

## Storm Data and Unusual Weather Phenomena - September 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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### ILLINOIS, Northwest

(IL-Z024) MERCER, (IL-Z025) HENDERSON, (IL-Z026) WARREN, (IL-Z034) HANCOCK

09/03/13 00:00 CST	0	Drought
09/30/13 23:59 CST	0	

After a wet start to the summer, atmospheric conditions developed in July through September that lead to less precipitation falling across the region. This would lead to the development of Severe Drought conditions by September 3 in Hancock, Henderson, Mercer and Warren Counties and continuing through the remainder of the month.

(IL-Z015) ROCK ISLAND

09/10/13 00:00 CST	0	Drought
09/30/13 23:59 CST	0	

After a wet start to the summer, atmospheric conditions developed in July through September that lead to less precipitation falling across the region. This would lead to the development of Severe Drought conditions by September 10 in Rock Island County and continuing through the remainder of the month.

(IL-Z009) WHITESIDE, (IL-Z016) HENRY, (IL-Z017) BUREAU, (IL-Z018) PUTNAM

09/17/13 00:00 CST	0	Drought
09/30/13 23:59 CST	0	

After a wet start to the summer, atmospheric conditions developed in July through September that lead to less precipitation falling across the region. This would lead to the development of Severe Drought conditions by September 17 in Henry, Whiteside, Bureau, and Putnam Counties and continuing through the remainder of the month.

JO DAVIESS COUNTY --- 0.9 SW WARREN [42.49, -89.99]

09/19/13 18:25 CST	0	Thunderstorm Wind (EG 55 kt)
09/19/13 18:25 CST	0	Source: Fire Department/Rescue

The Fire Department reported that trees and power lines were down throughout the town.

Thunderstorms that developed ahead of a cold front moving into the Upper Midwest on the afternoon on September 19, 2013 continued to weaken as they moved eastward into northwest Illinois in the evening. There was an isolated report of wind damage to trees and power lines as the thunderstorms moved through Jo Daviess County. Rainfall amounts ranged 1 to 2 inches across northwest Illinois.

### IOWA, East Central and Southeast

(IA-Z063) IOWA, (IA-Z064) JOHNSON, (IA-Z076) KEOKUK, (IA-Z077) WASHINGTON, (IA-Z078) LOUISA, (IA-Z087) JEFFERSON, (IA-Z088) HENRY, (IA-Z089) DES MOINES, (IA-Z099) LEE

09/03/13 00:00 CST	0	Drought
09/30/13 23:59 CST	0	

After a wet start to the summer, atmospheric conditions developed in July through September that lead to less precipitation falling across the region. This would lead to the development of Severe Drought conditions by September 3 in Jefferson, Keokuk, Washington, Henry, Iowa, Louisa, Des Moines, Lee, and Johnson Counties and continuing through the remainder of the month.

(IA-Z051) BENTON, (IA-Z052) LINN, (IA-Z053) JONES, (IA-Z065) CEDAR, (IA-Z066) CLINTON, (IA-Z067) MUSCATINE, (IA-Z068) SCOTT, (IA-Z098) VAN BUREN

09/10/13 00:00 CST	0	Drought
09/30/13 23:59 CST	0	

After a wet start to the summer, atmospheric conditions developed in July through September that lead to less precipitation falling across the region. This would lead to the development of Severe Drought conditions by September 10 in Benton, Van Buren, Linn, Cedar, Jones, Clinton, Muscatine, and Scott Counties and continuing through the remainder of the month.

LINN COUNTY --- 3.6 NNE WESTERN [41.92, -91.63]

09/19/13 14:29 CST	0	Hail (0.88 in)
09/19/13 14:29 CST	0	Source: Trained Spotter

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A trained spotter reported that penny to nickel sized hail fell near the GE Building on Highway 30 and C St. SW.				
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<b>JONES COUNTY --- 0.7 S ANAMOSA [42.11, -91.28]</b>				
	09/19/13 14:40 CST		6K	Thunderstorm Wind (EG 65 kt)
	09/19/13 14:40 CST		0	Source: Emergency Manager
The Emergency Manager for Jones County reported that part of a tree snapped off and fell on a van outside of the Anamosa Courthouse. The report was delayed.				
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<b>JONES COUNTY --- 1.2 SE SCOTCH GROVE [42.17, -91.10]</b>				
	09/19/13 15:05 CST		1K	Thunderstorm Wind (EG 65 kt)
	09/19/13 15:05 CST		0	Source: Emergency Manager
The Jones County Emergency Manager reported that part of a tree snapped off in Scotch Grove. The report was delayed and time of the event was estimated from radar.				
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<b>KEOKUK COUNTY --- 0.5 W SOUTH ENGLISH [41.45, -92.09]</b>				
	09/19/13 16:50 CST		0	Thunderstorm Wind (EG 50 kt)
	09/19/13 16:50 CST		0	Source: Trained Spotter
A trained spotter reported that 2 inch diameter tree limbs were down in town.				
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<b>KEOKUK COUNTY --- 0.9 SE KINROSS [41.46, -91.99]</b>				
	09/19/13 16:55 CST		0	Thunderstorm Wind (EG 56 kt)
	09/19/13 16:55 CST		0	Source: Trained Spotter
A trained spotter reported 6 inch diameter limbs down.				
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<b>BENTON COUNTY --- BELLE PLAINE [41.90, -92.28]</b>				
	09/19/13 17:02 CST		1K	Thunderstorm Wind (EG 65 kt)
	09/19/13 17:02 CST		0	Source: Trained Spotter
A trained spotter reported that a large tree was down and blocking a road in Belle Plaine.				
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<b>BENTON COUNTY --- 0.9 NE NEWHALL [41.99, -91.97]</b>				
	09/19/13 17:16 CST		0	Thunderstorm Wind (EG 52 kt)
	09/19/13 17:16 CST		0	Source: Trained Spotter
This reported was relayed by the Benton County Emergency Manager.				
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<b>WASHINGTON COUNTY --- 0.5 E WASHINGTON [41.30, -91.69]</b>				
	09/19/13 17:20 CST		20K	Thunderstorm Wind (EG 61 kt)
	09/19/13 17:20 CST		0	Source: Law Enforcement
Law Enforcement reported that trees were down along with roof and vehicle damage at the Washington Golf and Country Club. The time of this event was estimated from radar.				
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<b>JOHNSON COUNTY --- 0.9 SE IOWA CITY [41.66, -91.54]</b>				
	09/19/13 17:25 CST		10K	Thunderstorm Wind (EG 65 kt)
	09/19/13 17:25 CST		0	Source: Law Enforcement
Law Enforcement relayed that they received several reports of limbs down and isolated power poles down in western and southern portions of the county.				
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<b>LINN COUNTY --- 3.5 N WESTERN [41.92, -91.65]</b>				
	09/19/13 17:25 CST		0	Thunderstorm Wind (EG 52 kt)
	09/19/13 17:25 CST		0	Source: Trained Spotter
A trained spotter estimated wind speeds of 60 mph with heavy rain on the southwest side of town. They also reported seeing possible rotation in the clouds.				
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<b>JOHNSON COUNTY --- 0.7 N NORTH LIBERTY [41.76, -91.62]</b>				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/19/13 17:29 CST		0.14M	Thunderstorm Wind (EG 78 kt)
	09/19/13 17:29 CST		0	Source: Emergency Manager
<p>Three properties were damaged on the northwest side of New Liberty. Two homes had their garage doors blown in and walls subsequently blown out of the houses. There were also house windows broken and a flagpole was ripped out of the ground and thrown over a house. A weather station operated by the City of North Liberty measured a peak gust of 73 mph.</p>				
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<b>BENTON COUNTY --- 1.5 SSW VINTON MEML ARPT [42.20, -92.03]</b>				
	09/19/13 17:30 CST		0	Thunderstorm Wind (MG 55 kt)
	09/19/13 17:30 CST		0	Source: AWOS
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<b>JOHNSON COUNTY --- 0.9 SE IOWA CITY [41.66, -91.54]</b>				
	09/19/13 17:30 CST		1K	Thunderstorm Wind (EG 61 kt)
	09/19/13 17:30 CST		0	Source: Trained Spotter
<p>A trained spotter reported a 25 foot tall tree down on the west side of town along the Camp Cardinal Road. The report was delayed and the time of the event was estimated from radar.</p>				
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<b>LINN COUNTY --- 3.5 S CEDAR RAPIDS [41.95, -91.66]</b>				
	09/19/13 17:30 CST		0	Thunderstorm Wind (EG 52 kt)
	09/19/13 17:30 CST		0	Source: Trained Spotter
<p>A trained spotter estimated 60 mph winds with heavy rain.</p>				
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<b>BENTON COUNTY --- 0.7 S SHELLSBURG [42.09, -91.87]</b>				
	09/19/13 17:34 CST		0	Thunderstorm Wind (EG 56 kt)
	09/19/13 17:34 CST		0	Source: Trained Spotter
<p>A trained spotter reported that 4 to 6 inch tree limbs were down in town.</p>				
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<b>LINN COUNTY --- 1.4 N HIAWATHA [42.05, -91.68]</b>				
	09/19/13 17:34 CST		0	Thunderstorm Wind (EG 52 kt)
	09/19/13 17:34 CST		0	Source: Trained Spotter
<p>A trained spotter from Minnesota reported a 5 inch branch down. They estimated the winds to be 50 to 60 MPH. Time of the event was estimated using radar.</p>				
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<b>BENTON COUNTY --- 1.5 SSW VINTON MEML ARPT [42.20, -92.03]</b>				
	09/19/13 17:35 CST		0	Thunderstorm Wind (MG 55 kt)
	09/19/13 17:35 CST		0	Source: AWOS
<p>AWOS reported thunderstorm winds gusting to 63 mph starting at 630 PM and continuing through at least 635 PM.</p>				
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<b>CEDAR COUNTY --- TIPTON [41.77, -91.13]</b>				
	09/19/13 17:50 CST		10K	Thunderstorm Wind (EG 65 kt)
	09/19/13 17:50 CST		0	Source: Trained Spotter
<p>A trained spotter reported that several large trees were down on the west side of town. A cattle shed at the fairgrounds was also blown down. Time of the event was estimated from radar.</p>				
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<b>CEDAR COUNTY --- TIPTON [41.77, -91.13]</b>				
	09/19/13 17:51 CST		0	Thunderstorm Wind (EG 56 kt)
	09/19/13 17:51 CST		0	Source: Trained Spotter
<p>A trained spotter reported that 8 to 12 inch diameter tree limbs were down.</p>				
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<b>JONES COUNTY --- 0.5 W OLIN [42.00, -91.14]</b>				
	09/19/13 18:00 CST		0	Hail (1.00 in)
	09/19/13 18:00 CST		0	Source: Trained Spotter
<p>A trained spotter reported nickel to quarter size hail.</p>				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>DELAWARE COUNTY --- 0.5 E DELAWARE [42.47, -91.34]</b>				
	09/19/13 18:20 CST		25K	Thunderstorm Wind (EG 56 kt)
	09/19/13 18:20 CST		0	Source: Broadcast Media

Broadcast Media reported a large sign was blown down damaging 3 cars. Time of the event was estimated from radar.

<b>DUBUQUE COUNTY --- 0.5 E GRAF [42.50, -90.86]</b>				
	09/19/13 18:43 CST		0	Thunderstorm Wind (EG 52 kt)
	09/19/13 18:43 CST		0	Source: State Official

A state official reported 3 to 4 inch tree limbs down between Graf and Twin Spring. The report was delayed.

<b>DUBUQUE COUNTY --- 2.8 N CENTRALIA [42.52, -90.82]</b>				
	09/19/13 18:44 CST		1K	Thunderstorm Wind (EG 50 kt)
	09/19/13 18:44 CST		0	Source: State Official

A state official reported that a highway sign was down at the Sundown Ski Resort. The report was delayed.

**Two waves of showers and thunderstorms developed ahead of a cold front moving into the Upper Midwest on September 19, 2013. Some of these thunderstorms became severe during the afternoon and continued into the evening. Isolated reports of wind damage occurred in southeast Iowa while several reports of wind damage were received from Linn County northeastward to Dubuque County. Rainfall amounts ranged from a few hundredths along Interstate 80 to 0.75 to 1.50 inches from Linn County through Dubuque County.**

### MISSOURI, Northeast

<b>(MO-Z009) SCOTLAND, (MO-Z010) CLARK</b>				
	09/03/13 00:00 CST		0	Drought
	09/30/13 23:59 CST		0	

After a wet start to the summer, atmospheric conditions developed in July through September that lead to less precipitation falling across the region. This would lead to the development of Severe Drought conditions by September 3 in Clark and Scotland Counties and continuing through the remainder of the month.