

Storm Data and Unusual Weather Phenomena - September 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
NORTH DAKOTA, Central and West				
BOWMAN COUNTY --- 0.5 W RHAME [46.23, -103.66]				
	09/06/13 07:23 MST	0		Hail (1.50 in)
	09/06/13 07:28 MST	0		Source: Broadcast Media
BOWMAN COUNTY --- 2.9 W BOWMAN ARPT [46.18, -103.48]				
	09/06/13 07:28 MST	0		Hail (1.00 in)
	09/06/13 07:33 MST	0		Source: Trained Spotter
BOWMAN COUNTY --- 0.5 E BOWMAN [46.18, -103.39]				
	09/06/13 07:30 MST	0		Hail (1.00 in)
	09/06/13 07:35 MST	0		Source: CoCoRaHS
BOWMAN COUNTY --- 2.8 S GRIFFIN [46.18, -103.52]				
	09/06/13 07:35 MST	0		Hail (1.75 in)
	09/06/13 07:42 MST	0		Source: Emergency Manager
BOWMAN COUNTY --- 0.5 E BOWMAN [46.18, -103.39]				
	09/06/13 07:41 MST	0		Hail (1.00 in)
	09/06/13 07:46 MST	0		Source: COOP Observer
BOWMAN COUNTY --- 0.5 W SCRANTON [46.15, -103.14]				
	09/06/13 08:07 MST	0		Hail (0.75 in)
	09/06/13 08:13 MST	0		Source: Emergency Manager
BOWMAN COUNTY --- GASCOYNE [46.12, -103.08]				
	09/06/13 08:15 MST	0		Hail (1.00 in)
	09/06/13 08:20 MST	0		Source: Trained Spotter
An isolated severe thunderstorm produced large hail up to the size of golf balls across Bowman County in far southwestern North Dakota.				
SLOPE COUNTY --- 13.7 NNW MARMARTH [46.48, -104.02]				
	09/07/13 15:35 MST	0		Thunderstorm Wind (MG 56 kt)
	09/07/13 15:40 MST	0		Source: Mesonet
BOWMAN COUNTY --- 0.4 NE BOWMAN ARPT [46.18, -103.41]				
	09/07/13 16:15 MST	0		Hail (1.00 in)
	09/07/13 16:17 MST	0		Source: Law Enforcement
An isolated severe thunderstorm brought severe thunderstorm winds and large hail to Bowman and Slope counties.				
MCINTOSH COUNTY --- 4.6 SSE VENTURA [45.94, -99.51]				
	09/09/13 01:40 CST	0	0.10M	Thunderstorm Wind (EG 65 kt)
	09/09/13 01:50 CST	0		Source: Public
Several farm outbuildings were damaged or destroyed. A barn was blown off of its foundation, wind breaks were destroyed, and a grain bin and pig barn were destroyed. Many tree branches were blown down.				
DICKEY COUNTY --- 0.5 W ELLENDALE [46.00, -98.53]				
	09/09/13 02:15 CST	0		Thunderstorm Wind (EG 61 kt)
	09/09/13 02:20 CST	0		Source: Public
A twelve inch in diameter tree limb was blown down.				
LA MOURE COUNTY --- 0.8 SE LA MOURE [46.34, -98.29]				

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	09/09/13 02:28 CST		0	Thunderstorm Wind (EG 52 kt)
	09/09/13 02:35 CST		0	Source: Emergency Manager

The severe thunderstorm winds blew down tree branches.

DICKEY COUNTY --- 0.7 N LUDDEN [46.01, -98.13]

	09/09/13 02:35 CST		0	Thunderstorm Wind (EG 61 kt)
	09/09/13 02:40 CST		0	Source: Social Media

Heavy rain accompanied the strong winds.

An upper level low over western Montana triggered a line of thunderstorms over eastern Wyoming into northwestern South Dakota during the evening of the 8th. This line of storms persisted across north central South Dakota, and eventually moved into far south central North Dakota early in the morning of the 9th, and continued into the southern Red River Valley. The storms produced straight line severe wind gusts from McIntosh County through LaMoure and Dickey counties.

DIVIDE COUNTY --- 7.7 N ALKABO [48.98, -103.89]

	09/17/13 23:48 CST		0	Hail (0.75 in)
	09/17/13 23:54 CST		0	Source: Trained Spotter

DIVIDE COUNTY --- 0.8 NNW NOONAN [48.89, -103.01]

	09/18/13 00:22 CST		0	Thunderstorm Wind (EG 52 kt)
	09/18/13 00:27 CST		0	Source: Public

Heavy rain accompanied the strong winds.

DICKEY COUNTY --- 0.5 W GUELPH [46.02, -98.24]

	09/18/13 17:12 CST		0	Hail (1.00 in)
	09/18/13 17:18 CST		0	Source: Emergency Manager

DICKEY COUNTY --- 0.7 N LUDDEN [46.01, -98.13]

	09/18/13 17:47 CST		0	Hail (1.75 in)
	09/18/13 17:52 CST		0	Source: Emergency Manager

DICKEY COUNTY --- 3.7 NE GUELPH [46.06, -98.18]

	09/18/13 17:55 CST		0	Hail (1.75 in)
	09/18/13 18:00 CST		0	Source: Emergency Manager

DIVIDE COUNTY --- 12.6 S NOONAN [48.70, -103.05]

	09/18/13 20:00 CST		0	Hail (2.00 in)
	09/18/13 20:06 CST		0	Source: Public

BURKE COUNTY --- BOWBELLS [48.80, -102.25]

	09/18/13 21:12 CST		0	Thunderstorm Wind (EG 52 kt)
	09/18/13 21:19 CST		0	Source: Trained Spotter

Pea size hail accompanied the strong winds.

RENVILLE COUNTY --- 0.5 W TOLLEY [48.73, -101.83]

	09/18/13 21:45 CST		0	Thunderstorm Wind (EG 52 kt)
	09/18/13 21:55 CST		0	Source: Emergency Manager

Pea size hail accompanied the strong winds.

Severe Thunderstorm Watch number 527 was in effect during this event.

Two areas of strong to severe convection occurred during this event. The first was over the southeast where the Severe Thunderstorm Watch was in effect, and the second area was across the northwest.

An upper level low pressure moving across Montana combined with strong bulk shear across west and central North Dakota to trigger an area of severe thunderstorms over the northwest portion of the state. These thunderstorms produced large hail and severe thunderstorm wind gusts.

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Low pressure across South Dakota sent moisture and warm air into the James River Valley resulting in CAPE values as high as 4500 J/Kg. Large hail accompanied the severe convection across Dickey County.