

## Storm Data and Unusual Weather Phenomena - September 2008

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>IOWA, Southwest</b>				
<b>SHELBY COUNTY --- 0.5 W PANAMA [41.73, -95.49]</b>				
	09/23/08 14:45 CST	0		Hail (0.88 in)
	09/23/08 14:45 CST	0		Source: Law Enforcement
<b>FREMONT COUNTY --- 3.5 S TABOR [40.85, -95.67]</b>				
	09/23/08 18:23 CST	0		Hail (0.75 in)
	09/23/08 18:23 CST	0		Source: Trained Spotter
<b>MILLS COUNTY --- 3.5 N TABOR [40.95, -95.67]</b>				
	09/23/08 19:55 CST	0		Hail (0.75 in)
	09/23/08 19:55 CST	0		Source: Public
<b>MILLS COUNTY --- 0.9 NE MALVERN [41.01, -95.59]</b>				
	09/23/08 20:20 CST	0		Hail (0.75 in)
	09/23/08 20:20 CST	0		Source: Public
<b>MONTGOMERY COUNTY --- 0.5 E ELLIOTT [41.15, -95.16]</b>				
	09/23/08 20:49 CST	0		Hail (0.75 in)
	09/23/08 20:49 CST	0		Source: Trained Spotter
<b>MILLS COUNTY --- EMERSON [41.02, -95.40]</b>				
	09/23/08 21:10 CST	0		Hail (0.75 in)
	09/23/08 21:10 CST	0		Source: Trained Spotter
<b>MILLS COUNTY --- 1.0 E HASTINGS [41.02, -95.50]</b>				
	09/23/08 22:00 CST	0		Hail (0.75 in)
	09/23/08 22:00 CST	0		Source: Trained Spotter
<p>As an upper level low pressure system tracked along the United States and Canadian border, a weakening cold front pushed across eastern Nebraska and southwest Iowa. Ahead of the front temperatures climbed into the upper 70s and dewpoint temperatures reached the lower to mid 60s. The resultant instability and cold front helped to spawn severe thunderstorms across southeast Nebraska and southwest Iowa, with hail up to 1 inch in diameter the primary severe parameter.</p>				
<b>NEBRASKA, East</b>				
<b>JOHNSON COUNTY --- 0.9 SW STERLING [40.46, -96.38]</b>				
	09/23/08 15:17 CST	0		Hail (0.88 in)
	09/23/08 15:17 CST	0		Source: Trained Spotter
<b>JOHNSON COUNTY --- 4.9 S VESTA [40.30, -96.32]</b>				
	09/23/08 15:40 CST	0		Hail (0.75 in)
	09/23/08 15:40 CST	0		Source: Public
<b>JOHNSON COUNTY --- 3.0 ESE TECUMSEH [40.35, -96.13], 3.1 NE ELK CREEK [40.31, -96.09]</b>				
	09/23/08 15:50 CST	0		Hail (0.88 in)
	09/23/08 15:57 CST	0		Source: Trained Spotter
<p>Hail up to nickel-size was reported north through northeast of Elk Creek.</p>				
<b>NEMAHA COUNTY --- 0.9 SW AUBURN [40.39, -95.84]</b>				
	09/23/08 16:38 CST	0		Hail (1.00 in)
	09/23/08 16:50 CST	0		Source: Law Enforcement
<p>Hail up to quarter-size fell for a little over 10 minutes in the Auburn area.</p>				

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<b>CASS COUNTY --- 4.7 SE LOUISVILLE [40.95, -96.09]</b>				
	09/23/08 17:37 CST	0		Hail (0.75 in)
	09/23/08 17:37 CST	0		Source: Trained Spotter
<b>LANCASTER COUNTY --- 2.8 N PANAMA [40.64, -96.53]</b>				
	09/23/08 18:45 CST	0		Hail (0.75 in)
	09/23/08 18:45 CST	0		Source: Public
<b>CASS COUNTY --- 1.6 E MURRAY [40.92, -95.89]</b>				
	09/23/08 21:43 CST	0		Hail (0.75 in)
	09/23/08 21:43 CST	0		Source: Trained Spotter
<b>JEFFERSON COUNTY --- 1.7 WNW DILLER [40.11, -96.96]</b>				
	09/23/08 22:58 CST	0		Hail (0.75 in)
	09/23/08 22:58 CST	0		Source: Fire Department/Rescue
Relayed by the Emergency Manager.				
<b>RICHARDSON COUNTY --- FALLS CITY [40.07, -95.60]</b>				
	09/24/08 01:15 CST	0		Thunderstorm Wind (MG 51 kt)
	09/24/08 01:15 CST	0		Source: ASOS
A thunderstorm wind gust was measured at 59 mph by the Falls City Asos.				
<b>As an upper level low pressure system tracked along the United States and Canadian border, a weakening cold front pushed across eastern Nebraska and southwest Iowa. Ahead of the front temperatures climbed into the upper 70s and dewpoint temperatures reached the lower to mid 60s. The resultant instability and cold front helped to spawn severe thunderstorms across southeast Nebraska and southwest Iowa, with hail up to 1 inch in diameter the primary severe parameter.</b>				
<b>KNOX COUNTY --- 5.0 NW VERDEL [42.87, -98.27]</b>				
	09/28/08 19:20 CST	0		Hail (1.25 in)
	09/28/08 19:20 CST	0		Source: Public
<b>KNOX COUNTY --- CREIGHTON [42.47, -97.88]</b>				
	09/28/08 19:40 CST	0		Hail (0.75 in)
	09/28/08 19:40 CST	0		Source: Emergency Manager
<b>KNOX COUNTY --- CROFTON [42.73, -97.48]</b>				
	09/28/08 20:00 CST	0		Hail (0.75 in)
	09/28/08 20:00 CST	0		Source: Emergency Manager
<b>PIERCE COUNTY --- 2.0 S OSMOND [42.34, -97.58]</b>				
	09/28/08 20:15 CST	0		Hail (0.88 in)
	09/28/08 20:15 CST	0		Source: Public
<b>BOONE COUNTY --- CEDAR RAPIDS [41.57, -98.15]</b>				
	09/28/08 20:27 CST	0		Hail (0.75 in)
	09/28/08 20:27 CST	0		Source: Trained Spotter
<b>KNOX COUNTY --- CREIGHTON [42.47, -97.88]</b>				
	09/28/08 21:32 CST	0		Hail (0.88 in)
	09/28/08 21:32 CST	0		Source: Law Enforcement
This was the second severe thunderstorm that dropped hail at least 3/4 of an inch in diameter that night.				
<b>ANTELOPE COUNTY --- 4.0 W BRUNSWICK [42.33, -98.05]</b>				
	09/28/08 22:18 CST	0		Hail (0.75 in)
	09/28/08 22:18 CST	0		Source: Law Enforcement

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**WAYNE COUNTY --- 1.0 W HOSKINS [42.12, -97.32]**

09/28/08 22:50 CST	0	Hail (0.88 in)
09/28/08 22:50 CST	0	Source: Public

Hail up to nickel size knocked leaves off of some trees in the area.

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**CUMING COUNTY --- WISNER [41.98, -96.93]**

09/28/08 23:35 CST	0	Thunderstorm Wind (EG 50 kt)
09/28/08 23:35 CST	0	Source: Fire Department/Rescue

Thunderstorm winds estimated at 55 to 60 mph downed a few tree limbs in town.

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**CUMING COUNTY --- 2.0 S WISNER [41.95, -96.93]**

09/28/08 23:40 CST	0	Hail (0.75 in)
09/28/08 23:40 CST	0	Source: Fire Department/Rescue

Hail up to penny-size covered the ground white a few miles south of Wisner.

**A moderate amount of instability developed across eastern Nebraska Sunday afternoon and evening September 28th as temperatures rose into the 80s and dewpoints reached the lower 60s. As a cold front crossed the area Sunday evening, the instability aided in thunderstorm development, a few of which became severe. The strongest storms produced mainly hail of an inch or less in diameter, but isolated storms produced strong winds. The cold front was driven southeast by a fairly vigorous upper level trough that was dropping southeast out of Canada.**