

## Storm Data and Unusual Weather Phenomena - September 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>NORTH DAKOTA, Central and West</b>				
<b>WELLS COUNTY --- 3.9 WSW HARVEY ARPT [47.77, -100.00]</b>				
	09/09/10 13:40 CST		0	Hail (0.88 in)
	09/09/10 13:45 CST		0	Source: Public
<b>WELLS COUNTY --- 4.7 WSW HARVEY ARPT [47.77, -100.02]</b>				
	09/09/10 13:45 CST		0	Hail (0.88 in)
	09/09/10 13:50 CST		0	Source: Law Enforcement
<b>SLOPE COUNTY --- 13.9 NNW MARMARTH [46.48, -104.03]</b>				
	09/09/10 14:25 MST		0	Funnel Cloud
	09/09/10 14:25 MST		0	Source: Public
A brief funnel cloud was reported.				
<b>SLOPE COUNTY --- 13.9 NNW MARMARTH [46.48, -104.03]</b>				
	09/09/10 14:25 MST		10K	Thunderstorm Wind (EG 61 kt)
	09/09/10 14:35 MST		0	Source: Public
The strong thunderstorm winds resulted in roof damage.				
<b>SLOPE COUNTY --- 12.4 N MARMARTH [46.48, -103.88], 13.1 N MARMARTH [46.49, -103.87]</b>				
	09/09/10 15:00 MST		30K	Tornado (EF0, L: 0.82 mi , W: 40 yd)
	09/09/10 15:05 MST		0	Source: Newspaper
A tornado touched down near a farmstead in rural Slope County. One small outbuilding was damaged and several small trees were blown down. The damage was consistent with EF0 tornado damage on the Enhanced Fujita Scale. From that it was determined that wind speeds were near 85 mph with this tornado.				
<b>SLOPE COUNTY --- 15.9 N MARMARTH [46.53, -103.92]</b>				
	09/09/10 15:00 MST		0	Hail (2.00 in)
	09/09/10 15:15 MST		0	Source: Public
<b>GOLDEN VALLEY COUNTY --- 6.3 ESE GOLVA [46.68, -103.87]</b>				
	09/09/10 15:19 MST		0	Hail (2.75 in)
	09/09/10 15:29 MST		0	Source: Public
<b>BILLINGS COUNTY --- 1.5 SSW FRYBURG [46.85, -103.33]</b>				
	09/09/10 15:45 MST		0	Funnel Cloud
	09/09/10 15:45 MST		0	Source: Trained Spotter
A brief funnel cloud appeared.				
<b>BILLINGS COUNTY --- 0.9 E FRYBURG [46.87, -103.30]</b>				
	09/09/10 15:46 MST		0	Hail (0.88 in)
	09/09/10 15:52 MST		0	Source: Law Enforcement
<b>BILLINGS COUNTY --- 3.4 SW FRYBURG [46.83, -103.36]</b>				
	09/09/10 15:55 MST		0	Hail (2.75 in)
	09/09/10 16:05 MST		0	Source: Trained Spotter
Strong thunderstorm winds accompanied the large hail.				
<b>BILLINGS COUNTY --- 3.4 SW FRYBURG [46.83, -103.36]</b>				
	09/09/10 15:55 MST		0	Thunderstorm Wind (EG 52 kt)
	09/09/10 16:05 MST		0	Source: Trained Spotter
Large hail accompanied the strong thunderstorm winds.				

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<b>STARK COUNTY --- 3.5 N BELFIELD [46.93, -103.20]</b>				
	09/09/10 16:00 MST		0	Hail (1.50 in)
	09/09/10 16:08 MST		0	Source: COOP Observer
<b>STARK COUNTY --- 1.2 SW GLADSTONE [46.86, -102.57]</b>				
	09/09/10 16:05 MST		0	Hail (1.00 in)
	09/09/10 16:11 MST		0	Source: Trained Spotter
<b>STARK COUNTY --- 1.2 NW BELFIELD [46.89, -103.22]</b>				
	09/09/10 16:06 MST		0	Hail (1.00 in)
	09/09/10 16:12 MST		0	Source: Law Enforcement
<b>STARK COUNTY --- 6.7 NNE BELFIELD [46.97, -103.15]</b>				
	09/09/10 16:20 MST		0	Hail (1.50 in)
	09/09/10 16:25 MST		75K	Source: Trained Spotter
The large hail resulted in some crop damage.				
<b>STARK COUNTY --- 3.4 WNW TAYLOR [46.91, -102.49]</b>				
	09/09/10 16:23 MST		0	Hail (1.00 in)
	09/09/10 16:28 MST		0	Source: Trained Spotter
<b>STARK COUNTY --- 6.2 N BELFIELD [46.97, -103.20]</b>				
	09/09/10 16:31 MST		0	Hail (0.75 in)
	09/09/10 16:38 MST		0	Source: Public
<b>DUNN COUNTY --- 6.3 ENE EMERSON [47.22, -102.53]</b>				
	09/09/10 17:15 MST		0	Hail (1.50 in)
	09/09/10 17:22 MST		0	Source: Public
<b>DUNN COUNTY --- 6.4 NE MARSHALL [47.20, -102.24]</b>				
	09/09/10 17:30 MST		0	Hail (1.75 in)
	09/09/10 17:40 MST		0	Source: Trained Spotter
<b>MERCER COUNTY --- 1.6 WNW BEULAH [47.28, -101.81]</b>				
	09/09/10 17:36 MST		0	Hail (1.00 in)
	09/09/10 17:45 MST		0	Source: COOP Observer
<b>MERCER COUNTY --- 1.6 WNW BEULAH [47.28, -101.81]</b>				
	09/09/10 17:55 MST		0	Thunderstorm Wind (EG 52 kt)
	09/09/10 18:02 MST		0	Source: COOP Observer
Heavy rain accompanied the strong thunderstorm winds.				
<b>MERCER COUNTY --- 11.8 N ZAP [47.45, -101.92]</b>				
	09/09/10 18:36 MST		0	Thunderstorm Wind (EG 52 kt)
	09/09/10 18:44 MST		0	Source: Mesonet
Heavy rain accompanied the strong thunderstorm winds.				
<b>GOLDEN VALLEY COUNTY --- 13.0 SSW TROTTERS [47.14, -104.00]</b>				
	09/09/10 18:45 MST		0	Hail (1.00 in)
	09/09/10 18:53 MST		0	Source: Trained Spotter
<b>GOLDEN VALLEY COUNTY --- 15.1 NNE SENTINEL BUTTE [47.12, -103.70]</b>				
	09/09/10 18:50 MST		0	Hail (1.00 in)
	09/09/10 19:00 MST		0	Source: Trained Spotter

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Strong thunderstorm winds accompanied the large hail.				
<b>GOLDEN VALLEY COUNTY --- 15.1 NNE SENTINEL BUTTE [47.12, -103.70]</b>				
	09/09/10 18:50 MST		0	Thunderstorm Wind (EG 61 kt)
	09/09/10 19:00 MST		0	Source: Trained Spotter
Large hail accompanied the strong thunderstorm winds.				
<b>MERCER COUNTY --- 5.9 NNE GOLDEN VLY [47.36, -102.02], 7.0 NNW BEULAH [47.37, -101.82], 2.7 WSW BEULAH [47.26, -101.84], 3.1 WSW ZAP [47.27, -101.98]</b>				
	09/09/10 19:00 MST		45K	Flash Flood (due to Heavy Rain)
	09/09/10 22:00 MST		0	Source: Law Enforcement
Torrential rain resulted in a flash flood around Zap. A thunderstorm rain total of 4.75 inches was reported from six miles northwest of Zap. Two feet of water covered county roads and highway 200. There was also a report of water in the basement of a home. In addition, Spring Creek near Zap rose nearly ten feet in response to the rain. It pushed the creek to almost one foot over flood stage. The creek was quick to recede.				
<b>MCKENZIE COUNTY --- 1.9 E GRASSY BUTTE [47.40, -103.21]</b>				
	09/09/10 19:35 MST		0	Hail (1.00 in)
	09/09/10 19:44 MST		0	Source: COOP Observer
<b>(ND-Z011) WARD</b>				
	09/09/10 21:32 CST		0	High Wind (MAX 50 kt)
	09/09/10 21:42 CST		0	

A strong surface low pressure system lifting north through the Dakotas, combined with large scale ascent ahead of a long wave upper level trough, brought a prolonged period of severe weather to parts of west and central North Dakota Thursday, September 9th. Severe Thunderstorm Watch number 650 was issued during the mid afternoon in anticipation of increasing thunderstorm coverage and intensity along a surface warm front and ahead of the upper level trough. Tornado Watch number 651 was issued shortly after, as observations and short range model guidance indicated increasing low level wind shear conducive to tornadogenesis.

Multiple severe thunderstorm and tornado warnings were issued. Numerous reports of large hail and severe thunderstorm winds were received along with reports of flash flooding and a tornado.