

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
IOWA, Northeast				
MITCHELL COUNTY --- 0.6 NE MONA [43.49, -92.94]				
	07/01/11 21:02 CST		0.50K	Thunderstorm Wind (EG 52 kt)
	07/01/11 21:02 CST		0	Source: Law Enforcement
Some large trees were blown down near Otranto.				
MITCHELL COUNTY --- 1.8 W ST ANSGAR ARPT [43.38, -92.98]				
	07/01/11 21:02 CST		0.50K	Thunderstorm Wind (EG 52 kt)
	07/01/11 21:02 CST		0	Source: Law Enforcement
Trees were blown down about two miles west of Saint Ansgar.				
FLOYD COUNTY --- 0.4 SSW NORA SPGS [43.15, -93.00]				
	07/01/11 21:17 CST		1K	Thunderstorm Wind (EG 52 kt)
	07/01/11 21:17 CST		0	Source: Newspaper
Trees were blown down in Nora Springs.				
MITCHELL COUNTY --- 0.5 E OSAGE [43.28, -92.81]				
	07/01/11 21:17 CST		1.50K	Thunderstorm Wind (EG 55 kt)
	07/01/11 21:17 CST		0	Source: Law Enforcement
A few trees were blown down in Osage.				
A cold front passing by to the north triggered severe thunderstorms across parts of northeast Iowa. The storms knocked down trees near Otranto (Mitchell County), St. Ansgar (Mitchell County) and Osage (Mitchell County).				
CLAYTON COUNTY --- 0.7 N GUTTENBURG [42.79, -91.10]				
	07/11/11 04:27 CST		2K	Thunderstorm Wind (EG 61 kt)
	07/11/11 04:27 CST		0	Source: Emergency Manager
Trees were blown down in Guttenberg.				
CLAYTON COUNTY --- 8.1 SE TURKEY RIVER [42.66, -90.92]				
	07/11/11 04:40 CST		2K	Thunderstorm Wind (EG 53 kt)
	07/11/11 04:40 CST		0	Source: Broadcast Media
Trees were blown down near the Mississippi River.				
A cold front pushed into eastern Minnesota and northwest Iowa in the early morning hours of July 11th. Severe thunderstorms along the cold front knocked down trees in Guttenberg (Clayton County).				
(IA-Z008) MITCHELL, (IA-Z009) HOWARD, (IA-Z010) WINNESHIEK, (IA-Z011) ALLAMAKEE, (IA-Z018) FLOYD, (IA-Z019) CHICKASAW, (IA-Z029) FAYETTE, (IA-Z030) CLAYTON				
	07/17/11 14:00 CST		0.27M	Excessive Heat
	07/20/11 22:00 CST	4	0	
Warm and humid air invaded northeast Iowa on July 17th and remained in place for the next three days. During this stretch, afternoon heat indices routinely topped out between 110 and 120. Little relief occurred at night, as overnight lows remained in the 70s. The heat caused four people to visit the emergency room in Allamakee County and a farmer lost several head of cattle in Mitchell County. Most of the counties across northeast Iowa also opened cooling centers.				
FLOYD COUNTY --- ROCKFORD [43.05, -92.97], 0.2 S ROCKFORD [43.05, -92.97], 0.6 ESE ROCKFORD [43.05, -92.96], 0.5 E ROCKFORD [43.05, -92.96]				
	07/20/11 00:00 CST		0	Flood (due to Heavy Rain)
	07/22/11 12:00 CST		0	Source: Newspaper
Flooding along the Shell Rock River occurred in Rockford from heavy rains that fell over portions of southern Minnesota and north central Iowa.				
Heavy rains that fell during the middle part of July across southern Minnesota and north central Iowa, pushed the Shell Rock River out of its banks in Rockford (Floyd County).				

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FAYETTE COUNTY --- FAYETTE [42.83, -91.80]				
	07/27/11 16:00 CST		0	Heavy Rain
	07/28/11 06:00 CST		0	Source: COOP Observer

The COOP observer in Fayette reported a total of 4.43 inches of rain at 6 a.m.

CLAYTON COUNTY --- VOLGA [42.80, -91.53]				
	07/27/11 16:30 CST		0	Heavy Rain
	07/28/11 06:00 CST		0	Source: COOP Observer

The COOP observer in Volga reported a total of 4.99 inches of rain at 6 a.m.

CLAYTON COUNTY --- 2.8 S OSTERDOCK [42.73, -91.16], 3.1 SSW OSTERDOCK [42.73, -91.19], 2.6 SSW OSTERDOCK [42.74, -91.19], 2.4 SSE OSTERDOCK [42.74, -91.16], 3.1 W TURKEY RIVER [42.73, -91.11], 3.0 WNW MILLVILLE [42.72, -91.12]				
	07/28/11 03:35 CST		5K	Flood (due to Heavy Rain)
	07/28/11 06:00 CST		0	Source: Law Enforcement

Water from the Turkey River went over several roads near Osterdock causing some minor damage.

CLAYTON COUNTY --- 0.5 N MILLVILLE [42.71, -91.07], 0.5 NNW MILLVILLE [42.71, -91.07], 0.2 WNW MILLVILLE [42.70, -91.07], 1.8 W MILLVILLE [42.70, -91.10], 1.7 NNE GRAHAM [42.69, -91.10], 0.1 S MILLVILLE [42.70, -91.07]				
	07/28/11 04:25 CST		5K	Flood (due to Heavy Rain)
	07/28/11 10:30 CST		0	Source: Law Enforcement

Rising waters from the Little Turkey River went over parts of Graham Road near U.S. Highway 52 in Millville. Some of the rising water also went into the basements of some homes.

Several rounds of thunderstorms developed north of a warm front and trained across portions of northeast Iowa into Southwest Wisconsin during the evening of July 27th into the early morning hours of the 28th. The highest reported rainfall total from these storms was 4.99 inches in Volga (Clayton County). The heavy rain did produce some minor flooding as area streams and rivers came out of their banks for a short period.

MINNESOTA, Southeast

DODGE COUNTY --- HAYFIELD [43.88, -92.87]				
	07/01/11 20:02 CST		0	Thunderstorm Wind (EG 52 kt)
	07/01/11 20:02 CST		0	Source: Amateur Radio

Amateur radio operators estimated a wind gust of 60 miles per hour.

OLMSTED COUNTY --- 1.1 WNW JUDGE [43.90, -92.49]				
	07/01/11 20:09 CST		0	Thunderstorm Wind (MG 50 kt)
	07/01/11 20:09 CST		0	Source: ASOS

The automated weather observing equipment at the Rochester International airport measured a wind gust of 58 miles per hour.

WABASHA COUNTY --- 2.0 ENE ELGIN [44.14, -92.21]				
	07/01/11 20:10 CST		0	Thunderstorm Wind (MG 57 kt)
	07/01/11 20:10 CST		0	Source: Amateur Radio

Amateur radio operators measured a wind gust of 66 miles per hour three miles southwest of Plainview.

WABASHA COUNTY --- ELGIN [44.13, -92.25]				
	07/01/11 20:16 CST		0	Thunderstorm Wind (MG 52 kt)
	07/01/11 20:16 CST		0	Source: Amateur Radio

Amateur radio operators measured a wind gust of 60 miles per hour in Elgin.

MOWER COUNTY --- 0.9 SE MAPLEVIEW [43.67, -92.97]				
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Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/01/11 20:30 CST		0.40K	Thunderstorm Wind (EG 55 kt)
	07/01/11 20:30 CST		0	Source: Broadcast Media
Two six to eight inch in diameter trees were blown down on the southeast side of Austin.				
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WINONA COUNTY --- 0.5 E LEWISTON [43.98, -91.87]				
	07/01/11 20:42 CST		0.20K	Thunderstorm Wind (EG 52 kt)
	07/01/11 20:42 CST		0	Source: Law Enforcement
A few trees were blown in Lewiston.				
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FILLMORE COUNTY --- 0.6 N WYKOFF [43.71, -92.27]				
	07/01/11 20:47 CST		5K	Thunderstorm Wind (EG 55 kt)
	07/01/11 20:47 CST		0	Source: Law Enforcement
The winds from a thunderstorm damaged the roof to the Kingsland Middle School.				
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OLMSTED COUNTY --- 2.1 ESE LAIRD [43.96, -92.19]				
	07/01/11 20:56 CST		0	Thunderstorm Wind (MG 55 kt)
	07/01/11 20:56 CST		0	Source: Mesonet
An automated weather station measured a wind gust of 63 miles per hour southeast of Eyota.				
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FILLMORE COUNTY --- 0.3 SE PRESTON FLLMR ARPT [43.68, -92.18]				
	07/01/11 20:58 CST		0	Thunderstorm Wind (MG 63 kt)
	07/01/11 20:58 CST		0	Source: AWOS
The automated weather observing equipment at the Preston airport measured a wind gust of 72 miles per hour.				
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HOUSTON COUNTY --- 2.5 ENE MOUND PRAIRIE [43.80, -91.41]				
	07/01/11 21:20 CST		0	Thunderstorm Wind (MG 53 kt)
	07/01/11 21:20 CST		0	Source: COOP Observer
A wind gust of 61 miles per hour was measured four miles northwest of Hokah.				
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HOUSTON COUNTY --- 1.2 SW HOKAH [43.76, -91.35]				
	07/01/11 21:22 CST		2K	Thunderstorm Wind (EG 55 kt)
	07/01/11 21:22 CST		0	Source: Emergency Manager
Trees were blown down in Hokah.				
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MOWER COUNTY --- 0.9 NE GRAND MEADOW [43.71, -92.57]				
	07/01/11 21:22 CST		0	Thunderstorm Wind (EG 56 kt)
	07/01/11 21:22 CST		0	Source: Broadcast Media
An estimated wind gust of 65 miles per hour occurred in Grand Meadow.				
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WINONA COUNTY --- 0.9 SE DAKOTA [43.91, -91.36]				
	07/01/11 21:22 CST		0.20K	Thunderstorm Wind (EG 52 kt)
	07/01/11 21:22 CST		0	Source: Law Enforcement
A few trees were blown down near Dakota.				
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HOUSTON COUNTY --- 0.7 ESE RIVER JCT [43.83, -91.31]				
	07/01/11 21:25 CST		5K	Thunderstorm Wind (EG 55 kt)
	07/01/11 21:25 CST		0	Source: Emergency Manager
Trees and power lines were blown down in La Crescent.				
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WINONA COUNTY --- 0.5 W WINONA [44.05, -91.66]				
	07/01/11 22:36 CST		1K	Lightning
	07/01/11 22:36 CST		0	Source: Law Enforcement

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Lightning struck a house in Winona.

A cold front over central Minnesota pushed into central Wisconsin during the evening hours of July 1st. Severe thunderstorms developed along the cold front and moved into southeast Minnesota producing wind gusts above 70 mph, damage to roofs, and knocking down trees and power lines across much of the region.

WABASHA COUNTY --- 0.7 SSE MAZEPPA [44.27, -92.54]

	07/10/11 23:22 CST		3K	Thunderstorm Wind (EG 56 kt)
	07/10/11 23:22 CST		0	Source: Law Enforcement

High winds from thunderstorms knocked down power lines and caused power outages around Mazeppa.

WABASHA COUNTY --- 0.9 N KELLOGG [44.33, -92.00], 0.2 NNW KELLOGG [44.32, -92.00]

	07/10/11 23:40 CST		2K	Thunderstorm Wind (EG 56 kt)
	07/10/11 23:40 CST		0	Source: Law Enforcement

Trees were blown down along U.S. Highway 61 north of Kellogg.

A cold front pushed into eastern Minnesota in the early morning hours of July 11th. Severe thunderstorms along the cold front knocked down trees near Kellogg (Wabasha County) and caused power outages near Mazeppa (Wabasha County).

DODGE COUNTY --- 2.0 SE MANTORVILLE [44.05, -92.72]

	07/15/11 10:30 CST		0	Heavy Rain
	07/15/11 18:40 CST		0	Source: CoCoRaHS

A total of 4.11 inches of rain was measured during the late morning and afternoon.

OLMSTED COUNTY --- 1.5 SSW ROCHESTER [44.01, -92.48]

	07/15/11 10:45 CST		0	Heavy Rain
	07/15/11 17:45 CST		0	Source: Mesonet

An automated weather observing system on the north side of Rochester measured 4.53 inches of rain during the late morning and afternoon.

MOWER COUNTY --- 2.7 W AUSTIN ACRES [43.64, -93.05], 3.1 WNW MAPLEVIEW [43.69, -93.04], 0.4 S DEXTER [43.71, -92.72], 1.3 SW ELKTON [43.66, -92.74]

	07/15/11 15:15 CST		0	Flood (due to Heavy Rain)
	07/15/11 18:45 CST		0	Source: Emergency Manager

Heavy rain created flooding in Austin and along parts of Interstate 90. A few motorists became stranded in the high water.

MOWER COUNTY --- WALTHAM [43.82, -92.88]

	07/15/11 15:28 CST		0	Thunderstorm Wind (EG 61 kt)
	07/15/11 15:28 CST		10K	Source: Law Enforcement

Some corn was flattened by the high winds near Waltham.

DODGE COUNTY --- 3.2 SE OSLO [43.85, -92.70], 2.9 SE HAYFIELD [43.85, -92.83], 2.3 SSE WASIOJA [44.05, -92.80], 2.3 ESE MANTORVILLE [44.05, -92.71]

	07/15/11 15:30 CST		0	Flood (due to Heavy Rain)
	07/15/11 16:25 CST		0	Source: Law Enforcement

Water was over State Highway 30, County Road 13 and some streets in Kasson.

OLMSTED COUNTY --- 2.8 SSE DOUGLAS [44.08, -92.55], 3.1 S RINGE [44.08, -92.41], 1.5 NNW SIMPSON [43.95, -92.42], 2.7 ESE SALEM CORNERS [43.96, -92.55]

	07/15/11 15:35 CST		25K	Flood (due to Heavy Rain)
	07/15/11 18:35 CST		0	Source: Emergency Manager

Widespread street flooding was reported in Rochester with some streets under 1 to 2 feet of water.

MOWER COUNTY --- 0.9 NE GRAND MEADOW [43.71, -92.57]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/15/11 15:50 CST		0	Thunderstorm Wind (MG 53 kt)
	07/15/11 15:50 CST		0	Source: Fire Department/Rescue

A wind gust of 61 mph was measured near Grand Meadow.

MOWER COUNTY --- 3.1 W MAPLEVIEW [43.69, -93.04], 2.9 W MAPLEVIEW [43.69, -93.04], 2.9 W MAPLEVIEW [43.68, -93.04], 3.1 W MAPLEVIEW [43.69, -93.04]

	07/16/11 02:00 CST		0	Flood (due to Heavy Rain)
	07/17/11 11:00 CST		0	Source: River/Stream Gage

Heavy rains pushed Turtle Creek out of its banks from the 16th into the 17th. The creek crested over a foot above the flood stage at 11.74 feet.

A warm front remained nearly stationary over southern Minnesota in the late afternoon and early evening hours on July 15th. Showers and thunderstorms developed along this front and tracked over southeast Minnesota. Some isolated wind damage occurred with corn blown down near Waltham (Mower County). The showers and thunderstorms produced very heavy rainfall as well with reports from Austin (Mower County) of 3.17 inches and 4.11 inches near Mantorville (Dodge County). The heavy rain caused flooding of roadways near the cities of Austin, Rochester (Olmsted County) and Oslo (Dodge County).

(MN-Z079) WABASHA, (MN-Z086) DODGE, (MN-Z087) OLMSTED, (MN-Z088) WINONA, (MN-Z094) MOWER, (MN-Z095) FILLMORE, (MN-Z096) HOUSTON

	07/17/11 11:30 CST		0.16M	Excessive Heat
	07/20/11 19:00 CST		0	

Warm and humid air invaded southeast Minnesota on July 17th and remained in place for the next three days. During this stretch, afternoon heat indices routinely topped out between 110 and 120. Little relief occurred at night, as overnight lows remained in the 70s. Most of the counties across southeast Minnesota opened cooling centers with Winona County reporting a total of 46 people using the cooling center. Several farmers loss some livestock due to the heat and at one feedlot near Harmony (Fillmore County), at least 24 head of cattle were lost. Rochester set known records for highest heat index ever (118) and highest dew point (83 deg F).

WABASHA COUNTY --- 1.2 NE DUMFRIES [44.36, -92.10]

	07/18/11 05:25 CST		2K	Thunderstorm Wind (EG 50 kt)
	07/18/11 05:25 CST		0	Source: Emergency Manager

Several 10 to 12 inch diameter trees were snapped off by high winds west of Wabasha along County Road 30. A few tree limbs were also blown down in the city of Wabasha and the power was out in parts of the city for about 30 minutes.

On July 18th, a nearly stationary cold front extended across northern Wisconsin into central Minnesota. Not long after sunrise, a small complex of thunderstorms developed over eastern Minnesota ahead of the cold front. As these storms moved into southeast Minnesota they produced some damaging winds west of Wabasha (Wabasha County).

OLMSTED COUNTY --- 3.6 ENE SALEM CORNERS [43.99, -92.53], 2.7 SSE DOUGLAS [44.08, -92.55], 3.0 SW RINGE [44.09, -92.44], 2.7 W CHESTER [44.00, -92.40]

	07/23/11 09:15 CST		0	Flood (due to Heavy Rain)
	07/23/11 11:15 CST		0	Source: Newspaper

Locally heavy rains in Rochester flooded several city streets dislodging some manhole covers.

WABASHA COUNTY --- 0.9 SE MAZEPPA [44.27, -92.54]

	07/23/11 09:24 CST		1K	Thunderstorm Wind (EG 50 kt)
	07/23/11 09:24 CST		0	Source: Law Enforcement

Power lines were blown down around Mazeppa.

WINONA COUNTY --- 1.0 E ST CHARLES [43.97, -92.06]

	07/23/11 10:10 CST		3K	Thunderstorm Wind (EG 52 kt)
	07/23/11 10:10 CST		0	Source: Emergency Manager

Power lines and trees were blown down in St. Charles.

WINONA COUNTY --- 0.5 W ALTURA [44.07, -91.94]

	07/23/11 10:18 CST		0.20K	Thunderstorm Wind (EG 52 kt)
	07/23/11 10:18 CST		0	Source: Law Enforcement

Winds from a thunderstorm were estimated to be around 60 mph, blowing down some tree limbs in Altura.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
WINONA COUNTY --- 1.4 W WINONA MUNI ARPT [44.08, -91.73], 1.2 WNW HOMER [44.03, -91.59], 1.1 W HOMER [44.02, -91.59], 1.1 SSW WINONA [44.04, -91.66], 1.5 W GOODVIEW [44.07, -91.73]				
	07/23/11 10:50 CST		0	Flood (due to Heavy Rain)
	07/23/11 13:00 CST		0	Source: Trained Spotter
Heavy rains in the city of Winona produced some localized flooding along U.S. Highway 61.				
WINONA COUNTY --- 2.0 NE RIDGEWAY [43.94, -91.54]				
	07/23/11 10:52 CST		2K	Thunderstorm Wind (EG 50 kt)
	07/23/11 10:52 CST		0	Source: Public
Several trees were blown down on Township Road 8 southeast of Pickwick.				
HOUSTON COUNTY --- 0.7 WNW RIVER JCT [43.83, -91.33]				
	07/23/11 11:01 CST		2.50K	Thunderstorm Wind (EG 50 kt)
	07/23/11 11:01 CST		0	Source: Law Enforcement
Large trees were blown down on a house along Town Hall Road just west of La Crescent.				
Thunderstorms developed over Montana on the 22nd and maintained themselves for over 24 hours as they moved across the Dakotas and western Minnesota. These storms intensified during the late morning of the 23rd once they moved across a nearly stationary front that was stretched across central Minnesota into northern Wisconsin. They produced damaging winds and locally heavy rain across portions of southeast Minnesota.				
MOWER COUNTY --- BROWNSDALE [43.73, -92.87]				
	07/28/11 14:00 CST		0	Heavy Rain
	07/28/11 17:00 CST		0	Source: Fire Department/Rescue
A total of 5 inches of rain fell in Brownsdale between 2 p.m. and 5 p.m. CST.				
OLMSTED COUNTY --- 1.5 SSW ROCHESTER [44.01, -92.48]				
	07/28/11 15:17 CST		0	Heavy Rain
	07/28/11 15:32 CST		0	Source: Amateur Radio
Amateur radio operators reported that 2.18 inches of rain fell in in about 15 minutes in Rochester.				
MOWER COUNTY --- 1.0 NE BROWNSDALE [43.74, -92.86], 0.7 ENE BROWNSDALE [43.73, -92.86], 2.1 WNW BROWNSDALE [43.74, -92.91], 1.5 SSE MAYVILLE [43.75, -92.91]				
	07/28/11 15:30 CST		12K	Flash Flood (due to Heavy Rain)
	07/28/11 17:30 CST		0	Source: Department of Highways
Around three feet of water covered a county road with numerous wash outs and damage to drainage ditches east of Brownsdale. The roads in the area were closed until the water receded. West of Brownsdale, County Road 16 was also closed for a while with water over the road. The sewer system in Brownsdale was not able to handle all the runoff causing a backup into about 10 basements.				
OLMSTED COUNTY --- 2.5 ESE DOUGLAS [44.11, -92.52], 2.9 E DOUGLAS [44.11, -92.51], 3.2 ESE DOUGLAS [44.10, -92.51], 2.8 ESE DOUGLAS [44.10, -92.52]				
	07/28/11 15:30 CST		0	Flood (due to Heavy Rain)
	07/28/11 17:30 CST		0	Source: Amateur Radio
Water covered parts of U.S. Highway 52 at the exit for 75th Street NW in Rochester.				
OLMSTED COUNTY --- 3.4 NNE ROCHESTER [44.07, -92.44]				
	07/28/11 16:30 CST		5K	Lightning
	07/28/11 16:30 CST		0	Source: Broadcast Media
Lightning struck a house on the northeast side of Rochester. The strike melted a hole through a gas line, ignited the gas causing a small fire.				
Thunderstorms developed along and north of a nearly stationary warm front over southeast Minnesota during the afternoon of July 28th. These storms were very slow moving and were excellent rain producers dumping between 4 and 5 inches of rain on some locations. The highest reported rainfall total was 5 inches in Brownsdale (Mower County).				

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WISCONSIN, Southwest				
TREMPEALEAU COUNTY --- OSSEO [44.58, -91.22]				
	07/01/11 20:57 CST		4K	Thunderstorm Wind (EG 55 kt)
	07/01/11 20:57 CST		0	Source: Law Enforcement
Power lines were knocked down in Osseo.				
JACKSON COUNTY --- 0.6 NE ALMA CENTER [44.44, -90.91]				
	07/01/11 21:20 CST		5K	Thunderstorm Wind (EG 55 kt)
	07/01/11 21:20 CST		0	Source: Law Enforcement
Trees and power lines were blown down in Alma Center.				
CLARK COUNTY --- 0.7 N SIDNEY [44.56, -90.65]				
	07/01/11 21:28 CST		6K	Thunderstorm Wind (EG 56 kt)
	07/01/11 21:28 CST		0	Source: Emergency Manager
Trees were blown down on at least one vehicle west of Neillsville.				
LA CROSSE COUNTY --- 0.7 NW ONALASKA [43.89, -91.24]				
	07/01/11 21:30 CST		6.70K	Thunderstorm Wind (EG 61 kt)
	07/01/11 21:30 CST		0	Source: Trained Spotter
An estimated 70 mph wind gust snapped off and uprooted numerous trees along the shoreline of Lake Onalaska. Numerous other trees were either uprooted or snapped off along Well Street between Oak and 11th Avenues in Onalaska. Also, a 100 year old maple tree went down on top of a house damaging the roof.				
LA CROSSE COUNTY --- 0.8 S WEST LA CROSSE [43.84, -91.25]				
	07/01/11 21:30 CST		0.20K	Thunderstorm Wind (EG 52 kt)
	07/01/11 21:30 CST		0	Source: Law Enforcement
A few trees were blown down in Copeland Park in the city of La Crosse.				
CLARK COUNTY --- 2.7 ENE VEEFKIND [44.71, -90.33]				
	07/01/11 21:46 CST		2.50K	Thunderstorm Wind (EG 61 kt)
	07/01/11 21:46 CST		0	Source: Trained Spotter
A tree was blown down and the high winds created damage to the siding and roof of a metal shed.				
MONROE COUNTY --- 1.1 NNE SPARTA [43.94, -90.81], 1.5 NE SPARTA [43.95, -90.80]				
	07/01/11 21:49 CST		10K	Thunderstorm Wind (EG 61 kt)
	07/01/11 21:50 CST		0	Source: Emergency Manager
Power lines and tree limbs were blown down and the high winds created some roof damage to a few buildings in Sparta. Also, a tree was blown down on top of garage causing damage to the roof.				
MONROE COUNTY --- 0.2 SW WYEVILLE [44.03, -90.38]				
	07/01/11 22:10 CST		9K	Thunderstorm Wind (EG 61 kt)
	07/01/11 22:10 CST		0	Source: Newspaper
Trees and power lines were blown down in Wyeville. Also, flashing was blown off a building and another home sustained unspecified damage.				
JUNEAU COUNTY --- 0.5 SW FINLEY [44.21, -90.14]				
	07/01/11 22:20 CST		2K	Thunderstorm Wind (EG 61 kt)
	07/01/11 22:20 CST		0	Source: Broadcast Media
Trees were blown down along State Highway 80 and County Road F.				
JUNEAU COUNTY --- 1.8 E NECEDAH [44.03, -90.04]				

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	07/01/11 22:32 CST		2K	Thunderstorm Wind (EG 61 kt)
	07/01/11 22:32 CST		0	Source: Law Enforcement
Several trees were blown down along State Highway 21 east of Necedah.				
ADAMS COUNTY --- 3.2 NNW CAUSEWAY [44.02, -89.95]				
	07/01/11 22:34 CST		0	Thunderstorm Wind (MG 55 kt)
	07/01/11 22:34 CST		0	Source: Trained Spotter
A wind gust of 63 miles per hour was measured five miles east of Necedah.				
ADAMS COUNTY --- BIG FLATS [44.12, -89.80]				
	07/01/11 22:35 CST		0	Thunderstorm Wind (EG 52 kt)
	07/01/11 22:35 CST		0	Source: Public
A wind gust of 60 miles per hour was estimated near Big Flats.				
LA CROSSE COUNTY --- 0.3 NNE LA CROSSE [43.80, -91.25]				
	07/01/11 23:30 CST		8K	Lightning
	07/02/11 00:30 CST		0	Source: Newspaper
Lightning struck and caused a house to catch on fire in the city of La Crosse. The house sustained minor damage.				
A cold front over central Minnesota pushed into central Wisconsin during the evening hours of July 1st triggering severe thunderstorms. The storms produced wind gusts up to 60 miles per hour causing roof and siding damage to a metal shed near Ripplinger (Clark County). The wind gusts knocked down numerous trees and power lines over southwest and central Wisconsin.				
JUNEAU COUNTY --- 1.9 ESE WONEWOC 3 CASTLES AR [43.66, -90.19], 4.4 E WONEWOC [43.65, -90.14]				
	07/05/11 15:06 CST		0	Hail (1.00 in)
	07/05/11 15:08 CST		0	Source: Public
Hail ranging in size from dime to one inch fell east of Wonewoc. At one location four miles east of Wonewoc, the hail was reported to have lasted up to 15 minutes and accumulated to a depth of 1 to 2 inches. Estimated wind gusts of 50 to 60 mph also occurred.				
TAYLOR COUNTY --- 7.3 WNW MAPLEHURST [45.10, -90.52]				
	07/05/11 19:31 CST		0.50K	Thunderstorm Wind (EG 56 kt)
	07/05/11 19:31 CST		0	Source: Public
Trees were blown down near Larson Drive west-southwest of Medford.				
TAYLOR COUNTY --- 3.4 S LUBLIN [45.03, -90.71]				
	07/05/11 19:45 CST		0.20K	Thunderstorm Wind (EG 56 kt)
	07/05/11 19:45 CST		0	Source: Public
Two to four inch diameter tree branches were blown down and the power was out on County Line Road.				
A weak cold front pushed southeast into northern Iowa and northern Illinois during the late afternoon and evening hours of July 5th triggering severe thunderstorms. Large hail and damaging winds were the main impact.				
MONROE COUNTY --- 0.2 SSW LEON [43.88, -90.83]				
	07/11/11 01:24 CST		2K	Thunderstorm Wind (EG 56 kt)
	07/11/11 01:24 CST		0	Source: Law Enforcement
A few 18 inch diameter trees were blown down in Leon.				
JUNEAU COUNTY --- NECEDAH [44.03, -90.08], 1.8 NW NECEDAH HORNSBURG AR [43.99, -90.03]				
	07/11/11 02:00 CST		5K	Thunderstorm Wind (EG 56 kt)
	07/11/11 02:01 CST		0	Source: Law Enforcement
Trees were blown down in Necedah and the township of Germantown.				
ADAMS COUNTY --- 3.8 S BROOKS [43.76, -89.63]				

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/11/11 02:25 CST		2K	Thunderstorm Wind (EG 56 kt)
	07/11/11 02:25 CST		0	Source: Law Enforcement

Trees were blown down in the township of Jackson.

GRANT COUNTY --- KIELER [42.58, -90.60], CUBA CITY [42.60, -90.43]

	07/11/11 04:59 CST		0.46M	Thunderstorm Wind (EG 65 kt)
	07/11/11 05:06 CST		0.20M	Source: Newspaper

High winds from severe thunderstorms created considerable damage from Keiler and Dickeyville east to Cuba City and Hazel Green. Farm buildings were damaged and corn was flattened along County Roads H and Z. Between Keiler and Cuba City, numerous homes had siding and shingles blown off or were damaged by falling trees. More than three dozen trees were blown down, a barn was destroyed and several buildings received minor damage along Banfield and Indian Creek Roads. In Dickeyville, a roof was torn off, a side wall of a building knocked down and trees were uprooted or snapped off. North of Hazel Green, a machine shed was destroyed. Numerous power lines were blown down causing power outages over a large portion of southern Grant County.

A cold front pushed into eastern Minnesota and northern Iowa in the early morning hours of July 11th leading to severe thunderstorms. The severe thunderstorms knocked down trees, flattened corn and damaged a roof at a business in Dickeyville (Grant County).

TREMPEALEAU COUNTY --- 2.5 NW WHITEHALL [44.40, -91.36]

	07/15/11 10:50 CST		35K	Lightning
	07/15/11 13:00 CST		0	Source: Newspaper

Lightning struck a tree and started a fire in the attic of the nearby house. The damage from the fire was limited to the attic, but smoke damage to bedrooms on the upper level made the house uninhabitable until repairs were made. Firefighters were on the scene for about 2 hours.

Lightning from mid-morning thunderstorms started a house fire at a rural Whitehall (Trempealeau County) residence. The house was uninhabitable as a result of the fire and the resulting smoke damage.

CLARK COUNTY --- 2.1 SSW GLOBE [44.62, -90.68]

	07/16/11 07:00 CST		0	Heavy Rain
	07/16/11 09:30 CST		3K	Source: Trained Spotter

A total of 3.50 inches of rain fell in two and a half hour. This heavy rain produced some standing water in a pasture.

CLARK COUNTY --- 3.2 NW SIDNEY [44.58, -90.70], 5.8 E HUMBIRD [44.54, -90.78], 5.8 E HUMBIRD [44.54, -90.78], 4.3 NW SIDNEY [44.59, -90.72]

	07/16/11 12:45 CST		10K	Flood (due to Heavy Rain)
	07/16/11 14:45 CST		0	Source: Law Enforcement

Locally heavy rain washed out at least two culverts in the vicinity of Snyder Lake County Park west of Neillsville.

A small complex of thunderstorms developed over eastern Minnesota early in the morning of the 16th. These storms then moved into central Wisconsin during the late morning dropping some locally heavy rain. This heavy rain produced some localized flooding that washed out a couple of culverts in the vicinity of Snyder Lake (Clark County).

(WI-Z017) TAYLOR, (WI-Z029) CLARK, (WI-Z032) BUFFALO, (WI-Z033) TREMPEALEAU, (WI-Z034) JACKSON, (WI-Z041) LA CROSSE, (WI-Z042) MONROE, (WI-Z043) JUNEAU, (WI-Z044) ADAMS, (WI-Z053) VERNON, (WI-Z054) CRAWFORD, (WI-Z055) RICHLAND, (WI-Z061) GRANT

	07/17/11 10:00 CST	2	76K	Excessive Heat
	07/20/11 18:00 CST	8	0	

Direct Fatalities: F65PH, F82MH

Warm and humid air invaded western Wisconsin on July 17th and remained in place for the next three days. Two people perished as a result of the excessive heat and at least eight other were treated for heat related illnesses. During this stretch, afternoon heat indices routinely topped out between 110 and 120. Little relief occurred at night, as overnight lows remained in the 70s. Most of the counties across western Wisconsin opened cooling centers.

JACKSON COUNTY --- NORTHFIELD [44.47, -91.10]

	07/18/11 05:45 CST		1K	Thunderstorm Wind (EG 50 kt)
	07/18/11 05:45 CST		0	Source: Law Enforcement

A few large trees were blown down that blocked a road near Northfield.

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
JACKSON COUNTY --- 0.6 SSE DISCO [44.26, -90.99]				
	07/18/11 06:56 CST		2K	Thunderstorm Wind (EG 50 kt)
	07/18/11 06:56 CST		0	Source: Newspaper
Several trees were blown down on a farm east of Disco.				
JACKSON COUNTY --- 3.9 WNW IRVING [44.20, -90.97]				
	07/18/11 07:17 CST		7K	Thunderstorm Wind (EG 50 kt)
	07/18/11 07:17 CST		0	Source: Newspaper
Farms in the rural Town of Irving lost some livestock sheds and had outbuildings damaged. Several fields of corn were also flattened but it was thought that most of the corn would recover with little crop loss.				
JACKSON COUNTY --- 0.7 N IRVING [44.19, -90.90]				
	07/18/11 07:19 CST		2K	Thunderstorm Wind (EG 50 kt)
	07/18/11 07:19 CST		0	Source: Law Enforcement
Numerous trees were blown down near Irving.				
JACKSON COUNTY --- 1.8 S FALL HALL GLEN [44.19, -90.83]				
	07/18/11 07:21 CST		2K	Thunderstorm Wind (EG 50 kt)
	07/18/11 07:21 CST		0	Source: Newspaper
A cabin at the Wisconsin Christian Youth Camp was damaged by strong thunderstorm winds.				
TREMPEALEAU COUNTY --- BLAIR [44.30, -91.23], 0.1 N BLAIR [44.30, -91.23], 0.2 W BLAIR [44.30, -91.23], 0.3 SW BLAIR [44.30, -91.23]				
	07/18/11 07:30 CST		0	Flood (due to Heavy Rain)
	07/18/11 08:30 CST		0	Source: Public
Heavy rain caused water to cover State Highway 95 and County Road S for a short period.				
MONROE COUNTY --- 5.9 NNE CATARACT [44.16, -90.79]				
	07/18/11 07:32 CST		50K	Thunderstorm Wind (EG 55 kt)
	07/18/11 07:32 CST		0	Source: Emergency Manager
A barn was shifted about 10 inches off its foundation, a large hay shed had the roof and three walls ripped off and farm trailers were moved or flipped by the strong winds at a dairy farm. Also, numerous trees were blown down along Amber Road.				
JACKSON COUNTY --- 0.9 SE FRANKLIN [44.21, -91.11]				
	07/18/11 08:05 CST		1K	Thunderstorm Wind (EG 50 kt)
	07/18/11 08:05 CST		0	Source: Law Enforcement
A road was blocked in Franklin by a few large trees that were blown down.				
TREMPEALEAU COUNTY --- 3.8 NNW IDUNA [44.25, -91.35]				
	07/18/11 08:06 CST		0	Hail (1.75 in)
	07/18/11 08:06 CST		0	Source: Law Enforcement
Golf ball sized hail fell halfway between Arcadia and Blair.				
JACKSON COUNTY --- 1.3 NE TAYLOR HALVERSON ARP [44.29, -91.08], 1.2 NNE TAYLOR HALVERSON ARP [44.29, -91.09], 0.9 S TAYLOR HALVERSON ARP [44.27, -91.10], 1.1 S TAYLOR HALVERSON ARP [44.26, -91.10], 2.5 E FRANKLIN [44.22, -91.07], 2.7 E FRANKLIN [44.23, -91.07]				
	07/18/11 09:30 CST		10K	Flash Flood (due to Heavy Rain)
	07/18/11 11:30 CST		0	Source: Trained Spotter
Between 2.5 and 4 inches of rain fell in and around Taylor. This produced some flash flooding along Skutley Creek that washed out portions of Company Road. Flooding also occurred along French Creek causing water to go over French Creek Road. A culvert failed, washing out a portion of Lien Road near the intersection with County Road C. The high water forced the closure of three roads in the southeast part of the county.				
On July 18th, a nearly stationary cold front extended across northern Wisconsin into central Minnesota. Not long after sunrise, a small complex of thunderstorms developed over eastern Minnesota ahead of the cold front. As these storms move southeast into western Wisconsin they produced large hail, damaging winds and localized flooding over parts of Trempealeau, Jackson and Monroe Counties.				

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
CLARK COUNTY --- 4.0 S OWEN [44.89, -90.57]				
	07/18/11 15:45 CST		0	Funnel Cloud
	07/18/11 15:49 CST		0	Source: Law Enforcement
CLARK COUNTY --- 3.0 W GREENWOOD [44.77, -90.66]				
	07/18/11 16:05 CST		0	Funnel Cloud
	07/18/11 16:05 CST		0	Source: Law Enforcement
Spotted near County Road MM west of Greenwood from a distance.				
A few stronger thunderstorms formed brief funnel clouds over parts of Clark County but there were no reports of touchdowns or damage.				
CLARK COUNTY --- 16.6 NNW CLARK [45.26, -90.75]				
	07/19/11 18:00 CST		0	Heavy Rain
	07/19/11 22:00 CST		0	Source: Public
A total of four inches of rain fell between 6 p.m. and 10 p.m. CST.				
TAYLOR COUNTY --- 1.5 SSW GILMAN [45.15, -90.81]				
	07/19/11 18:17 CST		1K	Thunderstorm Wind (EG 52 kt)
	07/19/11 18:17 CST		0	Source: Trained Spotter
A severe thunderstorm produced an estimated wind gust of 60 mph blowing down trees along Polley Road west of State Highway 73.				
TAYLOR COUNTY --- 2.0 NE LUBLIN [45.10, -90.69]				
	07/19/11 18:30 CST		0	Heavy Rain
	07/19/11 21:15 CST		0	Source: Mesonet
The automated weather mesonet observing equipment measured a total of 4.56 inches of rain between 6:30 p.m. and 9:15 p.m. CST. Of this total, 3.32 inches fell in one hour between 7:14 p.m. and 8:14 p.m.				
CLARK COUNTY --- ABBOTSFORD [44.95, -90.32]				
	07/19/11 18:45 CST		0	Heavy Rain
	07/19/11 20:03 CST		0	Source: Broadcast Media
In less than an hour and a half, thunderstorms dumped 3.50 inches of rain on Abbotsford.				
TAYLOR COUNTY --- 2.9 NE LUBLIN [45.11, -90.68]				
	07/19/11 19:07 CST		0	Thunderstorm Wind (MG 53 kt)
	07/19/11 19:07 CST		0	Source: Mesonet
An automated mesonet weather observing station measured a wind gust of 61 mph.				
CLARK COUNTY --- 1.7 NW RIPLINGER [44.85, -90.42]				
	07/19/11 19:10 CST		0	Funnel Cloud
	07/19/11 19:10 CST		0	Source: Public
A funnel cloud was visible from a thunderstorm passing through the area.				
TAYLOR COUNTY --- 1.2 SW GILMAN [45.16, -90.82]				
	07/19/11 19:15 CST		0	Hail (0.75 in)
	07/19/11 19:15 CST		0	Source: Trained Spotter
TAYLOR COUNTY --- GILMAN [45.17, -90.80], 1.0 W GILMAN [45.17, -90.82], 1.5 SW GILMAN [45.16, -90.82], 1.0 S GILMAN [45.16, -90.80]				
	07/19/11 19:30 CST		0	Flood (due to Heavy Rain)
	07/19/11 21:30 CST		0	Source: Public
Locally heavy rain produced some standing water that covered some roads in Gilman.				
CLARK COUNTY --- 0.9 NE VEEFKIND [44.71, -90.37]				

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/19/11 19:33 CST		0	Thunderstorm Wind (EG 52 kt)
	07/19/11 19:33 CST		0	Source: Trained Spotter
A severe thunderstorm produced an estimated wind gust of 60 mph near Veefkind.				
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CLARK COUNTY --- 0.7 S THORP [44.96, -90.80]	07/19/11 19:55 CST		0	Thunderstorm Wind (EG 52 kt)
	07/19/11 19:55 CST		0	Source: Amateur Radio
A severe thunderstorm produced an estimated wind gust of 60 mph in Thorp.				
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CLARK COUNTY --- 3.2 N THORP [45.02, -90.80]	07/19/11 20:02 CST		0.80K	Thunderstorm Wind (EG 50 kt)
	07/19/11 20:02 CST		0	Source: Amateur Radio
Trees were toppled near the intersection of State Highway 73 and Hickory Road.				
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CLARK COUNTY --- CHRISTIE [44.65, -90.60]	07/19/11 20:40 CST		0	Thunderstorm Wind (EG 52 kt)
	07/19/11 20:40 CST		0	Source: Trained Spotter
A severe thunderstorm produced an estimated wind gust of 60 mph.				
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CLARK COUNTY --- 2.1 NNE DORCHESTER [45.03, -90.32], 3.8 SSE CURTISS [44.78, -90.32], 8.6 SSW EIDSVOLD [44.83, -90.92], 1.2 NW JUNCTION [45.03, -90.92]	07/19/11 21:00 CST		15K	Flash Flood (due to Heavy Rain)
	07/20/11 00:00 CST		0	Source: Emergency Manager
Locally heavy rains across the northern portions of Clark County washed out a total of 11 roads. Most of these washouts were minor and were repaired by the end of July 20th.				
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JACKSON COUNTY --- 2.4 W NORTH BRANCH [44.45, -91.05]	07/19/11 21:10 CST		2K	Thunderstorm Wind (EG 50 kt)
	07/19/11 21:10 CST		0	Source: Emergency Manager
A number of trees were blown down in the vicinity of Northfield.				
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CLARK COUNTY --- 0.4 NNW UNITY [44.86, -90.32], 0.5 SSE UNITY [44.84, -90.32], 0.5 S UNITY [44.84, -90.32], 0.5 SW UNITY [44.85, -90.33], 0.6 NW UNITY [44.86, -90.33]	07/19/11 21:20 CST		0	Flood (due to Heavy Rain)
	07/19/11 23:30 CST		0	Source: Law Enforcement
Rising water along the Little Eau Pleine River threatened a home in Unity.				
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JACKSON COUNTY --- 3.1 SSE MERRILLAN [44.41, -90.82]	07/19/11 21:25 CST		0.40K	Thunderstorm Wind (EG 50 kt)
	07/19/11 21:25 CST		0	Source: Emergency Manager
A couple of trees were blown down south of Merrilan near Garage Road.				
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ADAMS COUNTY --- 1.8 ESE BROOKS [43.81, -89.60]	07/19/11 22:25 CST		2K	Thunderstorm Wind (EG 50 kt)
	07/19/11 22:25 CST		0	Source: Public
About 250 Boy Scouts and staff were moved to a shelter as a severe thunderstorm moved through Camp Freeland Leslie along the Adams and Marquette County line. The storm damaged several campsites where tree limbs were blown down and portable dining centers and tents were toppled and damaged.				
A stationary front was draped across the central portions of Minnesota and Wisconsin. Thunderstorms developed along this front during the evening of July 19th and produced numerous reports of high winds. Some locally heavy rain also occurred which created a little bit of flooding.				
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JACKSON COUNTY --- 1.6 ENE ALMA CENTER [44.44, -90.89]				

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/23/11 23:53 CST		0.20K	Thunderstorm Wind (EG 50 kt)
	07/23/11 23:53 CST		0	Source: Law Enforcement
A few trees were blown down across State Highway 95 just east of Alma Center.				
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JACKSON COUNTY --- 0.5 W MERRILLAN [44.45, -90.84]				
	07/23/11 23:58 CST		2K	Thunderstorm Wind (EG 50 kt)
	07/23/11 23:58 CST		0	Source: Law Enforcement
Trees and power lines were blown down in and around Merrillan.				
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CLARK COUNTY --- 1.0 W LAKE ARBUTUS [44.43, -90.72]				
	07/24/11 00:01 CST		5K	Thunderstorm Wind (EG 50 kt)
	07/24/11 00:01 CST		0	Source: Law Enforcement
Several trees were blown down in a campground at Lake Arbutus. Some of the trees fell on tents but no injuries occurred. Another tree went down across a road near the intersection of County Road J and Bush Road.				
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MONROE COUNTY --- 1.5 NNW MC COY AAF ARPT [43.99, -90.74]				
	07/24/11 00:25 CST		1.40K	Thunderstorm Wind (EG 50 kt)
	07/24/11 00:25 CST		0	Source: Law Enforcement
Trees were blown down in the Pine View Campground.				
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MONROE COUNTY --- 0.7 N TOMAH [43.99, -90.50]				
	07/24/11 00:34 CST		2.30K	Thunderstorm Wind (EG 50 kt)
	07/24/11 00:34 CST		0	Source: Law Enforcement
Trees were blown down and at least one fell onto a power line causing a small fire.				
<p>A complex of thunderstorms developed over east central Minnesota into northwest Wisconsin along a stationary front during the evening of July 23rd. As these storms moved southeast into the central portions of Wisconsin, they intensified and created damaging wind gusts across portions of Clark, Jackson and Monroe Counties during the overnight hours of July 24th.</p>				
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GRANT COUNTY --- 0.6 WNW SINSINAWA [42.52, -90.54]				
	07/27/11 17:30 CST		0	Heavy Rain
	07/28/11 06:00 CST		0	Source: COOP Observer
The COOP observer at the Sinsinawa Mound Complex measured a total of 10.11 inches of rain ending at 6:00 a.m.				
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GRANT COUNTY --- 2.0 NW SINSINAWA [42.54, -90.56]				
	07/27/11 18:07 CST		0.40K	Thunderstorm Wind (EG 52 kt)
	07/27/11 18:07 CST		0	Source: Trained Spotter
Trees were blown down in a rural area.				
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GRANT COUNTY --- 2.0 NW SINSINAWA [42.54, -90.56]				
	07/27/11 18:07 CST		5K	Lightning
	07/27/11 18:07 CST		0	Source: Law Enforcement
Lightning struck a house causing a small fire.				
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GRANT COUNTY --- 0.5 W HAZEL GREEN [42.53, -90.44]				
	07/27/11 18:15 CST		0	Hail (0.88 in)
	07/27/11 18:15 CST		0	Source: Trained Spotter
Nickel sized hail fell for 5 to 10 minutes.				
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GRANT COUNTY --- 0.2 NW HAZEL GREEN [42.53, -90.43], 0.3 NE HAZEL GREEN [42.53, -90.43], 0.4 NNE HAZEL GREEN [42.53, -90.43], 0.3 NW HAZEL GREEN [42.53, -90.43]				
	07/27/11 20:30 CST		0	Flood (due to Heavy Rain)
	07/27/11 22:30 CST		0	Source: Public

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Heavy rain in Hazel Green caused water to cover portions of County Road W in the eastern part of town.				
GRANT COUNTY --- 1.8 SW HAZEL GREEN [42.51, -90.45], 2.2 SW HAZEL GREEN [42.51, -90.46], 2.1 ESE SINSINAWA [42.51, -90.49], 2.2 ESE SINSINAWA [42.51, -90.49], 1.9 SW HAZEL GREEN [42.51, -90.45]				
	07/28/11 02:30 CST		2K	Flash Flood (due to Heavy Rain)
	07/28/11 08:30 CST		0	Source: Law Enforcement

With up to 10 inches of rain in the area, mud and debris covered portions of Sinsinawa Road southwest of Hazel Green forcing local officials to close the road.

Several rounds of thunderstorms developed north of a warm front and trained across portions of northeast Iowa into Southwest Wisconsin during the evening of July 27th into the early morning hours of the 28th. The highest reported rainfall total from these storms was 10.11 inches in Sinsinawa (Grant County). The heavy rain did produce some minor flooding as area streams and rivers came out of their banks for a short period.

BUFFALO COUNTY --- 2.7 WNW BLUFF SIDING [44.09, -91.67]				
	07/28/11 14:00 CST		0	Heavy Rain
	07/28/11 16:00 CST		0	Source: Other Federal Agency

A total of 5.70 inches of rain fell in a two hour period at the Mississippi River Lock and Dam 5A near Fountain City.

TREMPEALEAU COUNTY --- 1.0 S STRUM [44.54, -91.38], 2.6 SSE STRUM VIKING FLD ARP [44.51, -91.36], 3.0 SSE OSSEO [44.54, -91.20], 2.1 SSE OSSEO [44.55, -91.20]				
	07/28/11 16:10 CST		0	Flood (due to Heavy Rain)
	07/28/11 18:30 CST		0	Source: Law Enforcement

Heavy rain produced standing water that covered parts of County Highways D and OO south of Strum and County Highway B and Call Road south of Osseo. The roads were closed until the water receded.

JACKSON COUNTY --- 1.9 ENE VAUDREUIL [44.31, -90.85], 2.3 N PLEASANT VIEW [44.30, -90.83], 2.1 W WINNEBAGO MISSION [44.33, -90.82], 2.6 W WINNEBAGO MISSION [44.33, -90.83]				
	07/28/11 17:25 CST		0	Flood (due to Heavy Rain)
	07/28/11 19:30 CST		0	Source: Law Enforcement

Heavy rains produced some standing water over U.S. Highway 12 and State Highway 27 northeast of Black River Falls.

Thunderstorms developed along and north of a nearly stationary warm front over western Wisconsin during the afternoon of July 28th. These storms were very slow moving and were excellent rain producers dumping between 4 and 6 inches of rain on some locations. The highest reported rainfall total was 5.70 inches at Mississippi River Lock and Dam 5A near Fountain City (Buffalo County).

TAYLOR COUNTY --- MEDFORD [45.13, -90.35]				
	07/30/11 12:54 CST		0.50K	Thunderstorm Wind (EG 50 kt)
	07/30/11 12:54 CST		0	Source: Law Enforcement

A carnival tent was blown over at the Taylor County Fair.

A small complex of thunderstorms developed north of a stationary front over north central Minnesota during the mid morning of July 30th. As these storms moved into north central Wisconsin, they produced some high winds that damaged a carnival tent at the Taylor County Fair in Medford (Taylor County).

JACKSON COUNTY --- 0.9 NE ALMA CENTER [44.44, -90.91]				
	07/31/11 15:55 CST		0	Hail (1.00 in)
	07/31/11 15:55 CST		0	Source: Public

JACKSON COUNTY --- 0.5 W MERRILLAN [44.45, -90.84]				
	07/31/11 16:10 CST		0	Hail (0.75 in)
	07/31/11 16:10 CST		0	Source: Law Enforcement

JACKSON COUNTY --- 0.9 NE ALMA CENTER [44.44, -90.91]				
	07/31/11 16:25 CST		0	Funnel Cloud
	07/31/11 16:25 CST		0	Source: Law Enforcement

JACKSON COUNTY --- HATFIELD [44.42, -90.73]

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/31/11 16:25 CST		0	Hail (0.75 in)
	07/31/11 16:25 CST		0	Source: Trained Spotter

Scattered thunderstorms developed during the afternoon of July of 31st ahead of a cold front that extended from northern Wisconsin into southern Minnesota. Some of these storms became strong enough to produce some hail and a funnel cloud near Alma Center (Jackson County).