOTA, Central and Wes	t			
MCLEAN COUNTY GARRISON [47.65, -10	01.421			
	07/01/10 00:19 CST		0	Thunderstorm Wind (EG 56 kt)
	07/01/10 00:30 CST		0	Source: Public
Heavy rain accompanied the strong thunders	torm winds.			
MCLEAN COUNTY COLEHARBOR [47.55	-101 221			
	07/01/10 00:23 CST		0	Thunderstorm Wind (EG 61 kt)
	07/01/10 00:34 CST		0	Source: Public
Heavy rain accompanied the strong thunders	torm winds.			
MOUENBY COUNTY TOWNED 149 25 40	0.401			
MCHENRY COUNTY TOWNER [48.35, -10	07/01/10 01:40 CST		0	Thunderstorm Wind (EG 52 kt)
	07/01/10 01: 4 0 CST		0	Source: Public
Otrong winds age	37,317 10 01.00 001		Ü	234100.1 40110
Strong winds accompanied large hail.				
MCHENRY COUNTY TOWNER [48.35, -10	=		•	11.11.44.00:)
	07/01/10 01:40 CST		0	Hail (1.00 in)
	07/01/10 01:55 CST		0	Source: Public
MCHENRY COUNTY 4.8 N TOWNER [48.4	12, -100.40]			
	07/01/10 01:58 CST		5K	Thunderstorm Wind (MG 74 kt)
	07/01/10 02:07 CST		0	Source: Public
ROLETTE COUNTY 3.0 SE ROLETTE [48.	07/01/10 02:30 CST		0	Hail (1.00 in)
	07/01/10 02:40 CST		0	Source: COOP Observer
ROLETTE COUNTY 0.8 NNW BELCOURT	[48.84, -99.74]			
	07/01/10 02:55 CST		5K	Thunderstorm Wind (EG 50 kt)
	07/01/10 03:05 CST		0	Source: Law Enforcement
Numerous tree branches were reported down	L			
ROLETTE COUNTY 1.1 NW ROLLA [48.86	6, -99.62]			
-	07/01/10 03:00 CST		5K	Thunderstorm Wind (EG 50 kt)
	07/01/10 03:10 CST		0	Source: Law Enforcement
Brief power outages occurred in Rolla due to	the strong winds.			
During the early to mid evening hours of We	adnosday lung 20th Sovers Th	understorm Wate	h number 434 wee	sissuad for southwest
and west central North Dakota in anticipation North Dakota. These thunderstorms were as was later expanding to include north centra	on of strong to severe thunders ssociated with a weak mid level	torms over southe wave lifting north	eastern Montana a least into the Nort	dvecting northeast into hern Plains. The watch
helping to sustain severe convection into the	ne early morning hours of Thurs	sday, July 1st.		
Several additional severe thunderstorm war gusts and two reports of large hail were rec	=	day morning. Seve	ral reports of seve	ere thunderstorm wind
Please see the storm data entry for June 30	th for additional reports related	to this episode.		
WILLIAMS COUNTY 0.5 W WILLISTON [4	8.15, -103.63]			
	07/02/10 00:25 CST		0	Thunderstorm Wind (EG 52 kt)
	07/00/40 00:0F CCT		•	Course I au Enfancement

07/02/10 00:35 CST

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Source: Law Enforcement

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Strong winds were reported in the city of Williston	, resulting in power bumps a	nd displaced trash	dumpsters.	
WILLIAMS COUNTY 0.5 W GRENORA [48.62,	-103.94]			
·	07/02/10 00:35 CST		0	Thunderstorm Wind (EG 52 kt)
	07/02/10 00:45 CST		0	Source: Public
Very heavy rain accompanied the strong thunders	storm winds.			
WILLIAMS COUNTY 0.5 W ZAHL [48.57, -103.	69]			
	07/02/10 00:50 CST		0	Thunderstorm Wind (EG 52 kt)
	07/02/10 01:00 CST		0	Source: Public
The strong thunderstorm winds were reported at a	a camp ground in Zahl.			
DIVIDE COUNTY 0.8 SSW CROSBY [48.91, -1	03.29]			
•	07/02/10 01:09 CST		0	Thunderstorm Wind (MG 50 kt)
	07/02/10 01:16 CST		0	Source: Department of Highways
DIVIDE COUNTY 5.5 N NOONAN [48.96, -103.	01] 07/02/10 01:30 CST		0	Thunderstorm Wind (EG 52 kt)
	07/02/10 01:39 CST		0	Source: Law Enforcement
Very heavy rain and frequent lightning accompani	ed the strong winds.			
	Č			
In the late evening hours of Thursday, July 1st,				
anticipation of a bowing multicellular thunderst	-			
an increasingly moist and unstable environmen				
southern half dissipated. The storm moved acro			-	
prompted several severe thunderstorm warning	s. Several reports of severe	thunderstorm wi	nd gusts were rec	eived.
ADAMS COUNTY 17.7 NNE HAYNES [46.21, -	102.34]			
	07/02/10 17:23 MST		0	Hail (1.25 in)
	07/02/10 17:38 MST		0	Source: Trained Spotter
An isolated and short-lived severe thunderstorn	n resulted in one report of l	arge hail over Ada	ms County in sou	thwest North Dakota.
MOUNTRAIL COUNTY 1.4 E NEW TOWN [47.9]	98 -102 451			
1.4 E NEW TOWN [47.	07/02/10 22:41 CST		0	Hail (1.00 in)
	07/02/10 22:53 CST		0	Source: Public
MOUNTRAIL COUNTY 0.5 W STANLEY [48.32	2, -102.39] 07/02/10 23:45 CST		0	Hail (0.75 in)
	07/02/10 23:52 CST		0	Source: Trained Spotter
	07/02/10 23:32 031		U	Source. Trained Spotter
WARD COUNTY KENMARE [48.67, -102.08]				
	07/03/10 00:00 CST		0	Hail (1.00 in)
	07/03/10 00:10 CST		0	Source: Public
BURKE COUNTY 11.9 S COTEAU [48.58, -102	2.281			
	07/03/10 00:04 CST		0	Hail (1.00 in)
	07/03/10 00:11 CST		0	Source: Public
WARD COUNTY VENIMADE 140 07 400 003				
WARD COUNTY KENMARE [48.67, -102.08]	07/03/10 00:05 CST		0	Hail (1.75 in)
	07/03/10 00:13 CST		0	Source: Public
RENVILLE COUNTY 0.8 SSW MOHALL [48.76	i, -101.51]			
	07/03/10 00:45 CST		0	Hail (1.00 in)
	07/03/10 00:55 CST		0	Source: Public

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Deaths &

Property &

Event Type and Details

Date/Time

Location

Several reports of large hail were received.

DUNN COUNTY --- 1.7 NE HALLIDAY [47.37, -102.31]

		Injuries	Crop Dmg		
WILLIAMS COUNTY 2.8 E BONETRA	ILL [48.42, -103.79]				
	07/03/10 00:50 CST		0	Hail (1.75 in)	
	07/03/10 00:59 CST		0	Source: Public	
/ILLIAMS COUNTY 2.8 NW SPRING	BROOK [48.28, -103.51]				
	07/03/10 01:18 CST		0	Hail (1.00 in)	
	07/03/10 01:25 CST		0	Source: Public	
OTTINEAU COUNTY 6.9 S WESTHO	OPE [48.82, -101.02]				
	07/03/10 01:22 CST		0	Hail (1.00 in)	
	07/03/10 01:32 CST		0	Source: Public	
VILLIAMS COUNTY 4.2 N EPPING [4	8.34, -103.36]				
•	07/03/10 01:35 CST		0	Hail (1.75 in)	
	07/03/10 01:45 CST		0	Source: Public	
VILLIAMS COUNTY 0.5 W WILLISTO	DN [48.15, -103.63]				
and 000 0.0 17 171.E1010	07/03/10 02:51 CST		0	Hail (1.75 in)	
	07/03/10 03:03 CST		0	Source: NWS Employee	
	VOOD [48.96, -101.63]		0	Hail (2.00 in)	
RENVILLE COUNTY 0.8 SSW SHERW	07/00/40 00:F0 CCT				
Scattered thunderstorms which develop entral North Dakota later in the evenin was confined along a surface boundary	g of Friday, July 2nd and through th , which stretched northeast from eas	e early morning h stern Montana ac	nours of Saturday, ross northern Nort	Source: Trained Spotter northwest and north July 3rd. The best forcing	
Scattered thunderstorms which develop central North Dakota later in the evenin was confined along a surface boundary Numerous severe thunderstorm warnin	07/03/10 04:02 CST ped earlier over eastern Montana ever of Friday, July 2nd and through the properties of the work of the wo	e early morning h stern Montana ac	0 red northeast into nours of Saturday, ross northern Nort	Source: Trained Spotter northwest and north July 3rd. The best forcing	
Scattered thunderstorms which develop central North Dakota later in the evenin vas confined along a surface boundary Numerous severe thunderstorm warnin	07/03/10 04:02 CST ped earlier over eastern Montana ever of Friday, July 2nd and through the properties of the work of the wo	e early morning h stern Montana ac	0 red northeast into nours of Saturday, ross northern Nort	Source: Trained Spotter northwest and north July 3rd. The best forcing	
Scattered thunderstorms which develop central North Dakota later in the evenin vas confined along a surface boundary Numerous severe thunderstorm warnin	07/03/10 04:02 CST ped earlier over eastern Montana eving of Friday, July 2nd and through the which stretched northeast from easings were issued, along with numeroundal thanks.	e early morning h stern Montana ac	0 ed northeast into nours of Saturday, ross northern Nort e hail.	Source: Trained Spotter northwest and north July 3rd. The best forcing th Dakota.	
Scattered thunderstorms which develop central North Dakota later in the evenin was confined along a surface boundary Numerous severe thunderstorm warnin MOUNTRAIL COUNTY 6.2 SW PARSI	07/03/10 04:02 CST ped earlier over eastern Montana eving of Friday, July 2nd and through the which stretched northeast from easings were issued, along with numerous HALL ARPT [47.88, -102.24] 07/05/10 13:58 CST 07/05/10 14:01 CST	e early morning h stern Montana ac	0 eed northeast into nours of Saturday, ross northern Nort e hail.	Source: Trained Spotter northwest and north July 3rd. The best forcing th Dakota. Hail (1.00 in)	
Scattered thunderstorms which develop central North Dakota later in the evenin vas confined along a surface boundary Numerous severe thunderstorm warnin	07/03/10 04:02 CST ped earlier over eastern Montana eving of Friday, July 2nd and through the which stretched northeast from easings were issued, along with numerous HALL ARPT [47.88, -102.24] 07/05/10 13:58 CST 07/05/10 14:01 CST	e early morning h stern Montana ac	0 eed northeast into nours of Saturday, ross northern Nort e hail.	Source: Trained Spotter northwest and north July 3rd. The best forcing th Dakota. Hail (1.00 in)	
Scattered thunderstorms which develop tentral North Dakota later in the evenin was confined along a surface boundary lumerous severe thunderstorm warnin	ped earlier over eastern Montana eving of Friday, July 2nd and through the which stretched northeast from easings were issued, along with numerous HALL ARPT [47.88, -102.24] 07/05/10 13:58 CST 07/05/10 14:01 CST	e early morning h stern Montana ac	0 eed northeast into nours of Saturday, ross northern North e hail. 0 0	Source: Trained Spotter northwest and north July 3rd. The best forcing th Dakota. Hail (1.00 in) Source: Trained Spotter	
Scattered thunderstorms which developmentral North Dakota later in the evening was confined along a surface boundary Numerous severe thunderstorm warning MOUNTRAIL COUNTY 6.2 SW PARSMOUNTRAIL COUNTY 6.4 ESE NEW	07/03/10 04:02 CST ped earlier over eastern Montana eving of Friday, July 2nd and through the which stretched northeast from easings were issued, along with numerous HALL ARPT [47.88, -102.24] 07/05/10 13:58 CST 07/05/10 14:01 CST TOWN [47.95, -102.35] 07/05/10 14:15 CST 07/05/10 14:25 CST	e early morning h stern Montana ac	0 eed northeast into nours of Saturday, ross northern Northeantl. 0 0 0	Source: Trained Spotter northwest and north July 3rd. The best forcing th Dakota. Hail (1.00 in) Source: Trained Spotter Hail (1.50 in)	
Scattered thunderstorms which developmentral North Dakota later in the evening was confined along a surface boundary Numerous severe thunderstorm warning MOUNTRAIL COUNTY 6.2 SW PARSMOUNTRAIL COUNTY 6.4 ESE NEW	07/03/10 04:02 CST ped earlier over eastern Montana eving of Friday, July 2nd and through the which stretched northeast from easings were issued, along with numerous HALL ARPT [47.88, -102.24] 07/05/10 13:58 CST 07/05/10 14:01 CST TOWN [47.95, -102.35] 07/05/10 14:15 CST 07/05/10 14:25 CST	e early morning h stern Montana ac	0 eed northeast into nours of Saturday, ross northern Northeantl. 0 0 0	Source: Trained Spotter northwest and north July 3rd. The best forcing th Dakota. Hail (1.00 in) Source: Trained Spotter Hail (1.50 in)	
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Scattered thunderstorms which developmentral North Dakota later in the evening was confined along a surface boundary Numerous severe thunderstorm warning MOUNTRAIL COUNTY 6.2 SW PARSMOUNTRAIL COUNTY 6.4 ESE NEW WARD COUNTY 0.5 W RYDER [47.92]	07/03/10 04:02 CST ped earlier over eastern Montana eving of Friday, July 2nd and through the product of which stretched northeast from east ags were issued, along with numerous HALL ARPT [47.88, -102.24] 07/05/10 13:58 CST 07/05/10 14:01 CST TOWN [47.95, -102.35] 07/05/10 14:15 CST 07/05/10 14:25 CST	e early morning h stern Montana ac us reports of largo	oed northeast into nours of Saturday, ross northern Northeast into nours of Saturday, ross nours of Sa	Source: Trained Spotter northwest and north July 3rd. The best forcing th Dakota. Hail (1.00 in) Source: Trained Spotter Hail (1.50 in) Source: Broadcast Media Hail (1.75 in)	
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Scattered thunderstorms which developmentral North Dakota later in the evening was confined along a surface boundary Numerous severe thunderstorm warning MOUNTRAIL COUNTY 6.2 SW PARSH MOUNTRAIL COUNTY 6.4 ESE NEW WARD COUNTY 0.5 W RYDER [47.92] Large hail up to the size of golf balls brok MCHENRY COUNTY 0.7 S KARLSRU	07/03/10 04:02 CST ped earlier over eastern Montana eving of Friday, July 2nd and through the which stretched northeast from easings were issued, along with numerous HALL ARPT [47.88, -102.24] 07/05/10 13:58 CST 07/05/10 14:01 CST TOWN [47.95, -102.35] 07/05/10 14:15 CST 07/05/10 14:25 CST 2, -101.68] 07/05/10 14:58 CST we windows and damaged crops in and the [48.09, -100.62] 07/05/10 16:18 CST 07/05/10 16:24 CST	e early morning h stern Montana ac us reports of largo	oed northeast into nours of Saturday, ross northern North hail.	Source: Trained Spotter northwest and north July 3rd. The best forcing th Dakota. Hail (1.00 in) Source: Trained Spotter Hail (1.50 in) Source: Broadcast Media Hail (1.75 in) Source: Newspaper	
Scattered thunderstorms which developmental North Dakota later in the evening was confined along a surface boundary Numerous severe thunderstorm warning MOUNTRAIL COUNTY 6.2 SW PARSH MOUNTRAIL COUNTY 6.4 ESE NEW WARD COUNTY 0.5 W RYDER [47.92] Large hail up to the size of golf balls brok MCHENRY COUNTY 0.7 S KARLSRU	07/03/10 04:02 CST ped earlier over eastern Montana eving of Friday, July 2nd and through the which stretched northeast from easings were issued, along with numerous HALL ARPT [47.88, -102.24] 07/05/10 13:58 CST 07/05/10 14:01 CST TOWN [47.95, -102.35] 07/05/10 14:15 CST 07/05/10 14:25 CST 2, -101.68] 07/05/10 14:58 CST we windows and damaged crops in and the [48.09, -100.62] 07/05/10 16:18 CST 07/05/10 16:24 CST	e early morning h stern Montana ac us reports of largo	oed northeast into nours of Saturday, ross northern North hail.	Source: Trained Spotter northwest and north July 3rd. The best forcing th Dakota. Hail (1.00 in) Source: Trained Spotter Hail (1.50 in) Source: Broadcast Media Hail (1.75 in) Source: Newspaper	

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Injuries Crop Dmg
07/10/10 17:27 MST 0 Source: Trained Spotter UNN COUNTY 0.5 W HALLIDAY [47.35, -102.34] 07/10/10 17:42 MST 0 Hail (0.88 in) 07/10/10 17:47 MST 0 Source: COOP Observer DEFICER COUNTY 0.7 N GOLDEN VLY [47.29, -102.07] 07/10/10 17:50 MST 0 Hail (0.88 in) 07/10/10 17:50 MST 0 Source: Public 07/10/10 17:53 MST 0 Hail (1.00 in) 07/10/10 17:56 MST 0 Source: Public DEFICER COUNTY 0.7 N BEULAH [47.26, -101.78] 07/10/10 18:07 MST 0 Hail (0.88 in) 07/10/10 18:12 MST 0 Source: Trained Spotter DEFICER COUNTY 0.8 NW UNDERWOOD [47.46, -101.14] 07/10/10 21:16 CST 0 Hail (0.88 in)
UNN COUNTY 0.5 W HALLIDAY [47.35, -102.34] 07/10/10 17:42 MST 0 Source: COOP Observer DERCER COUNTY 0.7 N GOLDEN VLY [47.29, -102.07] 07/10/10 17:45 MST 0 Hail (0.88 in) 07/10/10 17:50 MST 0 Source: Public DERCER COUNTY 0.7 N ZAP [47.29, -101.92] 07/10/10 17:53 MST 0 Hail (1.00 in) 07/10/10 17:56 MST 0 Source: Public DERCER COUNTY 0.7 S BEULAH [47.26, -101.78] 07/10/10 18:07 MST 0 Hail (0.88 in) 07/10/10 18:12 MST 0 Source: Trained Spotter DERCER COUNTY 0.8 NW UNDERWOOD [47.46, -101.14] 07/10/10 21:16 CST 0 Hail (0.88 in)
07/10/10 17:42 MST 0 Hail (0.88 in) 07/10/10 17:47 MST 0 Source: COOP Observer DERCER COUNTY 0.7 N GOLDEN VLY [47.29, -102.07] 07/10/10 17:45 MST 0 Hail (0.88 in) 07/10/10 17:50 MST 0 Source: Public 07/10/10 17:53 MST 0 Hail (1.00 in) 07/10/10 17:56 MST 0 Source: Public 07/10/10 17:56 MST 0 Hail (0.88 in) 07/10/10 17:56 MST 0 Source: Public
07/10/10 17:47 MST 0 Source: COOP Observer ERCER COUNTY 0.7 N GOLDEN VLY [47.29, -102.07] 07/10/10 17:45 MST 0 Hail (0.88 in) 07/10/10 17:50 MST 0 Source: Public ERCER COUNTY 0.7 N ZAP [47.29, -101.92] 07/10/10 17:53 MST 0 Hail (1.00 in) 07/10/10 17:56 MST 0 Source: Public ERCER COUNTY 0.7 S BEULAH [47.26, -101.78] 07/10/10 18:07 MST 0 Hail (0.88 in) 07/10/10 18:12 MST 0 Source: Trained Spotter CLEAN COUNTY 0.8 NW UNDERWOOD [47.46, -101.14] 07/10/10 21:16 CST 0 Hail (0.88 in)
ERCER COUNTY 0.7 N GOLDEN VLY [47.29, -102.07]
07/10/10 17:45 MST 0 Hail (0.88 in) 07/10/10 17:50 MST 0 Source: Public ERCER COUNTY 0.7 N ZAP [47.29, -101.92] 07/10/10 17:53 MST 0 Hail (1.00 in) 07/10/10 17:56 MST 0 Source: Public ERCER COUNTY 0.7 S BEULAH [47.26, -101.78] 07/10/10 18:07 MST 0 Hail (0.88 in) 07/10/10 18:12 MST 0 Source: Trained Spotter
07/10/10 17:45 MST 0 Hail (0.88 in) 07/10/10 17:50 MST 0 Source: Public ERCER COUNTY 0.7 N ZAP [47.29, -101.92] 07/10/10 17:53 MST 0 Hail (1.00 in) 07/10/10 17:56 MST 0 Source: Public ERCER COUNTY 0.7 S BEULAH [47.26, -101.78] 07/10/10 18:07 MST 0 Hail (0.88 in) 07/10/10 18:12 MST 0 Source: Trained Spotter
ERCER COUNTY 0.7 N ZAP [47.29, -101.92] 07/10/10 17:53 MST 0 Hail (1.00 in) 07/10/10 17:56 MST 0 Source: Public
07/10/10 17:53 MST 0 Hail (1.00 in) 07/10/10 17:56 MST 0 Source: Public IERCER COUNTY 0.7 S BEULAH [47.26, -101.78] 07/10/10 18:07 MST 0 Hail (0.88 in) 07/10/10 18:12 MST 0 Source: Trained Spotter
07/10/10 17:53 MST 0 Hail (1.00 in) 07/10/10 17:56 MST 0 Source: Public DEFICIENCE COUNTY 0.7 S BEULAH [47.26, -101.78] 07/10/10 18:07 MST 0 Hail (0.88 in) 07/10/10 18:12 MST 0 Source: Trained Spotter DICLEAN COUNTY 0.8 NW UNDERWOOD [47.46, -101.14] 07/10/10 21:16 CST 0 Hail (0.88 in)
0 Source: Public IERCER COUNTY 0.7 S BEULAH [47.26, -101.78]
NERCER COUNTY 0.7 S BEULAH [47.26, -101.78]
0 Hail (0.88 in) 07/10/10 18:07 MST 0 Source: Trained Spotter CLEAN COUNTY 0.8 NW UNDERWOOD [47.46, -101.14] 07/10/10 21:16 CST 0 Hail (0.88 in)
0 Hail (0.88 in) 07/10/10 18:07 MST 0 Source: Trained Spotter CLEAN COUNTY 0.8 NW UNDERWOOD [47.46, -101.14] 07/10/10 21:16 CST 0 Hail (0.88 in)
CLEAN COUNTY 0.8 NW UNDERWOOD [47.46, -101.14] 07/10/10 21:16 CST 0 Hail (0.88 in)
07/10/10 21:16 CST 0 Hail (0.88 in)
07/10/10 21:16 CST 0 Hail (0.88 in)
07/10/10 21:25 CST 0 Source: Law Enforcement
07/10/10 21.23 CS1 0 Goulde. Law Emoldement
URLEIGH COUNTY 7.8 NE WILTON [47.26, -100.70]
07/10/10 21:46 CST 0 Hail (1.00 in)
07/10/10 22:06 CST 0 Source: Trained Spotter
toyonal reports of large hall were received
Several reports of large hail were received. MOUNTRAIL COUNTY 2.8 N MANITOU [48.37, -102.64], 2.7 NNE MANITOU [48.37, -102.61]
IOUNTRAIL COUNTY 2.8 N MANITOU [48.37, -102.64], 2.7 NNE MANITOU [48.37, -102.61]
10UNTRAIL COUNTY 2.8 N MANITOU [48.37, -102.64], 2.7 NNE MANITOU [48.37, -102.61] 07/12/10 19:16 CST 0 Tornado (EF0, L: 1.43 mi , W: 30 yd) 07/12/10 19:20 CST 0 Source: Trained Spotter
TOUNTRAIL COUNTY 2.8 N MANITOU [48.37, -102.64], 2.7 NNE MANITOU [48.37, -102.61] 07/12/10 19:16 CST 0 Tornado (EF0, L: 1.43 mi , W: 30 yd) 07/12/10 19:20 CST 0 Source: Trained Spotter this tornado touched down in rural Mountrail County. It impacted no structures and so there were no reports of damage. It was rated EF0.
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MOUNTRAIL COUNTY 2.8 N MANITOU [48.37, -102.64], 2.7 NNE MANITOU [48.37, -102.61] 07/12/10 19:16 CST 0 Tornado (EF0, L: 1.43 mi , W: 30 yd) 07/12/10 19:20 CST 0 Source: Trained Spotter This tornado touched down in rural Mountrail County. It impacted no structures and so there were no reports of damage. It was rated EF0.
MOUNTRAIL COUNTY 2.8 N MANITOU [48.37, -102.64], 2.7 NNE MANITOU [48.37, -102.61] 07/12/10 19:16 CST 0 Tornado (EF0, L: 1.43 mi , W: 30 yd) 07/12/10 19:20 CST 0 Source: Trained Spotter This tornado touched down in rural Mountrail County. It impacted no structures and so there were no reports of damage. It was rated EF0. MOUNTRAIL COUNTY 1.1 NW ROSS [48.33, -102.55] 07/12/10 19:30 CST 0 Funnel Cloud 07/12/10 19:32 CST 0 Source: Trained Spotter
MOUNTRAIL COUNTY 2.8 N MANITOU [48.37, -102.64], 2.7 NNE MANITOU [48.37, -102.61] 07/12/10 19:16 CST 0 Tornado (EF0, L: 1.43 mi , W: 30 yd) 07/12/10 19:20 CST 0 Source: Trained Spotter This tornado touched down in rural Mountrail County. It impacted no structures and so there were no reports of damage. It was rated EF0. MOUNTRAIL COUNTY 1.1 NW ROSS [48.33, -102.55] 07/12/10 19:30 CST 0 Funnel Cloud 07/12/10 19:32 CST 0 Source: Trained Spotter This funnel cloud lasted for two minutes, and did not reach the surface.
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IOUNTRAIL COUNTY 2.8 N MANITOU [48.37, -102.64], 2.7 NNE MANITOU [48.37, -102.61] 07/12/10 19:16 CST 0 Tornado (EF0, L: 1.43 mi , W: 30 yd) 07/12/10 19:20 CST 0 Source: Trained Spotter his tornado touched down in rural Mountrail County. It impacted no structures and so there were no reports of damage. It was rated EF0. IOUNTRAIL COUNTY 1.1 NW ROSS [48.33, -102.55] 07/12/10 19:30 CST 0 Funnel Cloud 07/12/10 19:32 CST 0 Source: Trained Spotter TARK COUNTY 0.5 W DICKINSON [46.88, -102.79] 07/12/10 19:45 MST 0 Hail (1.00 in) 07/12/10 20:00 MST 0 Source: Law Enforcement
MOUNTRAIL COUNTY 2.8 N MANITOU [48.37, -102.64], 2.7 NNE MANITOU [48.37, -102.61] 07/12/10 19:16 CST 0 Tornado (EF0, L: 1.43 mi , W: 30 yd) 07/12/10 19:20 CST 0 Source: Trained Spotter This tornado touched down in rural Mountrail County. It impacted no structures and so there were no reports of damage. It was rated EF0. MOUNTRAIL COUNTY 1.1 NW ROSS [48.33, -102.55] 07/12/10 19:30 CST 0 Funnel Cloud 07/12/10 19:32 CST 0 Source: Trained Spotter This funnel cloud lasted for two minutes, and did not reach the surface. STARK COUNTY 0.5 W DICKINSON [46.88, -102.79] 07/12/10 20:00 MST 0 Source: Law Enforcement Rotating wall clouds were also observed over Dickinson. There were no confirmed reports of funnel clouds.
MOUNTRAIL COUNTY 2.8 N MANITOU [48.37, -102.64], 2.7 NNE MANITOU [48.37, -102.61] 07/12/10 19:16 CST 0 Tornado (EF0, L: 1.43 mi , W: 30 yd) 07/12/10 19:20 CST 0 Source: Trained Spotter This tornado touched down in rural Mountrail County. It impacted no structures and so there were no reports of damage. It was rated EF0. MOUNTRAIL COUNTY 1.1 NW ROSS [48.33, -102.55] 07/12/10 19:30 CST 0 Funnel Cloud 07/12/10 19:32 CST 0 Source: Trained Spotter This funnel cloud lasted for two minutes, and did not reach the surface. STARK COUNTY 0.5 W DICKINSON [46.88, -102.79] 07/12/10 20:00 MST 0 Source: Law Enforcement Rotating wall clouds were also observed over Dickinson. There were no confirmed reports of funnel clouds.
MOUNTRAIL COUNTY 2.8 N MANITOU [48.37, -102.64], 2.7 NNE MANITOU [48.37, -102.61] 07/12/10 19:16 CST 0 Tornado (EFO, L: 1.43 mi , W: 30 yd) 07/12/10 19:20 CST 0 Source: Trained Spotter This tornado touched down in rural Mountrail County. It impacted no structures and so there were no reports of damage. It was rated EFO. MOUNTRAIL COUNTY 1.1 NW ROSS [48.33, -102.55] 07/12/10 19:30 CST 0 Funnel Cloud 07/12/10 19:32 CST 0 Source: Trained Spotter This funnel cloud lasted for two minutes, and did not reach the surface. MOUNTRAIL COUNTY 0.5 W DICKINSON [46.88, -102.79] 07/12/10 19:45 MST 0 Hail (1.00 in) 07/12/10 20:00 MST 0 Source: Law Enforcement Rotating wall clouds were also observed over Dickinson. There were no confirmed reports of funnel clouds.
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MANITOU [48.37, -102.64], 2.7 NNE MANITOU [48.37, -102.61] 07/12/10 19:16 CST

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/12/10 20:23 CST		0	Hail (2.00 in)
	07/12/10 20:32 CST		0	Source: Trained Spotter
BOWMAN COUNTY 2.0 NE BUFFALO SPGS [4	1 6.19, -103.20]			
	07/12/10 22:15 MST		0	Hail (0.88 in)
	07/12/10 22:19 MST		0	Source: Trained Spotter
WILLIAMS COUNTY 0.5 W WILLISTON [48.15,	-103.63]			
	07/12/10 23:36 CST		0	Thunderstorm Wind (MG 55 kt)
	07/12/10 23:44 CST		0	Source: Official NWS Observations
WILLIAMS COUNTY 4.3 NNE (ISN)SLOULIN F	LD WIL [48.24, -103.63]			
	07/12/10 23:51 CST		0	Hail (0.88 in)
	07/12/10 23:53 CST		0	Source: Public
WILLIAMS COUNTY 9.4 SE ALAMO [48.47, -10	03.35]			
	07/13/10 01:10 CST		2K	Thunderstorm Wind (EG 56 kt)
	07/13/10 01:20 CST		0	Source: Trained Spotter

The strong thunderstorm winds resulted in a quonset door blown in.

In the mid afternoon hours of Monday, July 12th, Severe Thunderstorm Watch number 461 was issued for far western North Dakota. This was in anticipation of thunderstorms developing ahead of a potent short wave trough advecting northeast across the central Rockies and into the Northern High Plains region. Ahead of this feature, strong moisture advection combined with steep lapse rates and strengthening vertical shear parameters to create a favorable atmosphere for organized storms.

Severe Thunderstorm Watch number 463 was issued later Monday evening to include all of west and portions of central North Dakota, as ongoing severe thunderstorms over western North Dakota were expected to continue and advect to the east along and ahead of a frontal boundary stretched across the western Dakotas.

Several severe thunderstorm and tornado warnings were issued. Several reports of large hail, two reports of severe thunderstorm winds, and one confirmed tornado occurred during this episode.

KIDDER COUNTY 15.1 SSE STEELE [46.65, -99.77]		
07/13/10 13:10 CST	0	Hail (0.75 in)
07/13/10 13:15 CST	0	Source: Trained Spotter
KIDDER COUNTY 13.8 S STEELE [46.65, -99.92]		
07/13/10 13:20 CST	0	Heavy Rain
07/13/10 13:20 CST	0	Source: Public
The public reported 2.20 inches of rain in less than one hour.		
KIDDER COUNTY 10.4 S CRYSTAL SPGS [46.73, -99.46]		
07/13/10 13:30 CST	0	Heavy Rain
07/13/10 13:30 CST	0	Source: COOP Observer
Rainfall of 2.62 inches fell in 45 minutes.		
KIDDER COUNTY 10.4 S CRYSTAL SPGS [46.73, -99.46]		
07/13/10 13:30 CST	0	Hail (0.88 in)
07/13/10 14:00 CST	0	Source: Trained Spotter
KIDDER COUNTY 10.4 S CRYSTAL SPGS [46.73, -99.46]		
07/13/10 13:30 CST	0	Thunderstorm Wind (EG 61 kt)
07/13/10 14:00 CST	0	Source: COOP Observer
A few barns near Napoleon were reported to sustain damage from the strong thunderst	orm winds. Damage am	nounts were not available.

STUTSMAN COUNTY --- 11.4 SSE CLEVELAND [46.73, -99.02]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/13/10 13:45 CST		0	Heavy Rain
	07/13/10 13:45 CST		0	Source: Trained Spotter
Rainfall of 1.75 inches fell in 45 minutes.				
STUTSMAN COUNTY (JMS)JAMESTOW				
	07/13/10 14:55 CST		5K	Lightning
	07/13/10 14:55 CST		0	Source: Newspaper
ightning was determined to be the cause of	f a minor fire in the attic of a home.			
STUTSMAN COUNTY (JMS)JAMESTOW	/N MUNI [46.93, -98.68], 2.9 NW JA	MESTOWN [46.93	3, -98.75], 3.3 SW J	JAMESTOWN [46.87, -98.76], 0.4 ESE
STATE HOSPITAL [46.88, -98.66]	07/13/10 15:00 CST		15K	Flash Flood (due to Heavy Rain)
	07/13/10 17:00 CST		0	Source: Newspaper
Street flooding occurred in parts of Jamestovas minor.	wn. Water was deep enough to forc	ce street closures.	In some areas run	ning water erroded soil. The damage
STUTSMAN COUNTY 2.8 N MONTPELIE			2017	Thursdaystown World (FO 04 LD)
	07/13/10 15:00 CST 07/13/10 15:20 CST		30K 60K	Thunderstorm Wind (EG 61 kt) Source: Trained Spotter
	07/13/10 15.20 631		UUIN	Source. Hameu Spottel
The strong straight line thunderstorm winds	resulted in a tree uprooted, a grain	bin tipper over, a	small wooden build	ding destroyed, and crop damage.
STUTSMAN COUNTY 0.5 W MONTPELIE				Thursday May 1 (FC 5011)
	07/13/10 15:03 CST 07/13/10 15:21 CST		0	Thunderstorm Wind (EG 52 kt) Source: COOP Observer
No reports of damage accompanied the stro				
STUTSMAN COUNTY 0.8 NW JAMESTO	WN [46.91, -98.71] 07/13/10 15:10 CST		0	Heavy Rain
	07/13/10 15:10 CST		0	Source: Public
	Lover the could are next of law.			
An estimated report of two inches of rain fell	over the southern part of Jamesto			
Tornado Watch number 467 was issued in during the afternoon hours of Tuesday, Ju moving surface front and an associated stone report of large hail, three reports of st	anticipation of rapid thunderstorn uly 13th. Thunderstorms were exp trong upper level trough lifting thr trong thunderstorm winds, and se	pected to initiate a	and strengthen aho n High Plains regi	ead of an eastward on.
Fornado Watch number 467 was issued in during the afternoon hours of Tuesday, Ju moving surface front and an associated st One report of large hail, three reports of st also resulted in flooding in the city of Jam	anticipation of rapid thunderstorn uly 13th. Thunderstorms were exp trong upper level trough lifting thr trong thunderstorm winds, and se estown.	pected to initiate a	and strengthen ah n High Plains regi neavy rain were red	ead of an eastward on. ceived. The heavy rain
An estimated report of two inches of rain fell Tornado Watch number 467 was issued in during the afternoon hours of Tuesday, Ju moving surface front and an associated st One report of large hail, three reports of st also resulted in flooding in the city of Jam HETTINGER COUNTY 5.9 NW BURT [46]	anticipation of rapid thunderstorn uly 13th. Thunderstorms were exp trong upper level trough lifting thr trong thunderstorm winds, and se lestown. .44, -102.22] 07/13/10 21:15 MST	pected to initiate a	and strengthen ah in High Plains regi neavy rain were red 10K	ead of an eastward on. ceived. The heavy rain Hail (1.75 in)
Tornado Watch number 467 was issued in during the afternoon hours of Tuesday, Ju moving surface front and an associated st One report of large hail, three reports of st also resulted in flooding in the city of Jam HETTINGER COUNTY 5.9 NW BURT [46	anticipation of rapid thunderstorn uly 13th. Thunderstorms were exp trong upper level trough lifting thr trong thunderstorm winds, and se testown. 2.44, -102.22] 07/13/10 21:15 MST 07/13/10 21:23 MST	pected to initiate a rough the Norther everal reports of h	and strengthen ahen High Plains regineavy rain were red	ead of an eastward on. ceived. The heavy rain
Tornado Watch number 467 was issued in during the afternoon hours of Tuesday, Ju moving surface front and an associated st One report of large hail, three reports of st also resulted in flooding in the city of Jam HETTINGER COUNTY 5.9 NW BURT [46]	anticipation of rapid thunderstorn uly 13th. Thunderstorms were exp trong upper level trough lifting thr trong thunderstorm winds, and se testown. .44, -102.22] 07/13/10 21:15 MST 07/13/10 21:23 MST The large hail resulted in damage to	pected to initiate a rough the Norther everal reports of h	and strengthen ahen High Plains regineavy rain were received. 10K 0 e.	ead of an eastward on. ceived. The heavy rain Hail (1.75 in) Source: Trained Spotter
Fornado Watch number 467 was issued in during the afternoon hours of Tuesday, Jumoving surface front and an associated state of the company of the city of Jameren of the Jameren of Tuesday o	anticipation of rapid thunderstorm ruly 13th. Thunderstorms were experted trong upper level trough lifting threfore the trong thunderstorm winds, and selections. 1.44, -102.22] 07/13/10 21:15 MST 07/13/10 21:23 MST The large hail resulted in damage to 1.41.95] 07/13/10 21:30 MST	pected to initiate a rough the Norther everal reports of h	and strengthen ahen High Plains regineavy rain were reconstruction 10K 0	ead of an eastward on. ceived. The heavy rain Hail (1.75 in) Source: Trained Spotter Hail (2.50 in)
Fornado Watch number 467 was issued in during the afternoon hours of Tuesday, Jumoving surface front and an associated state of the control o	anticipation of rapid thunderstorn uly 13th. Thunderstorms were exp trong upper level trough lifting thr trong thunderstorm winds, and se testown. .44, -102.22] 07/13/10 21:15 MST 07/13/10 21:23 MST The large hail resulted in damage to	pected to initiate a rough the Norther everal reports of h	and strengthen ahen High Plains regineavy rain were received. 10K 0 e.	ead of an eastward on. ceived. The heavy rain Hail (1.75 in) Source: Trained Spotter
Fornado Watch number 467 was issued in during the afternoon hours of Tuesday, Jumoving surface front and an associated state of the company of the city of Jameren of the city of the city of Jameren of the city of the city of Jameren of the city of	anticipation of rapid thunderstorm uly 13th. Thunderstorms were exp trong upper level trough lifting thr trong thunderstorm winds, and se testown. A44, -102.22] 07/13/10 21:15 MST 07/13/10 21:23 MST The large hail resulted in damage to 07/13/10 21:30 MST 07/13/10 21:41 MST	pected to initiate a rough the Norther everal reports of h	and strengthen ahen High Plains regineavy rain were received. 10K 0 e.	ead of an eastward on. ceived. The heavy rain Hail (1.75 in) Source: Trained Spotter Hail (2.50 in) Source: Trained Spotter
Fornado Watch number 467 was issued in during the afternoon hours of Tuesday, Jumoving surface front and an associated state of the company of the city of Jame report of large hail, three reports of states resulted in flooding in the city of Jame HETTINGER COUNTY 5.9 NW BURT [46] Strong winds accompanied the large hail. The GRANT COUNTY NEW LEIPZIG [46.37, Specific damage estimates from the large hail.	anticipation of rapid thunderstorm ruly 13th. Thunderstorms were experted trong upper level trough lifting threfore the trong thunderstorm winds, and selections. 2.44, -102.22] 07/13/10 21:15 MST 07/13/10 21:23 MST The large hail resulted in damage to 2.101.95] 07/13/10 21:30 MST 07/13/10 21:41 MST ail were not available. This was the	pected to initiate a rough the Norther everal reports of h	and strengthen ahen High Plains regineavy rain were received. 10K 0 e.	ead of an eastward on. ceived. The heavy rain Hail (1.75 in) Source: Trained Spotter Hail (2.50 in) Source: Trained Spotter
Tornado Watch number 467 was issued in during the afternoon hours of Tuesday, Ju moving surface front and an associated st One report of large hail, three reports of st also resulted in flooding in the city of Jam	anticipation of rapid thunderstorm uly 13th. Thunderstorms were exp trong upper level trough lifting thr trong thunderstorm winds, and se testown. 2.44, -102.22] 07/13/10 21:15 MST 07/13/10 21:23 MST The large hail resulted in damage to 07/13/10 21:30 MST 07/13/10 21:41 MST ail were not available. This was the	pected to initiate a rough the Norther everal reports of h	and strengthen ahen High Plains regineavy rain were received. 10K 0 e.	ead of an eastward on. ceived. The heavy rain Hail (1.75 in) Source: Trained Spotter Hail (2.50 in) Source: Trained Spotter

Elgin fire officials who were out spotting saw a funnel cloud just south of Elgin. The funnel did not reach the surface and quickly retreated back into the

storm. The funnel cloud was made visible by lightning.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
GRANT COUNTY ELGIN [46.40, -101.85]				
	07/13/10 21:33 MST		0	Hail (2.00 in)
	07/13/10 21:43 MST		0	Source: Public
Specific damage estimates from the large hail w	vere not available. This was the	e first wave of large	hail in Elgin for thi	s episode.
GRANT COUNTY ELGIN [46.40, -101.85]	07/13/10 21:33 MST		0	Thunderstorm Wind (EG 52 kt)
	07/13/10 21:43 MST		0	Source: Public
Strong thunderstorm winds accompanied the lar	rge hail.			
GRANT COUNTY 0.8 SW RALEIGH [46.36, -	101 311			
31AN1 000111 0.0 3W NALLION [40.30, -	07/13/10 22:00 MST		25K	Hail (1.50 in)
	07/13/10 22:11 MST		50K	Source: Trained Spotter
Strong thunderstorm winds accompanied the lar	rge hail, and resulted in window	vs on the west side	of a house broken	1.
GRANT COUNTY 4.5 ESE BRISBANE [46.33	3, -101.39]			
	07/13/10 22:00 MST		15K	Hail (1.50 in)
	07/13/10 22:10 MST		50K	Source: Public
The large hail resulted in two skylights and one	window broken.			
RANT COUNTY 6.4 SSW RALEIGH [46.28,	=		4514	11 11 (4 50 1)
	07/13/10 22:05 MST 07/13/10 22:15 MST	aint Gertrude.	45K 50K	Hail (1.50 in) Source: Trained Spotter
Γhe large hail resulted in damaged vehicles at tl	07/13/10 22:05 MST 07/13/10 22:15 MST he Prairie Learning Center in S 101.31] 07/13/10 22:08 MST	aint Gertrude.	50K 0	Source: Trained Spotter Hail (1.75 in)
he large hail resulted in damaged vehicles at th	07/13/10 22:05 MST 07/13/10 22:15 MST he Prairie Learning Center in S	aint Gertrude.	50K	Source: Trained Spotter
The large hail resulted in damaged vehicles at the GRANT COUNTY 0.8 SW RALEIGH [46.36, -	07/13/10 22:05 MST 07/13/10 22:15 MST he Prairie Learning Center in S 101.31] 07/13/10 22:08 MST 07/13/10 22:16 MST 2, -102.56]	saint Gertrude.	50K 0	Source: Trained Spotter Hail (1.75 in)
The large hail resulted in damaged vehicles at the GRANT COUNTY 0.8 SW RALEIGH [46.36, -	07/13/10 22:05 MST 07/13/10 22:15 MST he Prairie Learning Center in S 101.31] 07/13/10 22:08 MST 07/13/10 22:16 MST 2, -102.56] 07/13/10 22:08 MST	aint Gertrude.	0 50K 0	Source: Trained Spotter Hail (1.75 in) Source: Emergency Manager Hail (1.00 in)
The large hail resulted in damaged vehicles at the GRANT COUNTY 0.8 SW RALEIGH [46.36, -	07/13/10 22:05 MST 07/13/10 22:15 MST he Prairie Learning Center in S 101.31] 07/13/10 22:08 MST 07/13/10 22:16 MST 2, -102.56]	aint Gertrude.	50K 0 50K	Source: Trained Spotter Hail (1.75 in) Source: Emergency Manager
The large hail resulted in damaged vehicles at the second second resulted in damaged vehicles at the second resulted in damaged vehicles at the second resulted results at the large results at the second results at the se	07/13/10 22:05 MST 07/13/10 22:15 MST he Prairie Learning Center in S 101.31] 07/13/10 22:08 MST 07/13/10 22:16 MST 2, -102.56] 07/13/10 22:08 MST 07/13/10 22:16 MST	aint Gertrude.	0 50K 0	Source: Trained Spotter Hail (1.75 in) Source: Emergency Manager Hail (1.00 in)
The large hail resulted in damaged vehicles at the second second resulted in damaged vehicles at the second resulted in damaged vehicles at the second resulted results at the large results at the second results at the se	07/13/10 22:05 MST 07/13/10 22:15 MST he Prairie Learning Center in S 101.31] 07/13/10 22:08 MST 07/13/10 22:16 MST 2, -102.56] 07/13/10 22:08 MST 07/13/10 22:16 MST	saint Gertrude.	0 50K 0	Source: Trained Spotter Hail (1.75 in) Source: Emergency Manager Hail (1.00 in)
The large hail resulted in damaged vehicles at the second second resulted in damaged vehicles at the second resulted in damaged vehicles at the second resulted results at the large results at the second results at the se	07/13/10 22:05 MST 07/13/10 22:15 MST he Prairie Learning Center in S 101.31] 07/13/10 22:08 MST 07/13/10 22:16 MST 2, -102.56] 07/13/10 22:08 MST 07/13/10 22:16 MST	aint Gertrude.	0 50K 0 50K	Source: Trained Spotter Hail (1.75 in) Source: Emergency Manager Hail (1.00 in) Source: Trained Spotter
The large hail resulted in damaged vehicles at the GRANT COUNTY 0.8 SW RALEIGH [46.36,	07/13/10 22:05 MST 07/13/10 22:15 MST he Prairie Learning Center in S 101.31] 07/13/10 22:08 MST 07/13/10 22:16 MST 2, -102.56] 07/13/10 22:16 MST -103.39] 07/13/10 22:09 MST 07/13/10 22:19 MST 07/13/10 22:19 MST	saint Gertrude.	0 50K 0 0 0	Source: Trained Spotter Hail (1.75 in) Source: Emergency Manager Hail (1.00 in) Source: Trained Spotter Hail (1.50 in) Source: Emergency Manager
The large hail resulted in damaged vehicles at the GRANT COUNTY 0.8 SW RALEIGH [46.36,	07/13/10 22:05 MST 07/13/10 22:15 MST he Prairie Learning Center in S 101.31] 07/13/10 22:08 MST 07/13/10 22:16 MST 2, -102.56] 07/13/10 22:08 MST 07/13/10 22:16 MST -103.39] 07/13/10 22:19 MST 07/13/10 22:19 MST 07/13/10 22:19 MST	saint Gertrude.	0 50K 0 0 0 0 50K	Source: Trained Spotter Hail (1.75 in) Source: Emergency Manager Hail (1.00 in) Source: Trained Spotter Hail (1.50 in) Source: Emergency Manager Thunderstorm Wind (EG 52 kt)
The large hail resulted in damaged vehicles at the GRANT COUNTY 0.8 SW RALEIGH [46.36,	07/13/10 22:05 MST 07/13/10 22:15 MST he Prairie Learning Center in S 101.31] 07/13/10 22:08 MST 07/13/10 22:16 MST 2, -102.56] 07/13/10 22:16 MST -103.39] 07/13/10 22:09 MST 07/13/10 22:19 MST 2, -102.56] 07/13/10 22:14 MST 07/13/10 22:24 MST	saint Gertrude.	0 50K 0 0 0	Source: Trained Spotter Hail (1.75 in) Source: Emergency Manager Hail (1.00 in) Source: Trained Spotter Hail (1.50 in) Source: Emergency Manager
The large hail resulted in damaged vehicles at the GRANT COUNTY 0.8 SW RALEIGH [46.36,	07/13/10 22:05 MST 07/13/10 22:15 MST he Prairie Learning Center in S 101.31] 07/13/10 22:08 MST 07/13/10 22:16 MST 2, -102.56] 07/13/10 22:16 MST -103.39] 07/13/10 22:09 MST 07/13/10 22:19 MST 2, -102.56] 07/13/10 22:14 MST 07/13/10 22:24 MST	saint Gertrude.	0 50K 0 0 0 0 50K	Source: Trained Spotter Hail (1.75 in) Source: Emergency Manager Hail (1.00 in) Source: Trained Spotter Hail (1.50 in) Source: Emergency Manager Thunderstorm Wind (EG 52 kt)
GRANT COUNTY 6.4 SSW RALEIGH [46.28, The large hail resulted in damaged vehicles at the GRANT COUNTY 0.8 SW RALEIGH [46.36, HETTINGER COUNTY 0.5 W REGENT [46.42] BOWMAN COUNTY 0.5 W REGENT [46.42] Large hail accompanied the strong thunderstorm BOWMAN COUNTY 2.0 NE BUFFALO SPGS	07/13/10 22:05 MST 07/13/10 22:15 MST he Prairie Learning Center in S 101.31] 07/13/10 22:08 MST 07/13/10 22:16 MST 2, -102.56] 07/13/10 22:08 MST 07/13/10 22:16 MST -103.39] 07/13/10 22:19 MST 07/13/10 22:19 MST 2, -102.56] 07/13/10 22:14 MST 07/13/10 22:24 MST in winds.	saint Gertrude.	0 50K 0 0 0 0 50K	Hail (1.75 in) Source: Emergency Manager Hail (1.00 in) Source: Trained Spotter Hail (1.50 in) Source: Emergency Manager Thunderstorm Wind (EG 52 kt) Source: Law Enforcement
The large hail resulted in damaged vehicles at the GRANT COUNTY 0.8 SW RALEIGH [46.36,	07/13/10 22:05 MST 07/13/10 22:15 MST he Prairie Learning Center in S 101.31] 07/13/10 22:08 MST 07/13/10 22:16 MST 2, -102.56] 07/13/10 22:16 MST -103.39] 07/13/10 22:19 MST 07/13/10 22:19 MST 2, -102.56] 07/13/10 22:14 MST 07/13/10 22:24 MST In winds.	saint Gertrude.	0 0 50K 0 0 50K 0 0 0	Source: Trained Spotter Hail (1.75 in) Source: Emergency Manager Hail (1.00 in) Source: Trained Spotter Hail (1.50 in) Source: Emergency Manager Thunderstorm Wind (EG 52 kt) Source: Law Enforcement Hail (0.88 in)
The large hail resulted in damaged vehicles at the GRANT COUNTY 0.8 SW RALEIGH [46.36,	07/13/10 22:05 MST 07/13/10 22:15 MST he Prairie Learning Center in S 101.31] 07/13/10 22:08 MST 07/13/10 22:16 MST 2, -102.56] 07/13/10 22:08 MST 07/13/10 22:16 MST -103.39] 07/13/10 22:19 MST 07/13/10 22:19 MST 2, -102.56] 07/13/10 22:14 MST 07/13/10 22:24 MST in winds.	saint Gertrude.	0 50K 0 0 0 0 50K	Hail (1.75 in) Source: Emergency Manager Hail (1.00 in) Source: Trained Spotter Hail (1.50 in) Source: Emergency Manager Thunderstorm Wind (EG 52 kt) Source: Law Enforcement
The large hail resulted in damaged vehicles at the GRANT COUNTY 0.8 SW RALEIGH [46.36,	07/13/10 22:05 MST 07/13/10 22:15 MST 07/13/10 22:15 MST he Prairie Learning Center in S 101.31] 07/13/10 22:08 MST 07/13/10 22:16 MST 2, -102.56] 07/13/10 22:16 MST -103.39] 07/13/10 22:19 MST 07/13/10 22:19 MST 07/13/10 22:14 MST 07/13/10 22:24 MST n winds. 8 [46.19, -103.20] 07/13/10 22:23 MST	saint Gertrude.	0 0 50K 0 0 50K 0 0 0	Source: Trained Spotter Hail (1.75 in) Source: Emergency Manager Hail (1.00 in) Source: Trained Spotter Hail (1.50 in) Source: Emergency Manager Thunderstorm Wind (EG 52 kt) Source: Law Enforcement Hail (0.88 in)
The large hail resulted in damaged vehicles at the BRANT COUNTY 0.8 SW RALEIGH [46.36,	07/13/10 22:05 MST 07/13/10 22:15 MST 07/13/10 22:15 MST he Prairie Learning Center in S 101.31] 07/13/10 22:08 MST 07/13/10 22:16 MST 2, -102.56] 07/13/10 22:16 MST -103.39] 07/13/10 22:19 MST 07/13/10 22:19 MST 07/13/10 22:14 MST 07/13/10 22:24 MST n winds. 8 [46.19, -103.20] 07/13/10 22:23 MST	saint Gertrude.	0 0 50K 0 0 50K 0 0 0	Source: Trained Spotter Hail (1.75 in) Source: Emergency Manager Hail (1.00 in) Source: Trained Spotter Hail (1.50 in) Source: Emergency Manager Thunderstorm Wind (EG 52 kt) Source: Law Enforcement Hail (0.88 in)

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HETTINGER COUNTY --- 0.5 W REGENT [46.42, -102.56]

	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/13/10 22:18 MST 07/13/10 22:27 MST		75K 50K	Hail (1.75 in) Source: Emergency Manager
ity officials in Regent reported minor hail damag	e.			
OWMAN COUNTY 13.1 S RHAME [46.04, -10	3.65]			
	07/13/10 22:20 MST		2K	Hail (1.75 in)
	07/13/10 22:29 MST		0.15M	Source: Emergency Manager
The large hail broke out the windsheild on a truck.				
HETTINGER COUNTY 0.8 SW MOTT [46.37, -1	=			
	07/13/10 22:22 MST		0.75M	Hail (2.75 in)
	07/13/10 22:32 MST		0.50M	Source: Emergency Manager
County officials reported up to baseball size hail ir and broken windows. Roofs were also damaged fi		e received major d	amage. The north	side of homes sustained siding damage
HETTINGER COUNTY BURT [46.37, -102.15]	07/10/10 05 55 555		0.401	11.11.44.05 ()
	07/13/10 22:22 MST		0.40M	Hail (4.25 in)
	07/13/10 22:32 MST		0.50M	Source: Emergency Manager
County officials reported up to softball size hail in and broken windows. Roofs were also damaged for the soft and broken windows.	rom the large hail.	received major da	mage. The north si	de of homes sustained siding damage
GRANT COUNTY 2.8 S RALEIGH [46.33, -101.	07/13/10 22:24 MST		0	Hail (2.75 in)
	07/13/10 22:34 MST		0.25M	Source: Public
Specific damage estimates from the large hail wer			1.50M	Hail (5.00 in)
	07/13/10 22:55 MST	2	0.50M	Source: NWS Storm Survey
A North Dakota state record tying hailstone of five severe damage from the extreme hail. One of the record size five inch diameter hailstone in Mercer	inches in diameter fell at Prase large hail stones crashed to County on August 3, 1969. 5] 07/13/10 22:50 MST	iirie Knights Casin	o and Resort. The nield of a car, injurin	resort, and all vehicles outside, sustained ng the two occupants. This tied the Hail (2.75 in)
severe damage from the extreme hail. One of these record size five inch diameter hailstone in Mercer	inches in diameter fell at Prase large hail stones crashed to County on August 3, 1969.	iirie Knights Casin	o and Resort. The i	resort, and all vehicles outside, sustained ng the two occupants. This tied the
severe damage from the extreme hail. One of these ecord size five inch diameter hailstone in Mercer GRANT COUNTY NEW LEIPZIG [46.37, -101.9] This was the second wave of very large hail to hit	inches in diameter fell at Prase large hail stones crashed to County on August 3, 1969. 5] 07/13/10 22:50 MST 07/13/10 23:00 MST New Leipzig during this epison	iirie Knights Casin hrough the windsh	o and Resort. The nield of a car, injuring 1M 0.50M	resort, and all vehicles outside, sustained ng the two occupants. This tied the Hail (2.75 in) Source: Public
severe damage from the extreme hail. One of these ecord size five inch diameter hailstone in Mercer GRANT COUNTY NEW LEIPZIG [46.37, -101.9] This was the second wave of very large hail to hit siding, and damaged shingles. Vehicles sustained	inches in diameter fell at Prase large hail stones crashed to County on August 3, 1969. 5] 07/13/10 22:50 MST 07/13/10 23:00 MST New Leipzig during this episor heavy damaged as well.	iirie Knights Casin hrough the windsh	o and Resort. The nield of a car, injuring 1M 0.50M	resort, and all vehicles outside, sustained ing the two occupants. This tied the Hail (2.75 in) Source: Public rienced broken windows, damaged
severe damage from the extreme hail. One of the record size five inch diameter hailstone in Mercer	inches in diameter fell at Prase large hail stones crashed to County on August 3, 1969. 5] 07/13/10 22:50 MST 07/13/10 23:00 MST New Leipzig during this epison heavy damaged as well.	iirie Knights Casin hrough the windsh	o and Resort. The nield of a car, injuring 1M 0.50M	resort, and all vehicles outside, sustained ng the two occupants. This tied the Hail (2.75 in) Source: Public
Severe damage from the extreme hail. One of these record size five inch diameter hailstone in Mercer GRANT COUNTY NEW LEIPZIG [46.37, -101.9] This was the second wave of very large hail to hit siding, and damaged shingles. Vehicles sustained HETTINGER COUNTY 0.8 SW MOTT [46.37, -1]	inches in diameter fell at Prase large hail stones crashed to County on August 3, 1969. 5] 07/13/10 22:50 MST 07/13/10 23:00 MST New Leipzig during this episor heavy damaged as well. 02.33] 07/13/10 22:54 MST 07/13/10 23:02 MST	iirie Knights Casin hrough the windsh	o and Resort. The nield of a car, injuring 1M 0.50M ghout the city exper	resort, and all vehicles outside, sustained ng the two occupants. This tied the Hail (2.75 in) Source: Public rienced broken windows, damaged Hail (1.75 in)
severe damage from the extreme hail. One of these record size five inch diameter hailstone in Mercer GRANT COUNTY NEW LEIPZIG [46.37, -101.9] This was the second wave of very large hail to hit siding, and damaged shingles. Vehicles sustained HETTINGER COUNTY 0.8 SW MOTT [46.37, -1] Another round of large hail impacted the city of Months.	inches in diameter fell at Prase large hail stones crashed to County on August 3, 1969. 55] 07/13/10 22:50 MST 07/13/10 23:00 MST New Leipzig during this episoral heavy damaged as well. 02.33] 07/13/10 22:54 MST 07/13/10 23:02 MST	iirie Knights Casin hrough the windsh	o and Resort. The nield of a car, injuring 1M 0.50M ghout the city exper	resort, and all vehicles outside, sustained ng the two occupants. This tied the Hail (2.75 in) Source: Public rienced broken windows, damaged Hail (1.75 in)
severe damage from the extreme hail. One of these record size five inch diameter hailstone in Mercer GRANT COUNTY NEW LEIPZIG [46.37, -101.9] This was the second wave of very large hail to hit siding, and damaged shingles. Vehicles sustained HETTINGER COUNTY 0.8 SW MOTT [46.37, -1] Another round of large hail impacted the city of Months.	inches in diameter fell at Prase large hail stones crashed to County on August 3, 1969. 55] 07/13/10 22:50 MST 07/13/10 23:00 MST New Leipzig during this episoral heavy damaged as well. 02.33] 07/13/10 22:54 MST 07/13/10 23:02 MST	iirie Knights Casin hrough the windsh	o and Resort. The nield of a car, injuring 1M 0.50M ghout the city exper	resort, and all vehicles outside, sustained ng the two occupants. This tied the Hail (2.75 in) Source: Public rienced broken windows, damaged Hail (1.75 in)
severe damage from the extreme hail. One of these record size five inch diameter hailstone in Mercer GRANT COUNTY NEW LEIPZIG [46.37, -101.9] This was the second wave of very large hail to hit siding, and damaged shingles. Vehicles sustained HETTINGER COUNTY 0.8 SW MOTT [46.37, -1] Another round of large hail impacted the city of Months.	inches in diameter fell at Prase large hail stones crashed to County on August 3, 1969. 55] 07/13/10 22:50 MST 07/13/10 23:00 MST New Leipzig during this episoral heavy damaged as well. 02.33] 07/13/10 22:54 MST 07/13/10 23:02 MST ott.	iirie Knights Casin hrough the windsh	o and Resort. The nield of a car, injuring 1M 0.50M ghout the city expersion 0.10M 0.10M	resort, and all vehicles outside, sustained ing the two occupants. This tied the Hail (2.75 in) Source: Public rienced broken windows, damaged Hail (1.75 in) Source: Public
Severe damage from the extreme hail. One of these record size five inch diameter hailstone in Mercer GRANT COUNTY NEW LEIPZIG [46.37, -101.9] This was the second wave of very large hail to hit siding, and damaged shingles. Vehicles sustained HETTINGER COUNTY 0.8 SW MOTT [46.37, -1] Another round of large hail impacted the city of Motor ADAMS COUNTY 7.6 N BUCYRUS [46.18, -10.5]	inches in diameter fell at Prase large hail stones crashed to County on August 3, 1969. 5] 07/13/10 22:50 MST 07/13/10 23:00 MST New Leipzig during this episor heavy damaged as well. 02.33] 07/13/10 22:54 MST 07/13/10 23:02 MST ott. 2.79] 07/13/10 23:00 MST 07/13/10 23:08 MST	iirie Knights Casin hrough the windsh	o and Resort. The nield of a car, injuring 1M 0.50M shout the city expersion 0.10M 0.10M	resort, and all vehicles outside, sustained ng the two occupants. This tied the Hail (2.75 in) Source: Public rienced broken windows, damaged Hail (1.75 in) Source: Public
Severe damage from the extreme hail. One of these record size five inch diameter hailstone in Mercer GRANT COUNTY NEW LEIPZIG [46.37, -101.9] This was the second wave of very large hail to hit siding, and damaged shingles. Vehicles sustained HETTINGER COUNTY 0.8 SW MOTT [46.37, -1] Another round of large hail impacted the city of Motor and Managed Sustained Sustai	inches in diameter fell at Prase large hail stones crashed to County on August 3, 1969. 5] 07/13/10 22:50 MST 07/13/10 23:00 MST New Leipzig during this episor heavy damaged as well. 02.33] 07/13/10 22:54 MST 07/13/10 23:02 MST ott. 2.79] 07/13/10 23:08 MST 07/13/10 23:08 MST	iirie Knights Casin hrough the windsh	o and Resort. The nield of a car, injuring 1M 0.50M shout the city expersion 0.10M 0.10M	resort, and all vehicles outside, sustained ng the two occupants. This tied the Hail (2.75 in) Source: Public rienced broken windows, damaged Hail (1.75 in) Source: Public Hail (0.75 in) Source: Trained Spotter
severe damage from the extreme hail. One of these record size five inch diameter hailstone in Mercer GRANT COUNTY NEW LEIPZIG [46.37, -101.9] This was the second wave of very large hail to hit siding, and damaged shingles. Vehicles sustained HETTINGER COUNTY 0.8 SW MOTT [46.37, -1] Another round of large hail impacted the city of Months.	inches in diameter fell at Prase large hail stones crashed to County on August 3, 1969. 5] 07/13/10 22:50 MST 07/13/10 23:00 MST New Leipzig during this episor heavy damaged as well. 02.33] 07/13/10 22:54 MST 07/13/10 23:02 MST ott. 2.79] 07/13/10 23:00 MST 07/13/10 23:08 MST	iirie Knights Casin hrough the windsh	o and Resort. The nield of a car, injuring 1M 0.50M shout the city expersion 0.10M 0.10M	resort, and all vehicles outside, sustained ng the two occupants. This tied the Hail (2.75 in) Source: Public rienced broken windows, damaged Hail (1.75 in) Source: Public

This was the first of three waves of very large hail to impact the city of Cannon Ball during this episode. Severe damage to vehicles, homes, and crops occurred.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
GRANT COUNTY ELGIN [46.40, -101.85]				
	07/13/10 23:03 MST		2M	Hail (4.25 in)
	07/13/10 23:13 MST		0.75M	Source: Public
This was the second wave of very large hail to hit lamaged shingles. Vehicles sustained heavy dar		nes throughout th	e city experienced	broken windows, damaged siding, and
ADAMS COUNTY 0.5 W HETTINGER [46.00, -	-			
	07/13/10 23:25 MST		0	Hail (1.00 in)
	07/13/10 23:35 MST		0	Source: Trained Spotter
RANT COUNTY ELGIN [46.40, -101.85]				
	07/13/10 23:30 MST		65K	Lightning
	07/13/10 23:30 MST		0	Source: NWS Storm Survey
lightning strike caused a house fire in Elgin. Th riring on all three levels of the home. When arriv range. No injuries or fatalities occurred. The hor	ing on scene, fire officials repor	rted that a metal a	-	
GRANT COUNTY 4.9 S LEITH [46.28, -101.65]				
	07/14/10 00:00 MST		0	Hail (2.00 in)
	07/14/10 00:12 MST		0.35M	Source: Trained Spotter
The large hail resulted in heavy damage to wheat	t and sunflower crops.			
SIOUX COUNTY SOLEN [46.39, -100.80]				
	07/14/10 00:10 MST		0.10M	Hail (4.25 in)
	07/14/10 00:20 MST		0.40M	Source: Public
Damage amounts were estimated based on the e	extreme hail size.			
MMONS COUNTY LINTON [46.27, -100.23]				
	07/14/10 00:15 CST		0.50M	Hail (2.50 in)
	07/14/10 00:25 CST		0.65M	Source: Newspaper
Damage was sustained to area homes and vehic	les. Crop damage was reported	d to be severe ac	ross central Emmo	ns County.
SIOUX COUNTY CANNON BALL [46.39, -100.	•			
	07/14/10 00:21 MST		0.10M	Hail (4.25 in)
	07/14/10 00:30 MST		0.15M	Source: Public
his was the second wave of very large hail to im	pact Cannon Ball during this e	pisode, resulting i	n further damage t	o homes, vehicles, and crops.
IORTON COUNTY 0.7 N FLASHER [46.46, -1	01.23]			
	07/14/10 00:45 CST		0	Hail (1.00 in)
	07/14/10 00:53 CST		0	Source: Trained Spotter
SIOUX COUNTY CANNON BALL [46.39, -100.	-		FOL	Heil (4.75 in)
	07/14/10 01:08 MST		50K	Hail (1.75 in)
	07/14/10 01:15 MST		50K	Source: Public
This was the third wave of large hail to impact the	e city of Cannon Ball during this	s episode.		
STUTSMAN COUNTY 8.7 E STREETER [46.66	6, -99.17], 11.8 E STREETER [4	46.66, -99.10], 0.9	ESE CLEVELAND	D [46.88, -99.10], 1.8 WSW CLEVELAND
46.87, -99.15]	07/14/10 01:10 CST		80K	Flash Flood (due to Heavy Rain)
	07717710 01.10 031		OUIL	riastri 1000 (due to ricavy Ivalli)

Several low lying areas of County Highway 67 from north of Gackle to Interstate 94 showed signs of recent flash flooding. Water was flowing freely over one area, with severe erosion noted at other low lying areas along the highway.

07/14/10 04:00 CST

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Source: NWS Storm Survey

0

MORTON COUNTY 7.1 SW HUFF [46.55, -100.76] 07/14/10 01:15 CST 0.10M The large hail was accompanied by strong thunderstorm winds. EMMONS COUNTY 6.0 SW HAZELTON [46.42, -100.37] 07/14/10 01:30 CST 20K 07/14/10 01:43 CST 50K Broken windows resulted from the large hail. LOGAN COUNTY 0.6 WSW GACKLE [46.63, -99.14] 07/14/10 01:40 CST 25K 07/14/10 01:50 CST 0 The severe thunderstorm winds blew down numerous tree branches, including one tree snapped off on the wes included a flag pole bent over and a television antenna blown off of a roof. LOGAN COUNTY 9.9 N FREDONIA [46.47, -99.14] 07/14/10 01:40 CST 35K 07/14/10 01:40 CST 35K 07/14/10 01:40 CST 0.50K A kill chute weighing about 1500 pounds was blown over. The strong thunderstorm winds also tore shingles off EMMONS COUNTY 0.7 S HAZELTON [46.47, -100.28] 07/14/10 01:43 CST 0 07/14/10 01:45 CST 0 EMMONS COUNTY 3.2 SE NORTONVILLE [46.52, -98.69] 07/14/10 01:55 CST 0 07/14/10 01:55 CST 0 07/14/10 02:10 CST 50K Corn fields across central LaMoure County were flattened by strong thunderstorm winds. Local residents were complete loss. LA MOURE COUNTY 4.6 S NORTONVILLE [46.48, -98.73] 07/14/10 02:10 CST 50K Corn fields across central LaMoure County were flattened by strong thunderstorm winds. Local residents were complete loss. LA MOURE COUNTY 7.0 NE EDGELEY [46.45, -98.61] 07/14/10 02:10 CST 50K Corn fields across central LaMoure County were flattened by strong thunderstorm winds. Local residents were complete loss.	Event Type and Details
### Commons County 6.0 SW HAZELTON [46.42, -100.37]	
EMMONS COUNTY 6.0 SW HAZELTON [46.42, -100.37] 07/14/10 01:30 CST 20K 37/14/10 01:43 CST 50K Broken windows resulted from the large hail. LOGAN COUNTY 0.6 WSW GACKLE [46.63, -99.14] 07/14/10 01:40 CST 25K 07/14/10 01:50 CST 0 07/14/10 01:40 CST 25K 07/14/10 01:50 CST 0 The severe thunderstorm winds blew down numerous tree branches, including one tree snapped off on the west noticed a flag pole bent over and a television antenna blown off of a roof. LOGAN COUNTY 9.9 N FREDONIA [46.47, -99.14] 07/14/10 01:50 CST 07/14/10 01:50 CST 07/14/10 01:50 CST 0 0 A kill chute weighing about 1500 pounds was blown over. The strong thunderstorm winds also tore shingles off 07/14/10 01:52 CST 0 0 EMMONS COUNTY 0.7 S HAZELTON [46.47, -100.28] 07/14/10 01:52 CST 0 0 07/14/10 01:54 CST 0 0 07/14/10 01:55 CST 0 0 07/14/10 02:10 CST 50K Corn fields across central LaMoure County were flattened by strong thunderstorm winds. Local residents were complete loss. LA MOURE COUNTY 4.6 S NORTONVILLE [46.48, -98.73] 07/14/10 02:10 CST 50K Corn fields across central LaMoure County were flattened by strong thunderstorm winds. Local residents were complete loss. LA MOURE COUNTY 7.0 NE EDGELEY [46.45, -98.61] 07/14/10 01:55 CST 0 07/14/10 01:55 CST 0 07/14/10 02:10 CST 50K Corn fields across central LaMoure County were flattened by strong thunderstorm winds. Local residents were complete loss.	Hail (1.50 in)
EMMONS COUNTY 6.0 SW HAZELTON [46.42, -100.37]	Source: Trained Spotter
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07/14/10 01:40 CST	
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07/14/10 02:10 CST 50K Corn fields across central LaMoure County were flattened by strong thunderstorm winds. Local residents were	
Corn fields across central LaMoure County were flattened by strong thunderstorm winds. Local residents were	Thunderstorm Wind (EG 70 kt)
	Source: NWS Storm Survey
	nsure if the corn was a partial or
STUTSMAN COUNTY 0.5 W MONTPELIER [46.70, -98.59]	
07/14/10 02:00 CST 0	Thunderstorm Wind (EG 61 kt)
07/14/10 02:11 CST 0	Source: COOP Observer

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/14/10 02:02 CST		60K	Thunderstorm Wind (EG 78 kt)
	07/14/10 02:13 CST		0	Source: NWS Storm Survey
Intense straight line thunderstorm winds damag flag pole was bent over.	ed outbuildings on a farmstead	just west of Grand	l Rapids. The roof o	on a barn was partially ripped off and a
LA MOURE COUNTY 0.1 SW GRAND RAPII	DS [46.45, -98.37]			
	07/14/10 02:04 CST		0.65M	Thunderstorm Wind (EG 91 kt)
	07/14/10 02:15 CST		50K	Source: NWS Storm Survey
The most severe wind damage observed during tree damage was observed, including numerous consisted of roof damage, damage to pole barn farm fields.	s mature hardwood trees uproof	ted or snapped in l	half. Damage was a	also sustained to buildings, which
The peak estimated wind speed of 105 mph wa sensing instruments on wind towers 10 miles w			•	
EMMONS COUNTY KINTYRE [46.55, -99.95]]			
<u>-</u>	07/14/10 02:05 CST		0	Hail (1.00 in)
	07/14/10 02:12 CST		0	Source: Law Enforcement
LA MOURE COUNTY 1.7 SE GRAND RAPID			EOV	Thunderstorm Wind (FC 79 l/t)
	07/14/10 02:07 CST		50K	Thunderstorm Wind (EG 78 kt)
	07/14/10 02:18 CST		0	Source: NWS Storm Survey
Large field irrigators were tipped over between	Grand Rapids and LaMoure.			
LA MOUDE COUNTY OF NAME A MOUDE	[46 26 00 20]			
LA MOURE COUNTY 0.7 NNW LA MOURE	07/14/10 02:09 CST		0.25M	Thunderstorm Wind (EG 78 kt)
	07/14/10 02:14 CST		0	Source: NWS Storm Survey
Widespread tree damage was observed in the calso had trees uprooted or snapped in half. A po	ole barn west of LaMoure susta			
LOGAN COUNTY 0.7 N NAPOLEON [46.51,	-99.77] 07/14/10 02:09 CST		1.50M	Hail (2.75 in)
				Source: Newspaper
			1101	
The large hail damaged many area homes, can hail was spotty according to insurance adjusters	07/14/10 02:18 CST		1M	Cource. Newspaper
	npers, and vehicles. Damage to	o crops was limited		
LOGAN COUNTY 1.4 S NAPOLEON [46.48,	npers, and vehicles. Damage to s.	o crops was limited	l as despite the larg	ge size of the hail, the aerial coverage of
LOGAN COUNTY 1.4 S NAPOLEON [46.48,	npers, and vehicles. Damage to s. -99.77] 07/14/10 02:10 CST	o crops was limited	l as despite the larç	ge size of the hail, the aerial coverage of Hail (2.75 in)
LOGAN COUNTY 1.4 S NAPOLEON [46.48,	npers, and vehicles. Damage to s.	o crops was limited	l as despite the larg	ge size of the hail, the aerial coverage of
	npers, and vehicles. Damage to s. -99.77] 07/14/10 02:10 CST 07/14/10 02:19 CST	o crops was limited	l as despite the larç	ge size of the hail, the aerial coverage of Hail (2.75 in)
LOGAN COUNTY 1.4 S NAPOLEON [46.48,	npers, and vehicles. Damage to s. -99.77] 07/14/10 02:10 CST 07/14/10 02:19 CST	o crops was limited	45K 0.20M	ge size of the hail, the aerial coverage of Hail (2.75 in) Source: Emergency Manager
	npers, and vehicles. Damage to s. -99.77] 07/14/10 02:10 CST 07/14/10 02:19 CST	o crops was limited	l as despite the larç	ge size of the hail, the aerial coverage of Hail (2.75 in)
	npers, and vehicles. Damage to s. -99.77] 07/14/10 02:10 CST 07/14/10 02:19 CST 51, -99.56] 07/14/10 02:12 CST 07/14/10 02:31 CST	o crops was limited	45K 0.20M	ge size of the hail, the aerial coverage of Hail (2.75 in) Source: Emergency Manager Hail (1.75 in)
LOGAN COUNTY 9.4 NNE BURNSTAD [46.9	npers, and vehicles. Damage to s. -99.77] 07/14/10 02:10 CST 07/14/10 02:19 CST 51, -99.56] 07/14/10 02:12 CST 07/14/10 02:31 CST	o crops was limited	45K 0.20M	ge size of the hail, the aerial coverage of Hail (2.75 in) Source: Emergency Manager Hail (1.75 in)
LOGAN COUNTY 9.4 NNE BURNSTAD [46.9	npers, and vehicles. Damage to s. -99.77] 07/14/10 02:10 CST 07/14/10 02:19 CST 51, -99.56] 07/14/10 02:12 CST 07/14/10 02:31 CST come crop damage.	o crops was limited	45K 0.20M 25K 0.10M	ge size of the hail, the aerial coverage of Hail (2.75 in) Source: Emergency Manager Hail (1.75 in) Source: Mesonet
LOGAN COUNTY 9.4 NNE BURNSTAD [46.4 The large hail resulted in vehicle damage and s	npers, and vehicles. Damage to s. -99.77] 07/14/10 02:10 CST 07/14/10 02:19 CST 51, -99.56] 07/14/10 02:12 CST 07/14/10 02:31 CST come crop damage. -98.18] 07/14/10 02:15 CST	o crops was limited	45K 0.20M 25K 0.10M	ge size of the hail, the aerial coverage of Hail (2.75 in) Source: Emergency Manager Hail (1.75 in) Source: Mesonet Thunderstorm Wind (EG 61 kt)
LOGAN COUNTY 9.4 NNE BURNSTAD [46.9] The large hail resulted in vehicle damage and s LA MOURE COUNTY 7.2 E MARION [46.61,	npers, and vehicles. Damage to s. -99.77] 07/14/10 02:10 CST 07/14/10 02:19 CST 51, -99.56] 07/14/10 02:12 CST 07/14/10 02:31 CST come crop damage. -98.18] 07/14/10 02:21 CST		45K 0.20M 25K 0.10M	ge size of the hail, the aerial coverage of Hail (2.75 in) Source: Emergency Manager Hail (1.75 in) Source: Mesonet
LOGAN COUNTY 9.4 NNE BURNSTAD [46.4 The large hail resulted in vehicle damage and s	npers, and vehicles. Damage to s. -99.77] 07/14/10 02:10 CST 07/14/10 02:19 CST 51, -99.56] 07/14/10 02:12 CST 07/14/10 02:31 CST come crop damage. -98.18] 07/14/10 02:21 CST		45K 0.20M 25K 0.10M	ge size of the hail, the aerial coverage of Hail (2.75 in) Source: Emergency Manager Hail (1.75 in) Source: Mesonet Thunderstorm Wind (EG 61 kt)
LOGAN COUNTY 9.4 NNE BURNSTAD [46.9] The large hail resulted in vehicle damage and s LA MOURE COUNTY 7.2 E MARION [46.61,	npers, and vehicles. Damage to s. -99.77] 07/14/10 02:10 CST 07/14/10 02:19 CST 51, -99.56] 07/14/10 02:12 CST 07/14/10 02:31 CST come crop damage. -98.18] 07/14/10 02:15 CST 07/14/10 02:21 CST		45K 0.20M 25K 0.10M	ge size of the hail, the aerial coverage of Hail (2.75 in) Source: Emergency Manager Hail (1.75 in) Source: Mesonet Thunderstorm Wind (EG 61 kt)
LOGAN COUNTY 9.4 NNE BURNSTAD [46.9] The large hail resulted in vehicle damage and s LA MOURE COUNTY 7.2 E MARION [46.61,	npers, and vehicles. Damage to s. -99.77] 07/14/10 02:10 CST 07/14/10 02:19 CST 51, -99.56] 07/14/10 02:12 CST 07/14/10 02:31 CST come crop damage. -98.18] 07/14/10 02:15 CST 07/14/10 02:21 CST		45K 0.20M 25K 0.10M	ge size of the hail, the aerial coverage of Hail (2.75 in) Source: Emergency Manager Hail (1.75 in) Source: Mesonet Thunderstorm Wind (EG 61 kt)

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
LOGAN COUNTY 5.6 NNE BURNSTAD [46.45,	99.56]			
	07/14/10 03:00 CST		0	Thunderstorm Wind (EG 52 kt)
	07/14/10 03:06 CST		0	Source: Public

Damage was not reported with this severe thunderstorm wind gust.

Large scale forcing associated with a dynamic upper level trough coincided with very strong deep layer shear and very steep mid level lapse rates to trigger rapid thunderstorm development and intensification across southwest and south central North Dakota.

Thunderstorms began in the late evening hours of Tuesday, July 13th, and lasted into the early morning hours of Wednesday, July 14th.

Severe Thunderstorm Watch number 469 was initially issued late Tuesday evening for portions of southwest and most of south central North Dakota through the early morning hours of Wednesday, with rapid thunderstorm development across the southwest already underway. Tornado Watch number 470 was issued early Wednesday morning for far south central North Dakota as intense supercellular thunderstorms with very large hail continued to develop and move east across far southwest and south central parts of the state. The intense thunderstorms eventually transitioned from very large hail producers to damaging wind producers as they moved east of the Missouri River and towards and into the James River Valley region.

Multiple severe thunderstorm and tornado warnings were issued. Numerous reports of large hail, including a record tying hailstone, and several reports of damaging thunderstorm winds were received during this episode.

Damage from the very large hail was extensive and extreme. Hardest hit were Hettinger, Grant, Sioux, and Emmons Counties, where baseball to softball size hail fell. Some homes had hailstones crash completely through the roof. The large hail also killed several farm animals, and injured other livestock and pets. A North Dakota record tying hailstone, five inches in diameter, fell at Prairie Knights Resort located in eastern Sioux County. In addition, some areas in these counties experienced more than one wave of large hail. Later Wednesday morning, straight line winds up to 105 mph resulted in extensive damage over portions of Logan and LaMoure Counties.

DICKEY COUNTY 0.5 W FULLERTON [46.17, -98.43]			
07/17/1	10 14:49 CST	0	Hail (1.50 in)
07/17/1	10 14:58 CST	0	Source: Emergency Manager
DICKEY COUNTY 3.0 ESE CLEMENT [46.14, -98.19]			
07/17/1	10 15:08 CST	0	Hail (1.75 in)
07/17/1	10 15:17 CST	0	Source: Law Enforcement
DICKEY COUNTY 3.0 ESE CLEMENT [46.14, -98.19]			
07/17/	10 15:15 CST	0	Hail (2.75 in)
07/17/1	10 15:22 CST	0	Source: Law Enforcement
DICKEY COUNTY 0.8 NW OAKES [46.14, -98.09]			
07/17/	10 15:21 CST	0	Hail (1.75 in)
07/17/1	10 15:28 CST	0	Source: Trained Spotter
DICKEY COUNTY 0.8 NE GUELPH [46.03, -98.22]			
	10 15:47 CST	0	Hail (1.00 in)
07/17/	10 15:55 CST	0	Source: Trained Spotter

A shortwave trough moving across northern North Dakota forced a baroclinic zone southeastward through the Dakotas during the afternoon hours of Saturday, July 17th. This caused the erosion of a capping inversion in place across southeastern North Dakota, leading to the development and intensification of thunderstorms in the James River Valley region south of Jamestown.

Several reports of large hail were received over Dickey County.

DIVIDE COUNTY 0.8 NNW NOON	AN [48.89, -103.01]			
	07/20/10 14:12 CST	0	Hail (1.00 in)	
	07/20/10 14:21 CST	0	Source: Trained Spotter	
DIVIDE COUNTY 1.5 SSW NOON	AN [48.86, -103.01]			
	07/20/10 14:15 CST	0	Funnel Cloud	

This funnel cloud was short lived and never reached the surface.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
PIERCE COUNTY 3.7 E WOLFORD [48.50, -	=		0	Funnal Claud
	07/20/10 15:01 CST 07/20/10 15:03 CST		0	Funnel Cloud Source: Broadcast Media
A brief funnel cloud formed.	07/20/10 15.03 CS1		U	Source. Broaucast Meula
A brief futilier cloud formed.				
WARD COUNTY 3.5 S MAKOTI [47.92, -101	. 79] 07/20/10 16:24 CST		0	Hail (1.00 in)
	07/20/10 16:31 CST		0	Source: Public
DLIVER COUNTY 6.9 S HANNOVER [47.02,	=			
	07/20/10 16:29 CST		0	Hail (1.00 in)
	07/20/10 16:36 CST		0	Source: Law Enforcement
MCLEAN COUNTY MAX [47.82, -101.30]				
	07/20/10 17:01 CST		0	Hail (0.75 in)
	07/20/10 17:11 CST		0	Source: Trained Spotter
BURLEIGH COUNTY 0.8 NW BISMARCK [4	· •			11.77.4.00
	07/20/10 17:10 CST		0	Hail (1.00 in)
	07/20/10 17:18 CST		0	Source: Public
BURLEIGH COUNTY 2.8 N BISMARCK [46.	_ · =			
	07/20/10 17:12 CST		0	Hail (0.75 in)
	07/20/10 17:17 CST		0	Source: Law Enforcement
MCHENRY COUNTY 6.9 S DENBIGH [48.22	, -100.59]			
	07/20/10 17:33 CST		0	Funnel Cloud
	07/20/10 17:35 CST		0	Source: Fire Department/Rescue
A funnel cloud briefly formed, then dissipated.				
BOTTINEAU COUNTY 0.5 W BOTTINEAU [4	•			11.74.00
	07/20/10 17:45 CST		0	Hail (1.00 in)
	07/20/10 17:55 CST		0	Source: Public
WELLS COUNTY 5.6 S BOWDON [47.39, -9	-			
	07/20/10 21:20 CST		0	Hail (1.75 in)
	07/20/10 21:30 CST		0.10M	Source: Emergency Manager
The large hail resulted in crop damage.				
STUTSMAN COUNTY 0.7 S WOODWORTH				
	07/20/10 22:00 CST		0	Hail (1.50 in)
	07/20/10 22:07 CST		0	Source: Public
Thunderstorms developing ahead of an uppe northwest and portions of central North Dako Watch number 503 was issued as a result.	-		· ·	
Numerous severe thunderstorm warnings we during this episode.	re issued. Several reports of l	arge hail and thre	e reports of funnel	clouds were received
BOWMAN COUNTY 7.0 SW BOWMAN ARP	= =		0	Hoil (4.50 in)
	07/23/10 09:45 MST 07/23/10 09:55 MST		0	Hail (1.50 in) Source: Trained Spotter

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/23/10 10:00 MST		0	Thunderstorm Wind (MG 52 kt)
	07/23/10 10:05 MST		0	Source: Department of Highways
OWMAN COUNTY 4.0 SW GASCOY	/NE [46.08, -103.14]			
	07/23/10 10:05 MST		10K	Thunderstorm Wind (EG 61 kt)
	07/23/10 10:10 MST		35K	Source: Department of Highways
he strong thunderstorm winds resulted	in damage to a grain bin and some crop of	lamage.		
OWMAN COUNTY 5.0 S SCRANTO				
	07/23/10 10:05 MST		0	Hail (1.50 in)
	07/23/10 10:10 MST		0	Source: Department of Highways
OWMAN COUNTY 5.0 S SCRANTO	N [46.08, -103.13]			
	07/23/10 10:05 MST		0.15M	Thunderstorm Wind (EG 74 kt)
	07/23/10 10:15 MST		0.10M	Source: Fire Department/Rescue
·	re broken off at ground level. Quarter size eaking with eye witnesses and obtaining of		•	
DAMS COUNTY 3.6 WSW HETTING	- · · · -			
	07/23/10 10:50 MST		0	Hail (0.88 in)
	07/23/10 10:55 MST		0	Source: Public
DAMS COUNTY 16.8 E HAYNES [4	5 97 -102 121			
DAMS COUNTY 10.0 E HATNES (4:	07/23/10 11:25 MST		0	Hail (0.75 in)
	07/23/10 11:34 MST		0	Source: Trained Spotter
	07720/10 11.04 MO1		O	Source. Trained Spotter
DAMS COUNTY 14.1 ENE HAYNES	[46.05, -102.20]			
	07/23/10 11:30 MST		0	Hail (0.75 in)
	07/23/10 11:40 MST		0	Source: Trained Spotter
	uced several reports of large hail and tw e morning and early afternoon hours of	=		n winds over
LOPE COUNTY 11.8 NNW AMIDON	[46.63, -103.44], 9.8 N AMIDON [46.62, -	103.33]	0	Tamada (FFO 1 - F 24 m; M/ 20 ml)
	07/26/10 16:38 MST		0	Tornado (EFO, L: 5.34 mi , W: 30 yd)
	07/26/10 16:50 MST		0	Source: NWS Storm Survey
vas visible from as far away as Beach, N	nd impacted no structures. There was no North Dakota, around 40 miles away. The al time, from different directions. This mad lope County Sheriff.	tornado was ra	ted EF0. The Natio	onal Weather Service received no
DAMS COUNTY 60.6 N REEDER [4			_	
	07/26/10 16:55 MST		0	Thunderstorm Wind (EG 52 kt)
	07/26/10 17:04 MST		0	Source: NWS Storm Survey
he severe thunderstorm winds were ac	companied by large hail.			
ILLINGS COUNTY 12.6 NE FRYBUF	RG [46.99, -103.12]			
	07/26/10 16:55 MST		20K	Hail (1.00 in)
	07/26/10 17:04 MST		0	Source: NWS Storm Survey
he large hail was accompanied by seve	ere thunderstorm winds. This combination	resulted in dan	nage to windows a	nd siding on the west side of a home.
URKE COUNTY 3.7 SSW KINCAID	[48.83, -102.78] 07/26/10 17:10 CST		0	Hail (1.25 in)
	3233 11.10 001		•	(

07/26/10 17:20 CST

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Source: Trained Spotter

	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
BURKE COUNTY 5.5 SE COTEA	AU [48.69, -102.24], 6.3 SE COTEAU [48.68	, -102.23]		T (FF2 0 TF W 05 W
	07/26/10 17:50 CST 07/26/10 17:52 CST		0	Tornado (EF0, L: 0.75 mi , W: 25 yd) Source: NWS Employee
his tornado occurred in the open o	country. It was on the ground briefly and imp	acted no structure		, ,
·			e. There was no as	aniago. The tornado was rated Er o.
OUNN COUNTY 0.5 W HALLIDA	Y [47.35, -102.34] 07/26/10 18:00 MST		45K	Hail (2.00 in)
	07/26/10 18:11 MST		0.15M	Source: COOP Observer
lail up to two inches in diameter wa	as observed in Halliday. Reports of crop da	mage were receive	ed, along with brok	ten windows in Halliday.
/ARD COUNTY 0.7 N SAWYER	-			
	07/26/10 18:05 CST		0	Hail (2.75 in)
	07/26/10 18:13 CST		0	Source: Public
his was the first of two waves of la	rge hail to impact the community of Sawyer	during this episod	e.	
/ARD COUNTY 3.5 S KENMAR			0	Hail (4 00 ia)
	07/26/10 18:09 CST		0	Hail (1.00 in)
	07/26/10 18:15 CST		0	Source: Trained Spotter
/ARD COUNTY 0.7 N SAWYER	-			
	07/26/10 18:19 CST 07/26/10 18:25 CST		0	Hail (1.75 in) Source: Public
CHENRY COUNTY 0.7 S VELV				Hail (0.00 in)
	07/26/10 18:23 CST 07/26/10 18:31 CST		0	Hail (0.88 in) Source: Trained Spotter
	07/26/10 18:31 CST			
ICHENRY COUNTY 2.0 ESE VE	07/26/10 18:31 CST			
CHENRY COUNTY 2.0 ESE VE	07/26/10 18:31 CST		0	Source: Trained Spotter
	07/26/10 18:31 CST ELVA [48.06, -100.89] 07/26/10 18:35 CST 07/26/10 18:41 CST		0	Source: Trained Spotter Hail (2.50 in)
	07/26/10 18:31 CST ELVA [48.06, -100.89] 07/26/10 18:35 CST 07/26/10 18:41 CST		0	Source: Trained Spotter Hail (2.50 in)
	07/26/10 18:31 CST ELVA [48.06, -100.89] 07/26/10 18:35 CST 07/26/10 18:41 CST TAIRE [48.02, -100.84]		0 0 0	Source: Trained Spotter Hail (2.50 in) Source: Public
ICHENRY COUNTY 0.5 W VOL	07/26/10 18:31 CST ELVA [48.06, -100.89] 07/26/10 18:35 CST 07/26/10 18:41 CST TAIRE [48.02, -100.84] 07/26/10 18:49 CST 07/26/10 18:57 CST		0 0 0	Source: Trained Spotter Hail (2.50 in) Source: Public Hail (2.50 in)
ICHENRY COUNTY 0.5 W VOL	07/26/10 18:31 CST ELVA [48.06, -100.89] 07/26/10 18:35 CST 07/26/10 18:41 CST TAIRE [48.02, -100.84] 07/26/10 18:49 CST 07/26/10 18:57 CST		0 0 0	Source: Trained Spotter Hail (2.50 in) Source: Public Hail (2.50 in)
ICHENRY COUNTY 0.5 W VOL	07/26/10 18:31 CST ELVA [48.06, -100.89] 07/26/10 18:35 CST 07/26/10 18:41 CST TAIRE [48.02, -100.84] 07/26/10 18:49 CST 07/26/10 18:57 CST		0 0 0	Source: Trained Spotter Hail (2.50 in) Source: Public Hail (2.50 in) Source: Public
ICHENRY COUNTY 0.5 W VOL	07/26/10 18:31 CST ELVA [48.06, -100.89] 07/26/10 18:35 CST 07/26/10 18:41 CST TAIRE [48.02, -100.84] 07/26/10 18:49 CST 07/26/10 18:57 CST ET [47.60, -101.58] 07/26/10 18:55 CST	age was sustained	0 0 0 0 0 50K 0	Source: Trained Spotter Hail (2.50 in) Source: Public Hail (2.50 in) Source: Public Hail (1.75 in) Source: Public
ICHENRY COUNTY 0.5 W VOLTICLEAN COUNTY 4.8 SE EMME	07/26/10 18:31 CST ELVA [48.06, -100.89]	age was sustained	0 0 0 0 0 50K 0 to vehicles along v	Source: Trained Spotter Hail (2.50 in) Source: Public Hail (2.50 in) Source: Public Hail (1.75 in) Source: Public with broken windows on a chapel.
ICHENRY COUNTY 0.5 W VOLTICLEAN COUNTY 4.8 SE EMME	07/26/10 18:31 CST ELVA [48.06, -100.89]		0 0 0 0 0 50K 0 to vehicles along v	Source: Trained Spotter Hail (2.50 in) Source: Public Hail (2.50 in) Source: Public Hail (1.75 in) Source: Public with broken windows on a chapel. Hail (1.75 in)
ICHENRY COUNTY 0.5 W VOLTICLEAN COUNTY 4.8 SE EMME The large hail was accompanied by	07/26/10 18:31 CST ELVA [48.06, -100.89]	1	0 0 0 0 0 50K 0 to vehicles along v	Source: Trained Spotter Hail (2.50 in) Source: Public Hail (2.50 in) Source: Public Hail (1.75 in) Source: Public with broken windows on a chapel. Hail (1.75 in) Source: Newspaper
ICHENRY COUNTY 0.5 W VOLTICLEAN COUNTY 4.8 SE EMME The large hail was accompanied by	07/26/10 18:31 CST ELVA [48.06, -100.89]	1	0 0 0 0 0 50K 0 to vehicles along v	Source: Trained Spotter Hail (2.50 in) Source: Public Hail (2.50 in) Source: Public Hail (1.75 in) Source: Public with broken windows on a chapel. Hail (1.75 in) Source: Newspaper
MCLEAN COUNTY 7.8 SSE EMM	07/26/10 18:31 CST ELVA [48.06, -100.89]	1	0 0 0 0 50K 0 to vehicles along v	Source: Trained Spotter Hail (2.50 in) Source: Public Hail (2.50 in) Source: Public Hail (1.75 in) Source: Public with broken windows on a chapel. Hail (1.75 in) Source: Newspaper sailstone struck the person's foot.
ICHENRY COUNTY 0.5 W VOLTING TO SEE THE ICHEN COUNTY 4.8 SE EMME The large hail was accompanied by ICLEAN COUNTY 7.8 SSE EMM TARGET HAIL WAS REPORTED AT THE ICHEN COUNTY 7.8 SSE EMM TARGET HAIL WAS REPORTED AT THE ICHEN COUNTY 7.8 SSE EMM	07/26/10 18:31 CST ELVA [48.06, -100.89]	1	0 0 0 0 0 50K 0 to vehicles along v 45K 0 s injured when a ha	Source: Trained Spotter Hail (2.50 in) Source: Public Hail (2.50 in) Source: Public Hail (1.75 in) Source: Public with broken windows on a chapel. Hail (1.75 in) Source: Newspaper additional struck the person's foot. Hail (1.00 in)
ICHENRY COUNTY 0.5 W VOLTICLEAN COUNTY 4.8 SE EMME The large hail was accompanied by ICLEAN COUNTY 7.8 SSE EMM The large hail was reported at the Trian	07/26/10 18:31 CST ELVA [48.06, -100.89]	1	0 0 0 0 50K 0 to vehicles along v	Source: Trained Spotter Hail (2.50 in) Source: Public Hail (2.50 in) Source: Public Hail (1.75 in) Source: Public with broken windows on a chapel. Hail (1.75 in) Source: Newspaper sailstone struck the person's foot.
ICHENRY COUNTY 0.5 W VOLTICLEAN COUNTY 4.8 SE EMME the large hail was accompanied by ICLEAN COUNTY 7.8 SSE EMM arge hail was reported at the Trian ICLEAN COUNTY GARRISON [07/26/10 18:31 CST ELVA [48.06, -100.89]	1	0 0 0 0 0 50K 0 to vehicles along v 45K 0 s injured when a ha	Source: Trained Spotter Hail (2.50 in) Source: Public Hail (2.50 in) Source: Public Hail (1.75 in) Source: Public with broken windows on a chapel. Hail (1.75 in) Source: Newspaper additional struck the person's foot. Hail (1.00 in)
ICHENRY COUNTY 0.5 W VOLTICLEAN COUNTY 4.8 SE EMME The large hail was accompanied by ICLEAN COUNTY 7.8 SSE EMM arge hail was reported at the Trian	07/26/10 18:31 CST ELVA [48.06, -100.89]	1	0 0 0 0 0 50K 0 to vehicles along v 45K 0 s injured when a ha	Source: Trained Spotter Hail (2.50 in) Source: Public Hail (2.50 in) Source: Public Hail (1.75 in) Source: Public with broken windows on a chapel. Hail (1.75 in) Source: Newspaper additional struck the person's foot. Hail (1.00 in)

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MCHENRY COUNTY 1.6 W BALFOUR [47.95,		47.94, -100.50]		
	07/26/10 19:13 CST		30K	Tornado (EF0, L: 2.82 mi , W: 30 yd)
	07/26/10 19:18 CST		0	Source: Newspaper
brief tornado touchdown occurred at a farmstea onsistent with EF0 tornado damage from the En		-	-	-
ICHENRY COUNTY 0.5 W BALFOUR [47.95,	-100.54]			
	07/26/10 19:18 CST		15K	Thunderstorm Wind (EG 61 kt)
	07/26/10 19:30 CST		0	Source: Public
he strong thunderstorm winds blew down severa	al trees.			
UNN COUNTY 6.3 ENE EMERSON [47.22, -1	02.53]			
	07/26/10 19:22 MST		5K	Thunderstorm Wind (EG 52 kt)
	07/26/10 19:30 MST		0	Source: Trained Spotter
stimated winds of 60 mph resulted in some mind	or tree damage.			
CHENRY COUNTY 0.5 W BALFOUR [47.95,	-100.54]			
	07/26/10 19:24 CST		0	Hail (2.75 in)
	07/26/10 19:33 CST		0	Source: Law Enforcement
CHENRY COUNTY DRAKE [47.92, -100.37]				
	07/26/10 19:28 CST		0	Hail (1.75 in)
	07/26/10 19:36 CST		0	Source: Public
			-	
CHENRY COUNTY 2.0 NE TOWNER [48.37,	=		0	Hoil (4.00 io)
	07/26/10 19:42 CST			Hail (1.00 in)
	07/26/10 20:02 CST		0	Source: COOP Observer
ICLEAN COUNTY GARRISON [47.65, -101.42	-			
	07/26/10 20:00 CST		0	Hail (1.75 in)
	07/26/10 20:15 CST		0	Source: Public
CLEAN COUNTY GARRISON [47.65, -101.4:	21			
	07/26/10 20:03 CST		0.10M	Thunderstorm Wind (MG 62 kt)
	07/26/10 20:08 CST		0.15M	Source: ASOS
the strong winds combined with large hail resulting onstruction west of Garrison, several trees being carrison.	-	_		-
ICHENRY COUNTY 4.2 N BALFOUR [48.01,	_		0011	Thursday Mr. 1/50 7010
	07/26/10 20:07 CST		60K	Thunderstorm Wind (EG 70 kt)
	07/26/10 20:19 CST		0	Source: NWS Storm Survey
he strong thunderstorm winds resulted in extens	ive tree damage and destroy	ed a pole barn.		
IERCE COUNTY 5.3 SW ORRIN [48.02, -100	=			
	07/26/10 20:12 CST		0	Hail (1.00 in)
	07/26/10 20:20 CST		0	Source: Trained Spotter
ICHENRY COUNTY DRAKE [47.92, -100.37]				
	07/26/10 20:15 CST		0	Heavy Rain
	07/26/10 20:15 CST		0	Source: Public
No. Louis				
Delete.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MCHENRY COUNTY 0.2 E D	DRAKE [47.92, -100.37], 0.6 W DRAKE [47.92, -	100.38], 0.8 NW D	RAKE [47.93, -100	.38], 0.7 NNE DRAKE [47.93, -100.36]
	07/26/10 20:31 CST		75K	Flash Flood (due to Heavy Rain)
	07/26/10 22:31 CST		0	Source: Fire Department/Rescue
Officials reported up to two feet	t of water covering streets in Drake. The Mayor	of Drake reported	street damage fron	n the water in the northwest corner of
the town. Water damage was a	lso reported to homes due to water entering base	sements.		
WELLS COUNTY 3.1 SW HA	ARVEY ARPT [47.77, -99.98]			
	07/26/10 20:38 CST		0	Funnel Cloud
	07/26/10 20:39 CST		0	Source: Public
A brief funnel cloud appeared b	pefore quickly dissipating.			
MCLEAN COUNTY 5.5 N ME	ERCER [47.56, -100.71]			
	07/26/10 20:42 CST		20K	Thunderstorm Wind (EG 61 kt)
	07/26/10 20:51 CST		0	Source: Trained Spotter
Trees four to five inches in dian	neter were blown down.			
WILLIAMS COUNTY 2.7 WS	W SPRING BROOK [48.23, -103.52]			
	07/26/10 20:45 CST		0	Hail (1.00 in)
	07/26/10 20:50 CST		0	Source: Trained Spotter
BILLINGS COUNTY 12.6 NE	FRYBURG [46.99, -103.12]			
	07/26/40 24:00 MCT		95K	Thunderstorm Wind (EG 74 kt)
	07/26/10 21:00 MST			

Intense thunderstorm winds resulted in damage to outbuildings on a farm. Specifically, one pole barn was destroyed, with the debris from the pole barn damaging two grain bins, a small garage, and vehicles on the farm. Based on reports from local officials and photographs of the damage, it was determined a microburst occurred.

Severe Thunderstorm Watch number 537 was issued for west and north central North Dakota in the late afternoon hours of Monday, July 26th. This was in anticipation of thunderstorms developing and increasing in intensity during the evening along a west to east oriented surface front, stretching from northeastern Montana into north central North Dakota. Organized storm development was expected as a mid level short wave impulse lifted into northeastern Montana, combined with a moderately unstable atmosphere and ample deep layer wind shear.

Early in the evening, Tornado Watch number 538 was issued for northern North Dakota, where low boundary layer dew point depressions and stronger low level wind shear coincided. This was also where isolated severe thunderstorms were ongoing, along with one confirmed tornado touchdown having already occurred.

Numerous severe thunderstorm and several tornado warnings were issued. Numerous reports of large hail, several reports of severe thunderstorm wind gusts, one report of flash flooding, and two confirmed tornadoes occurred during this episode.

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Location Date/Time Deaths & Property & Event Type and Details



Photo by MaRanda Hardmeyer

DUDI FIGURO	LINITY OO	0.14/11/10		400 001
BURLEIGH CO	UNIY 6.2	SWING	147.04.	-100.281

 07/27/10 02:25 CST
 8K
 Lightning

 07/27/10 02:25 CST
 0
 Source: Newspaper

Time of this event is based on radar. Lightning struck an old barn and started a fire sometime early Tuesday morning, July 27th. The barn was allowed to burn itself out. A tractor inside the barn was also destroyed.

Lightning struck a barn in rural Burleigh County in South Central North Dakota. The barn was completely destroyed.

WILLIAMS COUNTY 0.5 W WILLISTON [48.15, -103.63]						
	07/29/10 17:47 CST	0	Hail (1.00 in)			
	07/29/10 17:54 CST	0	Source: Trained Spotter			
WILLIAMS COUNTY 0.5 W EPPING	WILLIAMS COUNTY 0.5 W EPPING [48.28, -103.36]					
	07/29/10 18:15 CST	50K	Hail (2.50 in)			
	07/29/10 18:24 CST	0	Source: Trained Spotter			
The large hail resulted in borken wind	ows in the town of Epping.					

MCKENZIE COUNTY --- 18.0 N ALEXANDER [48.11, -103.63]

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O728/10 18:19 MST	Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
The strong thunderstorm winds resulted in a thirty foot alm troe blown down. WILLIAMS COUNTY — 0.5 W WILLISTON [48.15, 143.63] 07/28/10 19:10 CST 0 0 Source: ASOS MCKENZIE COUNTY — 1.6 ENE GRASSY BUTTE [47.41, -103.22] 07/28/10 19:20 MST 30K Thunderstorm Wind (EG 51 kt) 07/28/10 19:20 MST 0 0 Source: COOP Observer The strong thunderstorm winds resulted in widespread tree charage, with numerous tree limbs broken off. MCKENZIE COUNTY — 6.6 NE GRASSY BUTTE [47.46, -103.14] 07/28/10 19:30 MST 0 Thunderstorm Wind (EG 52 kt) 07/28/10 19:30 MST 0 Source: Trained Spotter Heavy rain accompanied the strong thunderstorm winds. WILLIAMS COUNTY — WILLISTON [48.15, -103.42] 07/28/10 19:30 CST 25K Lightning 07/28/10 19:30 CST 0 Source: Newspaper Lightning struck a mobile home in Williston, resulting in a fire to the residence. Notody was injured in the fire. DUNN COUNTY — 0.5 W HALLIDAY [47.35, -102.43] 07/28/10 20:38 MST 0 Thunderstorm Wind (EG 52 kt) 07/28/10 20:38 MST 0 Source: Law Enforcement Estimated winds of 60 mph were reported. MERCER COUNTY — 0.7 S BEULAN [47.26, -101.78] 07/28/10 21:06 CST 0 Source: Newspaper Estimated winds of 60 mph were reported. A light pole at a gas station in Beulah was blown over, along with several trees in the town of Boulah blown down. Blown over trees or branches knocked utility lines to the ground momentarity disrupting power. MCLEAN COUNTY — 0.3 S ROSEGLEN [47.66, -101.85] 07/28/10 21:16 CST 0 Source: Trained Spotter Heavy rain accompanied the strong thunderstorm winds. MERCER COUNTY — 0.5 W DICKINSON [46.85, 40.27] 07/28/10 21:16 CST 0 Source: Trained Spotter Heavy rain accompanied the strong thunderstorm winds. MERCER COUNTY — 0.5 W DICKINSON [46.85, 40.27] 07/28/10 21:16 MST 0 Source: Trained Spotter Heavy rain accompanied the strong thunderstorm winds. STARK COUNTY — 0.5 W DICKINSON [46.85, 40.27] 07/28/10 21:16 MST 0 Source: Public		07/29/10 18:19 MST		3K	Thunderstorm Wind (EG 61 kt)
WILLIAMS COUNTY — 0.5 W WILLISTON [48.15, -103.63] 07/29/10 19:10 CST 07/29/10 19:20 CST 0 Source: ASOS MCKENZIE COUNTY — 1.6 ENE GRASSY BUTTE [47.41, -103.22] 07/29/10 19:30 MST 07/29/10 19:30 MST 0 Source: COOP Observer The strong thunderstorm winds resulted in widespread tree damage, with numerous tree limbs broken off. MCKENZIE COUNTY — 6.5 NE GRASSY BUTTE [47.46, -103.14] 07/29/10 19:30 MST 0 Thunderstorm Wind (EG 52 kt) 07/29/10 19:30 MST 0 Thunderstorm Wind (EG 52 kt) 07/29/10 19:40 MST 0 Source: Trained Spotter Heavy rain accompanied the strong thunderstorm winds. WILLIAMS COUNTY — WILLISTON [48.15, -103.62] 07/29/10 19:30 CST 07/29/10 20:36 MST 0 Source: Newspaper Lightning 07/29/10 20:36 MST 0 Source: Law Enforcement Eatimated winds of 60 mph were reported. MERCER COUNTY — 0.7 S BEULAH [47.26, -101.78] 07/29/10 20:36 MST 0 Source: Law Enforcement Estimated winds of 60 mph were reported. A light pole at a gas station in Beulah was blown over, along with several trees in the town of Beulah blown down. Blown over trees or branches knocked utility lines to the ground, momentality disrupting power. MCLEAN COUNTY — 8.3 S ROSEGLEN [47.66, -101.85] 07/29/10 21:15 CST 0 Thunderstorm Wind (EG 52 kt) 07/29/10 21:15 CST 0 Thunderstorm Wind (EG 52 kt) 07/29/10 21:15 MST 0 Thunderstorm Wind (EG 52 kt) 07/29/10 21:15 MST 0 Thunderstorm Wind (EG 52 kt) 07/29/10 21:15 MST 0 Thunderstorm Wind (EG 52 kt) 07/29/10 21:15 MST 0 Thunderstorm Wind (EG 52 kt) 07/29/10 21:15 MST 0 Thunderstorm Wind (EG 51 kt) 07/29/10 21:15 MST 0 Thunderstorm Wind (EG 51 kt) 07/29/10 21:15 MST 0 Thunderstorm Wind (EG 51 kt) 07/29/10 21:15 MST 0 Source: AWOS STARK COUNTY — 2.4 ESE HAZEN [47.29, -101.85] 07/29/10 21:13 MST 0 Thunderstorm Wind (EG 61 kt) 07/29/10 21:13 MST 0 Thunderstorm Wind (EG 61 kt) 07/29/10 21:13 MST 0 Source: Public		07/29/10 18:28 MST		0	Source: Law Enforcement
MCKENZIE COUNTY 1.6 ENE GRASSY BUTTE [47.41, -103.22] O7728/10 19:20 DST O7728/10 19:20 MST O7728/10 19:30 MST The strong thunderstorm winds resulted in widespread free damage, with numerous tree limbs broken off. MCKENZIE COUNTY 6.6 NE GRASSY BUTTE [47.46, -103.44] MCKENZIE COUNTY 6.6 NE GRASSY BUTTE [47.46, -103.44] O7728/10 19:30 MST O7728/10 19:30 MST O7728/10 19:30 MST O7728/10 19:30 CST O7728/10 20:36 MST O7728/1	The strong thunderstorm winds resu	ulted in a thirty foot elm tree blown down.			
MCKENZIE COUNTY 1.6 ENE GRASSY BUTTE [47.41, -103.22] 07729/10 19.20 MST 07729/10 19.30 MST 0 Source: COOP Observer The strong thunderstorm winds resulted in widespread tree damage, with numerous tree limbs broken off. MCKENZIE COUNTY 6.6 NE GRASSY BUTTE [47.46, -103.44] 07729/10 19.30 MST 0 Thunderstorm Wind (EG 52 kt) 07729/10 19.30 MST 0 Source: Trained Spotter MCKENZIE COUNTY 6.6 NE GRASSY BUTTE [47.46, -103.44] 07729/10 19.30 MST 0 Thunderstorm Wind (EG 52 kt) 07729/10 19.30 CST 07729/10 20.36 MST 0 Source: Newspaper Lightning struck a mobile home in Williston, resulting in a fire to the residence. Nobody was injured in the fire. DUNN COUNTY 0.5 W HALLIDAY [47.35, -102.34] 07729/10 20.36 MST 0 Source: Law Enforcement Estimated winds of 60 mph were reported. MERCER COUNTY 0.7 S BEULAH [47.26, -101.78] 07729/10 21.36 MST 0 Source: Newspaper Estimated winds of 60 mph were reported. A light pole at a gas station in Beulah was blown over, along with several trees in the town of Beulah blown down. Blown over trees or branches knocked utility lines to the ground, momentarity disrupting power. MCLEAN COUNTY 0.3 S ROSEGLEN [47.66, -101.88] 07729/10 21:15 CST 0 Source: Trained Spotter MERCER COUNTY 2.4 ESE HAZEN [47.29, -101.58] 07729/10 21:15 MST 0 Source: AWOS STARK COUNTY 0.5 W DICKINSON [46.86, -102.79] 07729/10 21:13 MST 0 Thunderstorm Wind (EG 61 kt) 07729/10 21:21 MST 0 Source: Public Estimated winds of 70 mph were reported.	WILLIAMS COUNTY 0.5 W WILL				
MCKENZIE COUNTY 1.6 ENE GRASSY BUTTE [47.41, -103.22] 077291/0 192.0 MST 07291/0 192.0 CST 07291/0 192.0 MST 07291/0					
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WILLIAMS COUNTY WILLISTON [48.15, -103.62] 077/29/10 19:30 CST 0 Source: Newspaper Lightning struck a mobile home in Williston, resulting in a fire to the residence. Nobody was injured in the fire. DUNN COUNTY 0.5 W HALLIDAY [47.35, -102.34] 07/29/10 20:27 MST 0 Thunderstorm Wind (EG 52 kt) 07/29/10 20:36 MST 0 Source: Law Enforcement Estimated winds of 60 mph were reported. MERCER COUNTY 0.7 S BEULAH [47.26, -101.78] 07/29/10 20:54 MST 70K Thunderstorm Wind (EG 52 kt) 07/29/10 21:05 MST 0 Source: Newspaper Estimated winds of 60 mph were reported. A light pole at a gas station in Beulah was blown over, along with several trees in the town of Beulah blown down. Blown over trees or branches knocked utility lines to the ground, momentarily disrupting power. MCLEAN COUNTY 6.3 S ROSEGLEN [47.66, -101.85] 07/29/10 21:06 CST 0 Thunderstorm Wind (EG 52 kt) 07/29/10 21:15 CST 0 Source: Trained Spotter Heavy rain accompanied the strong thunderstorm winds. MERCER COUNTY 2.4 ESE HAZEN [47.29, -101.58] 07/29/10 21:15 MST 0 Thunderstorm Wind (MG 56 kt) 07/29/10 21:15 MST 0 Thunderstorm Wind (MG 56 kt) 07/29/10 21:13 MST 0 Thunderstorm Wind (EG 61 kt) 07/29/10 21:21 MST 0 Source: Poblic Estimated winds of 70 mph were reported.		07/29/10 19:40 MST		0	Source: Trained Spotter
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Lightning struck a mobile home in Williston, resulting in a fire to the residence. Nobody was injured in the fire. DUNN COUNTY 0.5 W HALLIDAY [47.35, -102.34] 07/29/10 20:27 MST 0 Thunderstorm Wind (EG 52 kt) 07/29/10 20:36 MST 0 Source: Law Enforcement Estimated winds of 60 mph were reported. MERCER COUNTY 0.7 S BEULAH [47.26, -101.78] 07/29/10 20:54 MST 07/29/10 21:06 MST 07/29/10 21:06 MST 07/29/10 gover. Newspaper Estimated winds of 60 mph were reported. A light pole at a gas station in Beulah was blown over, along with several trees in the town of Beulah blown down. Blown over trees or branches knocked utility lines to the ground, momentarily disrupting power. MCLEAN COUNTY 6.3 S ROSEGLEN [47.66, -101.85] 07/29/10 21:15 CST 0 Thunderstorm Wind (EG 52 kt) 07/29/10 21:15 CST 0 Source: Trained Spotter Heavy rain accompanied the strong thunderstorm winds. MERCER COUNTY 2.4 ESE HAZEN [47.29, -101.58] 07/29/10 21:15 MST 0 Thunderstorm Wind (MG 56 kt) 07/29/10 21:15 MST 0 Thunderstorm Wind (MG 56 kt) 07/29/10 21:21 MST 0 Thunderstorm Wind (EG 61 kt) 07/29/10 21:21 MST 0 Thunderstorm Wind (EG 61 kt) 07/29/10 21:21 MST 0 Source: Public		07/29/10 19:30 CST		25K	
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STARK COUNTY 0.5 W DICKINSON [46.88, -102.79] 07/29/10 21:13 MST 0 Thunderstorm Wind (EG 61 kt) 07/29/10 21:21 MST 0 Source: Public Estimated winds of 70 mph were reported.					
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07/29/10 21:21 MST 0 Source: Public Estimated winds of 70 mph were reported.	STARK COUNTY 0.5 W DICKINS				
Estimated winds of 70 mph were reported.					
		07/29/10 21:21 MST		O	Source: Public
	Estimated winds of 70 mph were re	ported.			
RENVILLE COUNTY 3.2 W GRANO [48.62, -101.65]	RENVILLE COUNTY 3.2 W GRA				
07/29/10 21:15 CST 0 Hail (1.00 in)					
07/29/10 21:22 CST 0 Source: Law Enforcement		07/29/10 21:22 CST		0	Source: Law Enforcement

RENVILLE COUNTY --- 3.4 NE NORMA [48.73, -101.71]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/29/10 21:16 CST		0	Thunderstorm Wind (EG 52 kt)
	07/29/10 21:23 CST		0	Source: Law Enforcement
Estimated winds of 60 mph were reported.				
MCLEAN COUNTY GARRISON [47.65, -101.42]				
	07/29/10 21:55 CST		0	Thunderstorm Wind (EG 52 kt)
	07/29/10 22:03 CST		0	Source: Public
Estimated winds of 60 mph were reported.				
MCLEAN COUNTY 0.9 W GARRISON [47.65, -1	01.44]			
	07/29/10 21:57 CST		0	Thunderstorm Wind (MG 56 kt)
	07/29/10 22:02 CST		0	Source: ASOS
MORTON COUNTY 0.5 W HEBRON [46.90, -102	2.04]			
	07/29/10 22:14 CST		0	Thunderstorm Wind (EG 61 kt)
	07/29/10 22:22 CST		0	Source: Law Enforcement

Estimated winds of 70 mph were reported.

Severe Thunderstorm Watch number 550 was issued for much of west and north central North Dakota in the late afternoon hours of Thursday, July 29th. This was in anticipation of strong to severe thunderstorms over northeast Montana advecting east into western North Dakota Thursday evening along a trough of surface low pressure, with intensity sustained by an incoming mid level disturbance.

Isolated severe thunderstorms initially moved into northwest North Dakota early Thursday evening, with convective activity transitioning into linear segments during the mid to late evening hours before dissipating.

Multiple severe thunderstorm warnings were issued. Several reports of large hail and multiple reports of severe thunderstorm winds were received during this episode.

SIOUX COUNTY 30.9 W SELFRID	GE [45.98, -101.57]			
	07/31/10 15:14 MST	0	Hail (1.50 in)	
	07/31/10 15:22 MST	0	Source: Trained Spotter	
Heavy rain accompanied quarter to pi	ng pong sized hail.			
ROLETTE COUNTY 5.2 WSW BEL				
		0	Thunderstorm Wind (MG 55 kt)	

An area of low level convergence near a surface warm front, coupled with moderate instability, resulted in scattered thunderstorm development over northern South Dakota and far southern North Dakota during the late afternoon hours of Saturday, July 31st. Severe Thunderstorm Watch number 555 was issued earlier in anticipation of this activity. One severe thunderstorm moving across far southern Sioux County resulted in a report of severe hail.

Later Saturday evening, Severe Thunderstorm Watch number 556 was issued across northern North Dakota in anticipation of strong to severe thunderstorms over far south central Canada pushing south into North Dakota. One severe thunderstorm over Rolette County generated a severe thunderstorm wind gust.

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