



National Weather Service

Storm Data and Unusual Weather Phenomena



January 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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WISCONSIN, Southeast

WIZ065>066-070>072 **Waukesha - Milwaukee - Walworth - Racine - Kenosha**

03	2030CST				0	0			Dense Fog
	2359CST								

Dense fog developed over the southeast corner of Wisconsin during the evening hours, resulted in delays or cancellation of airline flights from Milwaukee's Mitchell Field (Milwaukee Co.), and other local airports. Visibilities were reduced to 1/8 to 1/4 mile. The dense fog was a result of a moist south-southeast flow off of Lake Michigan with air temperatures and dewpoints of 38 to 40 degrees F.

WIZ070>072 **Walworth - Racine - Kenosha**

20	1930CST				0	0			Heavy Snow
21	0300CST								

Heavy snow fell over the southeast corner of Wisconsin during the evening and overnight hours. Maximum snow amounts were 8.5 inches in Genoa City (Walworth Co.), 7.0 inches in Kenosha (Kenosha Co.), and 6.1 to 6.5 inches over southern Racine County from Burlington to Union Grove to south of the city of Racine. Numerous vehicle accidents were reported and many vehicles slid into roadside ditches. Accumulating snow started about 1600CST on the 20th when visibilities fell below 2 miles, and around 1900CST on the 20th, visibilities briefly dropped to 1/4 to 1/2 mile in moderate to heavy snowfall intensity. Over the remainder of south-central and southeast Wisconsin, generally 3 to 5 inches fell. Greater snowfall totals were observed in the northern Chicago suburbs where 10 to 12 inches were measured. The responsible low pressure tracked east-northeast across central Illinois.

WIZ046>047-051>052-056>060-062>072 **Marquette - Green Lake - Fond Du Lac - Sheboygan - Sauk - Columbia - Dodge - Washington - Ozaukee - Iowa - Dane - Jefferson - Waukesha - Milwaukee - Lafayette - Green - Rock - Walworth - Racine - Kenosha**

24	0900CST				0	0	100K		Strong Wind (EG39)
	2100CST								

Strong post, cold-frontal northwest winds, gusting to 39 to 44 knots (45 to 51 mph), affected south-central and southeast Wisconsin. Scattered power outages were noted due to broken tree branches hitting power-lines. Some of the broken tree branches littered road surfaces, and the usual garbage cans across the street idea prevailed.



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Storm Data and Unusual Weather Phenomena



February 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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WISCONSIN, Southeast

WIZ046>047-051>052-056>060-062>069 **Marquette - Green Lake - Fond Du Lac - Sheboygan - Sauk - Columbia - Dodge - Washington - Ozaukee - Iowa - Dane - Jefferson - Waukesha - Milwaukee - Lafayette - Green - Rock**

16	0900CST				0	0			Winter Storm
	1800CST								

The only widespread winter storm to affect south-central and southeast Wisconsin, during the 2005-06 winter months of Dec-Jan-Feb, deposited heavy snowfalls of 6 to 14 inches and generated northeast to north winds of 15 to 20 knots with gusts to 35 to 39 knots (40 to 45 mph). The accumulating snow fell in two rounds - during the evening hours of February 15th and in the morning and afternoon hours of February 16th. Convective bands on the 16th (with thunder) were responsible for a narrow band of heavy snow (accumulations around 12 inches) from Argyle (Lafayette Co.) northeast through the Cottage Grove area of eastern Dane County to the city of Sheboygan (Sheboygan Co.). Hundreds of vehicle accidents were reported via news channels, many schools were closed, and many airplane flights were delayed or cancelled. Some specific snowfall totals include 14 inches in Sheboygan and Saukville (Ozaukee Co.), 13.5 inches in Cottage Grove, 13.0 inches in West Bend (Washington Co.), Middleton (Dane Co.), and Arygle, an estimated 12 to 13 inches in northwestern Green Co., 11.4 inches in Lake Mills (Jefferson Co.), 11.3 inches just northeast of Ripon (Fond du Lac Co.), an estimated 10 to 11 inches in northeastern Green Lake County, 10.7 inches in Reedsburg (Sauk Co.), 10.0 inches in Evansville (Rock Co.), an estimated 9 inches in northeastern Marquette County, 8.9 inches in Lodi (Columbia Co.), an estimated 8 inches in far northwestern Milwaukee County, 7.8 inches in Oconomowoc (Waukesha Co.), and 7 to 8 inches in southern Iowa County. Convective clouds on the 16th deposited 1 to 2 inches of sleet (mixed with some new snow) in a narrow band from Clinton (Rock Co.) northeast to the Palmyra area (Jefferson Co.) to New Berlin (Waukesha Co.) to Shorewood (Milwaukee Co.). This was on top of about 3 inches of snow that fell in the first round of snow that occurred during the evening hours of the 15th. A total of only 0.5 to 3 inches of snow fell along and southeast of a line from Delavan in Walworth County to downtown Milwaukee (Milwaukee Co.), where rain mixed in with the snow. During the height of the storm on the 16th, visibilities were briefly reduced to 1/4 mile where thundersnow was reported. Hourly snowfall rates with some of the thundersnow reached 2 to 4 inches per hour locally. The responsible low pressure moved northeast through extreme northern Indiana.

WIZ046>047-051>052-056>060-062>072 **Marquette - Green Lake - Fond Du Lac - Sheboygan - Sauk - Columbia - Dodge - Washington - Ozaukee - Iowa - Dane - Jefferson - Waukesha - Milwaukee - Lafayette - Green - Rock - Walworth - Racine - Kenosha**

17	1800CST				0	0			Cold/Wind Chill
18	1200CST								

Very cold wind chill values affected all of south-central and southeast Wisconsin during the evening hours of February 17th through the morning hours of February 18th, in the wake of the winter storm on February 15-16th. After daytime maximum readings mostly in the teens over south-central Wisconsin to the mid 20s over the southeast corner on the 17th, temperatures dropped overnight. Lowest readings during the early morning hours on the 18th ranged from -22F about 7 miles northwest of Poynette (Columbia Co.) to -10F at Racine (Racine Co.). Brisk west to northwest winds gusted to 15 to 20 knots (17 to 23 mph). Wind chills dropped to -20 to -34, however for only about 1 hour, they dropped to -35 to -38 in scattered spots (-38 at Sheboygan in Sheboygan County). Several outdoor activities and other social functions were cancelled.

WIZ046>047-051>052-056>060-062>072 **Marquette - Green Lake - Fond Du Lac - Sheboygan - Sauk - Columbia - Dodge - Washington - Ozaukee - Iowa - Dane - Jefferson - Waukesha - Milwaukee - Lafayette - Green - Rock - Walworth - Racine - Kenosha**

18	1800CST				0	0			Cold/Wind Chill
19	0900CST								

This period of low wind chill values was the second of two rounds of low wind chill values on the heels of a widespread, winter storm which dumped 6 to 14 inches of snow across most of south-central and southeast Wisconsin on February 15-16, 2006. Wind chills dropped to -20 to -30 during the overnight hours, thanks to temperatures that dropped into the single digits below zero and west to northwest winds of 10 to 15 knots (11 to 17 mph). Maximum daytime temperatures on the 18th ranged from -1F at both



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WISCONSIN, Southeast

Jackson and the NWS Forecast Office near Sullivan (Jefferson Co.) to 10 above at Portage (Columbia Co.), which proved to be the coldest day of the 2005-06 winter season. Overnight lows into the early morning hours of the 19th ranged from -22 F at Argyle (Lafayette Co.) to -9 at Milwaukee's Mitchell Field (Milwaukee Co.). A number of evening activities were cancelled due to the low wind chill values.

WISCONSIN, Southeast

WIZ056-062>063-067>069 Sauk - Iowa - Dane - Lafayette - Green - Rock

06	0200CST 0900CST	0	0	Dense Fog
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Dense fog developed overnight and lowered visibilities to 1/8 to 1/4 mile. Morning commuters had to slow down, and area newspapers reported several vehicle accidents. The dense fog was the result of light winds and plenty of low-level moisture due to some snowmelt in the wake of 3 to 6 inches that fell the previous day.

WIZ062-067

Iowa - Lafayette

08	0600CST 0900CST	0	0	Dense Fog
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Dense patches of fog caused a multi-vehicle pileup about 2 miles east of Ridgeway (Iowa Co.) at 745 AM CST. One woman was killed as she collided with a semitrailer pulling onto Highway 18-151 at about 0745CST when visibilities were probably only zero to perhaps 50 yards. A few minutes later, a charter bus plowed into the semitrailer. Twelve people on the bus sustained minor injuries. Eventually this multi-vehicle accident would include one bus, three semitrailers, and four automobiles. The dense fog also caused 10 additional crashes within 2 miles of the initial crash scene. Dense fog patches also occurred over Lafayette County. The one death and 12 injuries are considered indirectly-related to the dense fog, consequently these numbers do not appear in the header strip above.

WIZ046>047-051>052-056>060-062>072

Marquette - Green Lake - Fond Du Lac - Sheboygan - Sauk - Columbia - Dodge - Washington - Ozaukee - Iowa - Dane - Jefferson - Waukesha - Milwaukee - Lafayette - Green - Rock - Walworth - Racine - Kenosha

09	0200CST 1200CST	0	0	Dense Fog
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Dense fog developed overnight across all of south-central and southeast Wisconsin. Visibilities were reduced to 1/8 to 1/4 mile. Newspapers reported several vehicle accidents, and commercial airplane flights were delayed or cancelled at the major airports. The dense fog was the result of light rain and snowmelt which occurred just prior to the dense fog development.

Walworth County

Lake Geneva	11 1302CST	0	0	Hail(0.75)
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Two vehicle accidents occurred during hail storm due to hail accumulations creating slippery road surfaces

Dane County

Madison	11 1943CST	0	0	Hail(0.75)
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Dane County

1 E Middleton	11 1945CST	0	0	5K Hail(1.00)
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Several vehicles were dented by the hail.

Dane County

Middleton	11 1950CST	0	0	Hail(0.88)
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Dane County

1 W Fitchburg	11 1959CST	0	0	Hail(0.75)
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Fond Du Lac County

Alto	11 2040CST	0	0	Hail(0.75)
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The first round of scattered storms, to affect south-central and southeast Wisconsin on March 11th, occurred during the early afternoon hours. Minor instability and high wind shear caused one storm to briefly attain severe levels (large hail) as it moved northeast at 43 kts (50 mph) or more through Walworth County. The second round of severe weather on March 11th was associated



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March 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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WISCONSIN, Southeast

with a cold front that pushed through during the evening hours. Scattered thunderstorms redeveloped during the evening hours and pulsed to severe levels to produce several large hail reports, mainly across Rock, Dane, and Fond du Lac counties.

Rock County

Beloit

12	2210CST				0	0			Hail(0.88)
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The northern fringes of a potent system that produced one of the most significant tornado outbreaks in U.S. history brought widespread rain and thunderstorms to south central and southeast Wisconsin during the evening hours. One storm briefly produced Nickel sized hail (.88 inches) in Beloit (Rock Co.).

Rock County

Beloit to 5 NE Clinton

13	0000CST 0200CST				0	0	20K		Flash Flood
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Walworth County

Delavan to Elkhorn

13	0100CST 0300CST				0	0	40K		Flash Flood
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During the late evening of Sunday, March 12, flash floods occurred over a couple southern Wisconsin counties as a complex of thunderstorms producing torrential rainfalls moved across the area. Several thunderstorms trained over the same locations in parts of Rock County and Walworth County. Rainfall totals ranged from 1 to locally 4 inches across portions of Rock and Walworth counties. Some NWS Co-op stations near these storms reported 2.90 inches at a location 6 miles northwest of Elkhorn (Walworth Co.), 3.65 inches in Delavan (Walworth Co.), and 3.95 inches in Clinton (Rock Co.). Scattered gravel shoulder washouts were reported from the Beloit area northeast to the Elkhorn area. In this area, roadside ditches overflowed and several roads were covered with water to a depth of 1 to 2 feet in spots. Water damage occurred at the Division of Motor Vehicles building on the south side of Elkhorn after a nearby drainage ditch overflowed. Several cars were stranded in the flood waters.

WIZ052-066-071>072

Sheboygan - Milwaukee - Racine - Kenosha

13	1000CST 1644CST				0	0			High Wind (MG56)
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A deep low pressure over Upper Michigan brought gusty, high winds in excess of 50 kts (58 mph) to four Wisconsin counties bordering Lake Michigan during the late morning to afternoon hours of March 13th. Maximum west-southwest gusts include 56 kts (64 mph) at a Milwaukee TV-6 school site in Kenosha (Kenosha Co.), 52 kts (60 mph) in Milwaukee (Milwaukee Co.), and 51 kts (59 mph) in the cities of Racine (Racine Co.), and Sheboygan (Sheboygan Co.). The usual reports of scattered power outages due to broken tree branches were received.

WIZ051-058>060-062>065-067>070

Fond Du Lac - Dodge - Washington - Ozaukee - Iowa - Dane - Jefferson - Waukesha - Lafayette - Green - Rock - Walworth

13	1000CST 1800CST				0	0	65K		Strong Wind (EG39)
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Strong, gusty west-southwest winds ranging up to 39 to 49 kts (45 to 57 mph) affected parts of south-central and southeast Wisconsin during the daytime hours of March 13th. These strong winds were associated with a deep low pressure over Upper Michigan. The usual reports of scattered power outages due to broken tree branches were received.

WIZ056-062>065-067>072 Sauk - Iowa - Dane - Jefferson - Waukesha - Lafayette - Green - Rock - Walworth - Racine - Kenosha

29	0400CST 0900CST				0	0			Dense Fog
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Dense fog developed overnight over parts of south-central and southeast Wisconsin, reducing visibilities to 1/8 to 1/4 mile. Several school systems delayed the start of classes a couple hours. Newspapers reported a few vehicle accidents, and commercial airplane traffic was delayed or cancelled. The dense fog resulted from clear skies and calm or light winds



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March 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

WISCONSIN, Southeast

WIZ051>052-058>060-063>072 **Fond Du Lac - Sheboygan - Dodge - Washington - Ozaukee - Dane - Jefferson - Waukesha - Milwaukee - Lafayette - Green - Rock - Walworth - Racine - Kenosha**

31	0200CST 1400CST	0	0	40K	Strong Wind (EG39)
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Strong, gusty west-southwest winds affected parts of south-central and southeast Wisconsin in the wake of a cold front. Maximum gusts peaked at 39 to 42 kts (45 to 48 mph). Scattered power outages were reported when broken tree branches hit power-lines.



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April 2006

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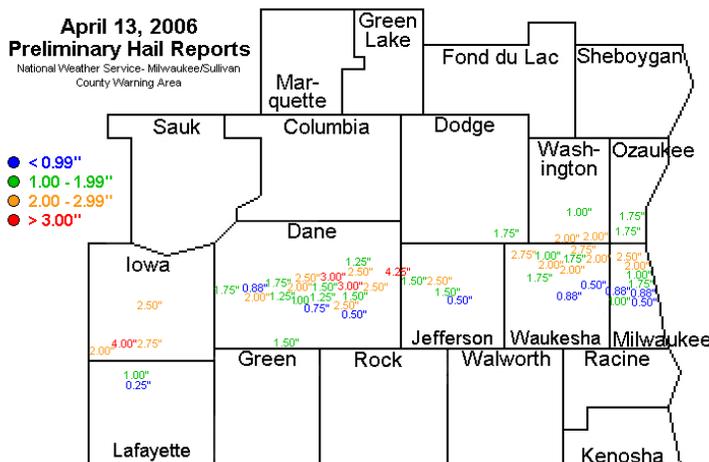
LAKE MICHIGAN

LMZ644 Port Washington to 3.5 E Mequon	Pt Washington To North Pt Lt Wi 13 2150CST 2200CST	0 0	Marine Hail (1.00)
LMZ645 Milwaukee Harbor to Oak Creek Power Plant	North Pt Lt To Wind Pt Wi 13 2210CST	0 0	Marine Hail (1.00)
LMZ643 Sheboygan to 5 S Sheboygan	Sheboygan To Pt Washington Wi 13 2342CST 2345CST	0 0	Marine Tstm Wind (EG56)

A short line of storms that bowed out and moved east-southeast through northern Sheboygan county continued out over the Lake Michigan waters. Building, tree, and power-line damage was noted all the way to the shoreline in Sheboygan County. The northward extension of this line also resulted in wind damage to the shoreline in Manitowoc County

WISCONSIN, Southeast

Green County 3.4 NW New Glarus	13 1944CST	0 0	Hail(1.00)
Iowa County Rewey	13 1944CST	0 0 4.4M	Hail(2.00)



The graphic above shows reports of hail sizes in their approximate location.

Iowa County 2 E Rewey	13 1945CST	0 0 4.4M	Hail(4.00)
Iowa County Mineral Pt	13 1953CST	0 0 4.4M	Hail(3.50)
Lafayette County 3 W Belmont	13 1955CST	0 0	Hail(1.00)
Lafayette County 9 N Darlington	13 1955CST	0 0 2.4M	Hail(2.00)
Green County 6.5 ENE Dayton	13 1959CST	0 0	Hail(1.00)



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<u>WISCONSIN, Southeast</u>									
Iowa County Dodgeville	13	2000CST			0	0	4.4M		Hail(2.50)
Iowa County 5 SW Ridgeway	13	2005CST			0	0	4.4M		Hail(3.00)
Lafayette County 5 NE Belmont	13	2005CST			0	0	2.4M		Hail(2.00)
Dane County 3 SE Blue Mounds	13	2015CST			0	0			Hail(1.75)
Dane County Mt Horeb	13	2018CST			0	0	5.5M		Hail(2.00)
Dane County 2 E Mt Horeb	13	2020CST			0	0			Hail(1.25)
Dane County 1.2 WNW Mt Horeb	13	2020CST			0	0			Hail(1.50)
Dane County 3 SW Verona	13	2027CST			0	0			Hail(0.75)
Dane County Verona	13	2028CST 2030CST			0	0			Hail(1.00)
Dane County Madison	13	2030CST 2040CST			0	0	5.5M		Hail(3.00)
Hail size ranged from 1.25 to 3.00 inches in diameter.									
Dane County 7 SW Madison	13	2030CST			0	0			Hail(1.25)
Dane County 3.3 SSW Madison	13	2030CST 2032CST			0	0	5.5M		Hail(2.00)
Dane County 2.3 W Madison	13	2032CST 2035CST			0	0	5.5M		Hail(1.75)





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					Killed	Injured	Property	Crops	

WISCONSIN, Southeast

A typical example of the tennis to softball size hailstones that fell over parts of south-central and southeast Wisconsin during the April 13, 2006 hailstorm episode.

Dane County									
1.3 WSW Shorewood Hill	13	2034CST 2039CST			0	0			Hail(1.50)
Dane County									
2.7 SW Madison to 2.7 E Madison	13	2036CST 2037CST			0	0	5.5M		Hail(2.50)
Reported near the UW Campus.									
Dane County									
2.3 S Oregon	13	2036CST			0	0			Hail(0.75)
Hail covered the ground 1 to 2 inches deep.									
Dane County									
1 SW Madison	13	2037CST			0	0	5.5M		Hail(1.75)
Dane County									
.5 NW Mc Farland	13	2038CST			0	0	5.5M		Hail(1.50)
Dane County									
1 NE Madison	13	2040CST			0	0			Hail(1.25)
Dane County									
.8 S Monona	13	2040CST 2046CST			0	0	5.5M		Hail(3.00)
Hail size ranged from 1.50 to 3.00 inches in diameter.									
Dane County									
Sun Prairie	13	2041CST			0	0			Hail(1.25)
Dane County									
.3 N Monona	13	2042CST			0	0	5.5M		Hail(2.50)
Dane County									
.5 S Mc Farland	13	2044CST			0	0			Hail(2.50)
Dane County									
Cottage Grove	13	2045CST			0	0	5.5M		Hail(3.00)
Dane County									
3.7 E Madison	13	2045CST			0	0	5.5M		Hail(3.00)
Dane County									
.1 SE Belleville	13	2048CST			0	0			Hail(1.50)
Jefferson County									
3 W Lake Mills	13	2055CST			0	0			Hail(2.50)
Jefferson County									
3 NW Lake Mills	13	2055CST			0	0	4.4M		Hail(4.25)



National Weather Service

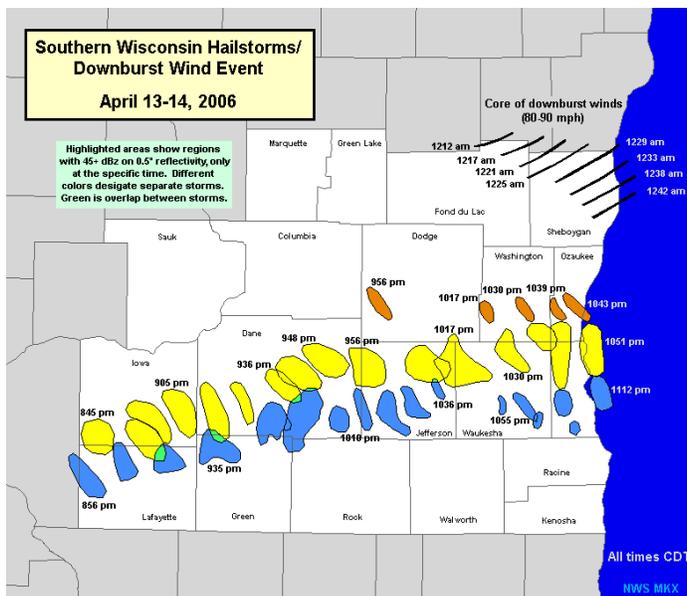
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WISCONSIN, Southeast



The graphic above shows the radar depiction of the location of each of the three main hailstorms at specific time intervals. The main core of the downburst winds per specified time intervals are also displayed for Fond du Lac and Sheboygan counties.

Jefferson County

Johnson Creek	13	2058CST 2108CST			0	0	4.4M		Hail(2.50)
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Hail sizes ranged from 1.00 to 2.50 inches in diameter.

Rock County

1.5 NW Union	13	2102CST			0	0	4.4M		Hail(1.75)
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Dane County

3 SW Rockdale	13	2115CST			0	0	5.5M		Hail(2.00)
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Dodge County

Ashippun	13	2117CST			0	0	3.2M		Hail(1.75)
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Washington County

St Lawrence	13	2122CST			0	0	2.0M		Hail(1.00)
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Jefferson County

Jefferson	13	2124CST			0	0			Hail(1.50)
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Waukesha County

5.8 NW Hartland	13	2125CST			0	0	4.4M		Hail(1.75)
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Waukesha County

Merton	13	2127CST			0	0	4.4M		Hail(2.00)
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Washington County

Jackson	13	2128CST			0	0	2.0M		Hail(1.00)
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Waukesha County

.5 NE Sussex	13	2128CST 2134CST			0	0	4.4M		Hail(2.00)
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Hail sized ranged from 1.00 to 2.00 inches in diameter.

Washington County

5 WNW Colgate	13	2130CST			0	0	2.0M		Hail(2.00)
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Jefferson County

Concord to Sullivan	13	2132CST			0	0	4.4M		Hail(2.00)
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WISCONSIN, Southeast

Waukesha County

4 N Sussex	13	2132CST			0	0	4.4M		Hail(2.00)
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Waukesha County

Memomonee Falls to 1.5 NE Menomonee Falls	13	2133CST 2140CST			0	0	4.4M		Hail(2.75)
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Hail sized ranged from 1.00 to 2.75 inches in diameter.

Washington County

1 SW Germantown	13	2137CST 2139CST			0	0	2.0M		Hail(2.00)
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Hail sized ranged from 1.00 to 2.00 inches in diameter.

Milwaukee County

1.5 SW Brown Deer	13	2143CST			0	0	2.0M		Hail(2.00)
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Ozaukee County

.5 N Saukville to Thiensville	13	2144CST 2147CST			0	0	6.3M		Hail(1.75)
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Milwaukee County

.6 NNW Brown Deer	13	2146CST			0	0	2.0M		Hail(1.00)
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Milwaukee County

Glendale	13	2147CST			0	0	2.0M		Hail(1.00)
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Waukesha County

4 S Waukesha	13	2158CST			0	0			Hail(0.88)
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Milwaukee County

2.3 SE Milwaukee	13	2201CST			0	0			Hail(0.88)
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Report provided by WISN TV 12 studios.

Milwaukee County

West Allis	13	2203CST 2210CST			0	0	2.0M		Hail(1.00)
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Milwaukee County

3 SE West Allis	13	2209CST			0	0			Hail(1.00)
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Milwaukee County

5.3 SSE Milwaukee	13	2210CST			0	0			Hail(1.00)
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Reported at 27th and Oklahoma.

Fond Du Lac County

1 NW Marytown to 1.9 ESE Marytown	13	2315CST 2320CST			0	0	500K		Thunderstorm Wind (EG78)
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Sheboygan County

Elkhart Lake to 5 S Sheboygan	13	2325CST 2345CST			0	0	400K		Thunderstorm Wind (EG78)
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Wild weather occurred over parts of south-central and southeast Wisconsin on April 13, 2005. Wisconsin's most-costly hailstorm pummeled a large swath from around Mineral Point (Iowa Co.) to north of Milwaukee (Milwaukee Co.), while hurricane-force thunderstorm winds raked parts of Fond du Lac and Sheboygan Counties. Here's what happened: scattered supercells developed in eastern Iowa during the late afternoon hours of April 13th and pushed east-northeastward through southern Wisconsin and northern Illinois during the evening. Three main hailstorms affected southern Wisconsin. The first hailstorm left a swath of hail and hail damage from southern Iowa County (around 1945CST), through central Dane County, through northern Jefferson County, through northern Waukesha County, to northern Milwaukee County by 2151CST. This storm produced mainly 1 to 4 inch diameter hail, with a 4.25 inch hailstone reported by a State Trooper about 3 miles northwest of Lake Mills at 2055CST (larger hailstones of 4.5 to 5.7 inches in diameter have been reported in Wisconsin in previous years). A second hailstorm developed just south of the first storm and left a swath of hail and hail damage from northern Lafayette County (around 1956CST through northern Green County, through southeast Dane County., through central and southern Jefferson County, through central Waukesha County, to central Milwaukee County by 2210CST. This storm produced hailstones up to 1.5 inch in diameter. The third hailstorm developed in southern Dodge County around 2056CST, and pushed through southern Washington County into central Ozaukee County by 2139CST. This storm produced 1 to 2 inch diameter hail. Damage was widespread and extensive with the three hailstorms. Thousands of motor vehicles, residential homes, businesses, and farms sustained hail damage, but luckily, there were no reports of injuries or deaths. Vehicle damage consisted of broken windows and dented sheetmetal. Roofs, widows, and siding of buildings



National Weather Service

Storm Data and Unusual Weather Phenomena



April 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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WISCONSIN, Southeast

were damaged. Many water-birds were killed on several inland lakes. No crop losses were reported, given that the growing season had not started as of April 13th.

Based on partial insurance company information and some estimation, the April 13th hailstorms resulted in total damage amounts of about \$158.55 million. This makes the April 13th episode the most costly hailstorm to affect Wisconsin. Collectively in 9 counties, at least 23,500 vehicle claims, at least 18,650 residential claims, and at least 2,515 business/farm claims were filed with various insurance companies through June 30, 2006. These claims translated to at least \$49.8 million in vehicle damage, at least \$96.8 million in residential home damage, and at least \$11.95 million in business/farm damage (new claims were still being filed as of June 28, 2006, therefore, these numbers may ultimately increase by 5 to 10%). Insurance company numbers, as provided to the Milwaukee/Sullivan WFO (monetary value of claims and number of claims), were not broken down by county. Therefore, estimated county-by-county breakdowns were derived - based on area affected in each county by hailstones 1.0 inches or larger, county population density, and relative sizes of the 20 largest insurance companies in Wisconsin. The estimated county monetary losses are: \$66.59 million in Dane County, \$22.2 million in both Iowa and Waukesha County, \$17.44 million in Jefferson County, \$7.93 million in both Milwaukee and Washington County, \$6.34 million in Ozaukee County, \$4.73 million in Lafayette County, and \$3.17 million in Dodge County. These county numbers were then broken down and appropriated to the largest of the individual hail reports within each county (see header strips above).

Last, but not least, a line of thunderstorms then pushed southeast out of Calumet and Manitowoc Counties through northeast Fond du Lac County and northern and eastern Sheboygan County between 2312CST and 2342CST. This line produced straight-line wind gusts up to an estimated 78 knots (90 mph) which caused extensive damage. Northeast Fond du Lac County was affected at 2315-2320CST, extending from 1.0 mile northwest of Marytown to 1.9 miles east southeast of Marytown. A dozen homes to sustain roof or siding damage, and on one farm a barn and a pole-shed were destroyed. Another farm had a barn and a garage destroyed and the nearby home was moved. Monetary damage amounts were estimated to be about \$500,000 in Fond du Lac County. Sheboygan County was affected at 2325-2345CST, extending from Elkart Lake to 5 miles south of Sheboygan. In this area, 2 barns and 5 pole sheds were destroyed, trees and powerlines were pushed onto several cars, a roof was torn off of a home in the city of Plymouth, and a roof was torn off a garage in the Town of Plymouth. In addition, a cargo trailer in the city of Sheboygan was blown 60 to 70 feet and smashed into a building that housed several businesses. About 300 customers in the city of Plymouth were without power. The Sheboygan ASOS equipment at the Sheboygan airport northwest of the city of Sheboygan recorded a gust of 58 knots (67 mph). Monetary damage amounts were estimated to be about \$400,000 in Sheboygan County. Synoptically, a stationary front draped itself over southern Wisconsin during the afternoon and evening of April 13th. Temperatures climbed into the mid 70s across south-central and southeast Wisconsin during the afternoon. Moderate low-level instability, cold air aloft, and strong vertical wind-shear profiles with very steep lapse-rates caused storms to fire and produce giant hail.

Dane County
Middleton to
Stoughton

16	1200CST 1400CST		0	0	Heavy Rain
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Dane County
Verona

16	2201CST 2206CST		0	0	Hail(0.88)
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Roads and lawns were covered white.

A cluster of strong to severe thunderstorms moved through Dane County, leaving behind hail stones pea-size to nickle-size, and some heavy rains that resulted in urban and small stream flooding. Rainfall amounts around an inch occurred in the Madison area and nearby communities within a one to two hour period early Sunday afternoon. Specifically, 0.75 inch was measured in Middleton, and 1.19 inches fell in Stoughton (WWTP). This resulted in water quickly flooding low spots on roads in the area from Middleton to Madison to Stoughton. Water depths reached vehicle floorboards, and some cars stalled. There were no major vehicle accidents, but some minor fender-benders were noted.

Milwaukee County
South Milwaukee

22	1618CST		0	0	Funnel Cloud
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A trained spotter reported a cold air funnel cloud at the intersection of Highway 32 and Drexel.

Racine County
North Cape

22	1705CST		0	0	Hail(0.75)
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National Weather Service

Storm Data and Unusual Weather Phenomena



May 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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LAKE MICHIGAN

LMZ646	Wind Pt Lt Wi To	17	1545CST	Winthrop Hbr II					
2 E Racine					0	0			Marine Hail (0.75)
LMZ646	Wind Pt Lt Wi To	17	1550CST	Winthrop Hbr II					
1.5 E Kenosha					0	0			Marine Tstm Wind (MG39)
LMZ646	Wind Pt Lt Wi To	17	2020CST	Winthrop Hbr II					
1.5 E Kenosha					0	0			Marine Tstm Wind (MG35)

Thunderstorm that pulsed to severe limits over land managed to maintain their strength and move out over the nearshore waters of Lake Michigan in the Racine to Kenosha area.

WISCONSIN, Southeast

WIZ046>047-051>052-056>060-062>064-067>072	Marquette - Green Lake - Fond Du Lac - Sheboygan - Sauk - Columbia - Dodge - Washington - Ozaukee - Iowa - Dane - Jefferson - Lafayette - Green - Rock - Walworth - Racine - Kenosha	09 10	2200CST 0700CST						
					0	0			Dense Fog

After widespread rain on May 9th, the ground was left saturated during the morning hours of the 10th. Clear skies and light south winds allowed for strong radiational cooling which promoted the development of dense fog across south-central and southeast Wisconsin. Visibilities fell to less than 1/4 mile with some locations dropping to near zero. A person was killed (indirectly-related to dense fog) after colliding their vehicle with a train near Watertown in Dodge County. Visibility was near zero at that time.

WIZ046>047-051>052-056>060-063>066-069>072	Marquette - Green Lake - Fond Du Lac - Sheboygan - Sauk - Columbia - Dodge - Washington - Ozaukee - Dane - Jefferson - Waukesha - Milwaukee - Rock - Walworth - Racine - Kenosha	11	1200CST 1800CST						
					0	0	19.5K		Strong Wind (EG36)

Strong northwest wind gusts of 39 to 43 knots (45 to 50 mph) affected south-central and southeast Wisconsin on May 11th, in the wake of an abnormally strong low pressure that tracked from the Texas Panhandle into Lower Michigan. This resulted in scattered light tree damage and power outages. In addition, there were two indirectly-related vehicle accident deaths. In one case, a woman was killed as her son lost control of the vehicle on a wet road during a rain shower, which led to a head-on collision in the town of Grafton (Ozaukee Co.) around 0825CST (poor visibility and inattentiveness may have been factors, based on the police report). Elsewhere, a man died in Fitchburg (Dane Co.) around 1500CST when he lost control of his vehicle trying to swerve from a large tree limb on the road, and hit another tree. Some notable maximum wind gusts include 43 knots (50 mph) at Sheboygan North High School (Sheboygan Co. - Milwaukee TV-6 school net site), 42 knots at Madison Memorial High School (Dane Co. - Madison TV-15 school net site), and 41 knots (47 mph) at the ASOS units at both Milwaukee Mitchell Field (Milwaukee Co.) and the Sheboygan County Airport northwest of Sheboygan Falls. Last, but not least, temperatures fell to unseasonably cold levels in the 30s during the afternoon. A mix of rain and snow or all light snow resulted toward the tail end of a convective precipitation shield during the later afternoon and overnight hours. Snow accumulations up to 1 inch occurred on top of 1716-foot high Blue Mound in eastern Iowa County, as well as in the higher, grassy areas in parts of Sauk, Dane, Jefferson, Walworth, and Waukesha counties.

Dane County	5 NE Sun Prairie to 2 E Marshall	17	1253CST 1308CST						
					0	0			Hail(0.75)
Jefferson County	Waterloo	17	1315CST		0	0			Hail(0.75)
Dane County	Cottage Grove	17	1331CST		0	0			Hail(0.75)



National Weather Service

Storm Data and Unusual Weather Phenomena



May 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>WISCONSIN, Southeast</u>									
Sheboygan County 2.2 SE Plymouth	17	1339CST			0	0			Hail(1.75)
Columbia County 2 SE Friesland	17	1340CST			0	0			Hail(0.75)
Fond Du Lac County 4 ENE Eden	17	1340CST			0	0			Hail(0.75)
Columbia County 4 W Arlington	17	1348CST			0	0			Hail(0.75)
Dodge County Randolph	17	1348CST			0	0			Hail(0.75)
Sheboygan County 4 WNW Waldo	17	1349CST			0	0			Hail(0.75)
Dane County De Forest	17	1358CST			0	0			Hail(1.75)
Ozaukee County 3 NE Fredonia	17	1405CST			0	0			Hail(0.75)
Walworth County 4 NNE Lake Geneva	17	1405CST			0	0			Hail(0.75)
Kenosha County 4 NNW Twin Lakes	17	1418CST			0	0			Hail(0.75)
Dane County 1.5 W Madison	17	1425CST 1430CST			0	0			Hail(0.75)
Fond Du Lac County 5 WNW Waupun	17	1431CST			0	0			Hail(0.75)
Dodge County 5 SSW Waupun	17	1444CST			0	0			Hail(0.75)
Washington County 3 WNW Germantown	17	1448CST			0	0			Hail(0.75)
Milwaukee County Milwaukee Mitchell Ar	17	1501CST			0	0			Funnel Cloud
Rock County Janesville to Emerald Grove	17	1501CST 1510CST			0	0			Thunderstorm Wind (EG52)
			Trees and powerlines down.						
Racine County 1.5 W Racine	17	1505CST			0	0			Hail(0.88)
Racine County .5 W Racine	17	1505CST			0	0			Hail(0.88)
Rock County 3 ESE Milton	17	1505CST			0	0			Hail(0.75)
Waukesha County Hartland	17	1505CST			0	0			Hail(1.00)
Racine County 1 W Racine	17	1525CST			0	0			Funnel Cloud
Walworth County 3 N Darien to 4 NE Sharon	17	1526CST 1535CST			0	0			Hail(0.75)



National Weather Service

Storm Data and Unusual Weather Phenomena



May 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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WISCONSIN, Southeast

Racine County

Racine	17	1545CST			0	0	3K		Hail(0.75)
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Wind driven hail dented cars and siding.

Racine County

4 ESE Waterford	17	1548CST			0	0			Hail(0.75)
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As a shortwave approached southern Wisconsin during the afternoon, it interacted with unstable conditions to produce scattered clusters of severe thunderstorms that dumped large hail up to the size of golf balls, and produced isolated downburst winds that pulled down trees and power lines. Steep lapse rates and cold air aloft allowed for hail formation within the storms. A funnel cloud was observed near Milwaukee General Mitchell International Airport (Milwaukee Co.) around 1501CST, and another one over the city of Racine (Racine Co.) around 1525CST.

Kenosha County

Kenosha	24	1600CST			0	0	1K		Lightning
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Lightning struck a garage in the city of Kenosha, resulting in a small fire and slight damage. The time is only an estimate, it could have been a hour or two earlier.

Sauk County

Loganville to Hillpt	24	1630CST 1700CST			0	0			Thunderstorm Wind (EG50)
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Sauk County

8 W Spring Green	24	1639CST			0	0			Thunderstorm Wind (MG50)
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Iowa County

6 NW Dodgeville	24	1643CST			0	0			Hail(0.88)
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Sauk County

1 SW Reedsburg	24	1643CST			0	0			Hail(0.75)
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Sauk County

4.5 SSW Devils Lake to 4.5 SW Devils Lake	24	1653CST	0.1	20	0	0	0	0	Tornado (F0)
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A brief tornado spun up 4.5 miles southwest of Devils Lake and did no damage. The tornado was rated an F0.

Dane County

(Msn)Truax Fld Madis	24	1700CST 1800CST			0	0			Heavy Rain
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Heavy rains fell in the Madison area during the late afternoon of May 24th as storms rolled through the area. Between 1700CST and 1800CST, 1.31 inches of rain fell at Madison's Traux Field, which contributed to a new daily record of 1.51 inches for the date. Water quickly accumulated in low areas on some Madison roads, and in some cases, the water level reached vehicle floor boards. The deepest water was reported to be 18 inches. The urban flooding started about 1730CST and ended about 1830CST. About 25 vehicles stalled in the deep water.

Columbia County

1 NW Portage	24	1715CST			0	0			Thunderstorm Wind (EG50)
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Dane County

1 W Waunakee	24	1720CST			0	0			Thunderstorm Wind (EG56)
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Rock County

Countywide	24	1730CST			0	0	20K		Thunderstorm Wind (EG56)
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Dane County

Marxville	24	1735CST			0	0			Thunderstorm Wind (EG52)
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Trees down.



National Weather Service

Storm Data and Unusual Weather Phenomena



May 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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WISCONSIN, Southeast

Dane County

Monona 24 1741CST 0 0 **Thunderstorm Wind (EG50)**
Trees down.

Dane County

Monona 24 1758CST 0 0 **Thunderstorm Wind (EG52)**

Dane County

Stoughton 24 1800CST 0 0 **Thunderstorm Wind (EG52)**

Jefferson County

Ft Atkinson 24 1800CST 0 0 10K **Thunderstorm Wind (EG50)**

Waukesha County

Brookfield 24 1830CST 0 0 1K **Lightning**
Lightning striking the ground next to a home shattered its windows.

Waukesha County

Delafield 24 1900CST 0 0 10K **Thunderstorm Wind (EG50)**

A broken like of thunderstorms developed ahead of a cold front headed into western Wisconsin during the late afternoon hours. With a moderately unstable airmass and decent directional shear, some storms took on supercellular characteristics. One such storm produced a tornado in Sauk County, 4.5 miles south-southwest of Devils Lake, just west of STH 12 on the west side of the Badger Army Ammunition Plant, in the Bluffview area. The tornado was brief and weak. No significant damage was noted. The line progressed east across most of southern Wisconsin during the early evening, producing areas of large hail and damaging straight-line winds which uprooted large trees or broke large tree branches out of trees. In Rock County, scattered large trees were uprooted, which in turn blocked several roads. About a half-dozen homes were lightly damaged due to trees or tree branches crashing down on them. Heavy rainfall in the Madison area led to urban-type flooding. Lightning strikes and/or tree limbs hitting power lines resulted in about 2900 customers losing electrical power, mostly in the Fort Atkinson (Jefferson Co.) and Delafield (Waukesha Co.) areas.

Rock County

1 W Beloit 27 1505CST 0 0 5K **Thunderstorm Wind (EG56)**
Trees down on a house and garage. Light damage to roof and siding.

Columbia County

Portage 27 1545CST 0 0 **Hail(0.75)**

Columbia County

7 N Portage 27 1635CST 0 0 **Hail(0.75)**

Fond Du Lac County

Fond Du Lac 27 2236CST 0 0 3K **Lightning**
Lightning struck a house and started the roof on fire.

Scattered afternoon thunderstorms popped up over south-central and southeast Wisconsin on May 27th, resulting in some large hail reports and some damaging straight-line winds.

Green County

6 N Brodhead 29 1243CST 0 0 **Thunderstorm Wind (EG52)**
Trees down.

Rock County

1.7 SE Evansville 29 1255CST 0 0 25K **Thunderstorm Wind (EG52)**
Pole barn, furniture, and tree damage.

Racine County

Burlington 29 1507CST 0 5 **Lightning**
Five people were injured (suffered tingling sensations) by a nearby lightning strike during the ChocolateFest in Burlington. They were taken to a local hospital for medical treatment and released.



National Weather Service

Storm Data and Unusual Weather Phenomena



May 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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WISCONSIN, Southeast

Racine County

Burlington

29	1508CST				0	2			Lightning
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A mother and her child outside a retail store in Burlington were injured when a lightning bolt struck nearby.

Scattered thunderstorms developed during the afternoon hours of May 29th. Only a couple storms became severe to produce damaging winds in eastern Green County and western Rock County. Elsewhere, a non-severe storm resulted in several outdoor lightning injuries in Burlington (Racine Co.).

May 28th and May 29th were very warm days for late May in the Milwaukee area. The max/min air temperatures for the two days were 90/65 and 89/70, respectively, and they were 77/65 on May 30th. Normal highs and lows for late May are 71 and 51. Afternoon heat index values were in the 90 to 95 range on both the 28th and 29th. An 80-year-old women died In Milwaukee due to heat hyperthermia on May 30th, after the combined affects of the 28th and 29th. She was found in her residence with all windows closed, and no fan or air conditioning. The ambient weather conditions were below official heat advisory criteria, therefore a heat event was not generated for May 30th. Consequently, although the medical examiner classified heat as the primary cause of death, this heat-related death will be considered as indirectly-related for StormData purposes.



National Weather Service

Storm Data and Unusual Weather Phenomena



June 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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LAKE MICHIGAN

LMZ645 **North Pt Lt To Wind Pt Wi**
Milwaukee Harbor **21 0615CST** **0 0** **Marine Tstm Wind (MG38)**

LMZ644 **Pt Washington To North Pt Lt Wi**
Mequon **21 0625CST**
 0632CST **0 0** **Marine Tstm Wind (EG52)**

Power lines down on the lakeshore in Bayside at 0625 CST and Mequon at 0632 CST.

LMZ643 **Sheboygan To Pt Washington Wi**
Sheboygan **21 0656CST** **0 0** **Marine Tstm Wind (MG42)**

LMZ665 **Lm Sheboygan Wi To Winthrop Harbor II Ewd Byd 5Nm To Mid Line Of Lake**
38 ESE Wind Point **21 0730CST** **0 0** **Marine Tstm Wind (MG35)**

Numerous thunderstorms developed during the early morning hours of June 21st, producing mainly damaging winds. A couple thunderstorms moved out over the Wisconsin nearshore waters and open waters between 0600CST and 0800CST and produced wind gusts between 38 and 52 knots. Synoptically, thunderstorms developed along a warm front that extended from northeast Iowa, into southern Wisconsin and across Lake Michigan into Lower Michigan. A layer of drier air aloft contributed to the cause for wind damaging thunderstorms.

LMZ646 **Wind Pt Lt Wi To Winthrop Hbr II**
Kenosha **28 1825CST** **0 0** **Marine Tstm Wind (MG44)**

A thunderstorm pushed onto Lake Michigan around Kenosha and produced a 44 knot measured gust at the Kenosha GLERL site.

WISCONSIN, Southeast

Iowa County

2.8 SW Helena **06 1753CST**
 1755CST **0.2 25 0 0** **Tornado (F0)**

A tornado spun up 2.8 miles southwest of Helena at 1753CST on the Wisconsin River just west/northwest of the STH 23 bridge that crosses the river. It moved southeast and on-shore just east of the bridge and quickly dissipated at 1755CST. The tornado resulted in only minor tree damage and was rated F0 with winds around 50 knots (58 mph).

Columbia County

3 E Wisconsin Dells to **06 1754CST**
1.5 SE Lewiston **1813CST** **6.1 200 0 0 400K** **Tornado (F1)**

The first segment of a multi-county-segmented tornado spun up 3.0 miles east of Wisconsin Dells at 1754CST about 0.6 mile east-northeast of the intersection of Broadway Rd. and CTH Q. It headed southeast and crossed STH 16 at Lewiston, and then crossed the Wisconsin River into Sauk County about 1.5 miles southeast of Lewiston at 1813CST. In this first Columbia County stretch, around 10 houses were damaged or destroyed, along with a couple pole sheds and many trees and power lines. An estimated 400,000 dollars in property damage occurred. The tornado was rated F1 with winds of 64 to 97 knots (73-112 mph). After a short track through Sauk County, this tornado re-entered Columbia County about 7 miles west of Portage, crossed Interstate 90/94, and then crossed the Wisconsin River again before dissipating at 1840CST.

Columbia County

2.7 NE Lewiston **06 1755CST** **0 0** **Hail(0.75)**

Columbia County

2.7 NE Lewiston **06 1755CST** **0 0** **Thunderstorm Wind (EG56)**
 Trees down.

Sauk County

8.5 ESE Lake Delton to **06 1813CST**
10.1 ESE Lake Delton **1817CST** **1.6 100 0 0 1K** **Tornado (F0)**

This tornado segment is the 2nd of a three-segment tornado (Columbia-Sauk-Columbia). The first segment started in Columbia



National Weather Service

Storm Data and Unusual Weather Phenomena



June 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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WISCONSIN, Southeast

County about 3.0 miles east of Wisconsin Dells. This second segment entered Sauk County about 8.5 miles east-southeast of Lake Delton at 1813CST (or about 0.6 mile northeast of the intersection of N Hein Rd. and Levee Rd.) and headed southeast. It exited Sauk County about 10.1 miles east-southeast of Lake Delton at 1817CST where Levee Rd. goes east into Columbia County. The tornado caused a tree to fall onto a home which caused 1000 dollars in property damage. The tornado during this second county segment had weakened a bit down to the F0 rating with winds of 35-63 knots (40-72 mph). Overall, this three-segment tornado path length was 16.9 miles with a time span of 1754CST to 1840CST.

Iowa County

**5.6 NNW Ridgeway to
3.3 NNE Ridgeway**

06	1814CST 1825CST	2.7	30	0	0				Tornado (F0)
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A tornado spun up 5.6 miles NNW of Ridgeway at 1814CST just south of Erdman Rd. (or about 1.5 WNW of an unincorporated hamlet of Hyde). It headed southeast for 2.7 miles and dissipated 3.3 miles NNE of Ridgeway at 1825 CST near a big curve on Dugway Rd. This tornado resulted in only minor tree damage and was rated F0 with winds around 50 knots (58 mph)

Columbia County

**7 W Portage to
1 SW Dekorra**

06	1817CST 1840CST	9.2	200	0	0	600K			Tornado (F1)
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This tornado segment is a third, county-segment, continuation of a tornado that initially spun up in far northwestern Columbia County about 3.0 miles east of Wisconsin Dells at 1754CST and then crossed into Sauk County about 1.5 miles southeast of Lewiston at 1813CST. This tornado re-entered Columbia County about 7.0 miles west of Portage at 1817CST where Levee Rd. on the south side of the Wisconsin River exits Columbia County going west. The heading of this tornado was southeast, and it crossed Interstate 90/94 near Tritz Road where a vehicle swerved and caused a semitrailer to roll onto its side. It eventually passed through a residential trailer complex/camp ground south of the Cascade Ski Resort. It crossed Interstate 90/94 where Ziehmke Rd approached the Interstate from the east. At this point, the tornado caused a semitrailer to be blown off the road. The tornado then tracked over the extreme eastern edge of Pickerel Lake, crossed over the Wisconsin River for the second time, and dissipated about 1.0 mile southwest of Dekorra at 1840CST, just short of CTH V. Around 10 houses were damaged, along with a barn, a couple pole sheds, and many trees and power lines. The tornado caused about 600,000 dollars in property damage, and was rated F1 with winds of 64-97 knots (73-112 mph). The tornado was well-photographed and filmed. Overall, this F1 Columbia-Sauk-Columbia County tornado path length was 16.9 miles with a beginning time of 1754CST and an ending time of 1840CST.

Iowa County

**1.5 W Barneveld to
1.4 WSW Barneveld**

06	1833CST 1835CST	0.5	30	0	0	5K			Tornado (F0)
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A tornado spun up 1.5 miles west of Barneveld at 1833 CST just northwest of the intersection of STH 18/151 and Ihm-Harris Rd. It traveled southeast across the intersection of these two roads and dissipated about 100 yards southeast of the intersection about 1.4 miles WSW of Barneveld at 1835CST. About 5,000 dollars in damage occurred to a shed and home. The tornado was rated an F0 with winds around 56 knots (65 mph).

Columbia County

Arlington

06	1915CST			0	0				Funnel Cloud
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Dane County

2 E Waunakee

06	1930CST			0	0	5K			Thunderstorm Wind (EG70)
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Around 1930 CST (830 PM CDT) thunderstorm wind gusts took a roof off a house 2 miles east of Waunakee. Winds were estimated at 70 knots (80 mph). About 5,000 dollars in damage resulted.

Green County

3 N Monticello

06	1945CST			0	0				Funnel Cloud
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National Weather Service

Storm Data and Unusual Weather Phenomena



June 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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WISCONSIN, Southeast

Green Lake County

Marquette **06** **2040CST** **0** **0** **Hail(0.88)**

Several supercell thunderstorms developed along a cold front across southwest Wisconsin and pushed east southeast into south-central Wisconsin during the late afternoon and early evening. Six tornadoes resulted from these storms (listed with details above) of the F0 to F1 variety across the counties of Sauk, Columbia, and Iowa. A couple funnel clouds were reported in Green and Columbia counties, as well as large hail in Green Lake and Columbia counties, and thunderstorm wind damage in Dane and Columbia counties. Synoptically, with temperatures in the low or mid 70s and dewpoints in the mid 60s with cold air aloft, high instability resulted. Vertical wind shear, in addition to lift with the cold front, allowed supercell thunderstorms to develop. Sufficient low-level shear allowed tornadic development with two of the supercells.

Dane County

3.4 SW Stoughton **18** **1322CST** **0.1** **20** **0** **0** **Tornado (F0)**

A brief tornado spun up at 1322CST at a location 3.4 miles southwest of Stoughton, just northeast of the intersection of CTH A and Lake Kegonsa Rd. Only some tree and shrub damage was noted and the tornado was rated F0 with winds of 35-63 knots (40-72 mph). The parent thunderstorm eventually moved east and generated another funnel cloud southeast of Stoughton.

Dodge County

**1.5 SSE Rubicon to
2.4 SE Rubicon** **18** **1326CST
1327CST** **1.2** **25** **0** **0** **Tornado (F0)**

A tornado spun up at 1326CST at a location 1.5 SSE of Rubicon about 0.2 mile south of the intersection of STH 60 and Resthaven Rd. It tracked east-southeast and exited Dodge County at 1327CST about 2.4 southeast of Rubicon (or about 0.6 mile south of where STH 60 goes east into Washington Co.). Only some minor tree damage was noted with this segment of the tornado track, which was rated F0 with winds of 35-63 knots (40-72 mph).

Washington County

**2 W Hartford to
2.7 SE Hartford** **18** **1327CST
1339CST** **4.6** **400** **0** **1** **4M** **Tornado (F1)**

This tornado segment is a continuation of the Dodge County segment southeast of Rubicon. This second segment entered Washington County at a location 2.0 miles west of Hartford (about 0.6 mile south of where STH 60 goes east into Dodge Co.) and headed east-southeast through the southern part of the city of Hartford. The tornado strengthened to a high end F1 as it passed through the city. Around 147 residences sustained at least some damage ranging from tree damage to severe structural damage. Ten businesses also sustained structural damage. Lincoln Elementary School's roof was completely destroyed. Estimated damage amounts totaled about 4 million dollars. One person was directly injured by the tornado and two others were indirectly injured. Nobody was killed. The tornado continued east-southeast to a dissipation location 2.7 miles southeast of Hartford (about 0.1 mile southeast of the northern intersection of CTH E and K) at 1339CST. This segment of the tornado track was rated as F1 with winds of 64-97 knots (73-112 mph).

Dane County

3 SE Stoughton **18** **1353CST** **0** **0** **Funnel Cloud**

Sheboygan County

Sheboygan **18** **1850CST
1905CST** **0** **0** **Funnel Cloud**

On a day one would not expect any tornadoes, a couple tornadoes did manage to spin up in southern Wisconsin. A fairly abnormal weather situation developed during the early afternoon hours of June 18th. After a large area of stratiform rain moved east out of Wisconsin, a line of scattered thunderstorms developed on the western edge of the rain shield. Two storms developed supercellular characteristics and produced a couple tornadoes - one that moved from Dodge County into Washington County, and another brief one in Dane county. In addition, a couple funnel clouds were reported. Specific details of both tornadoes are found above.



National Weather Service

Storm Data and Unusual Weather Phenomena



June 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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WISCONSIN, Southeast

Synoptically, a trough pushed through south-central and southeast Wisconsin during the late morning and afternoon hours. A moist airmass left behind from morning rain allowed for low cloud base heights. Sufficient low-level vertical wind shear was present for rotating storms. Once rotation was evident in the thunderstorms, tornadoes were easily formed because of low cloud heights and decent low-level CAPE.

Rock County									
5 NW Beloit	21	0430CST			0	0			Hail(0.75)

Rock County									
5 NW Beloit	21	0430CST			0	0			Thunderstorm Wind (EG52)
			Trees down.						

Walworth County									
Lake Geneva	21	0447CST			0	0			Thunderstorm Wind (EG52)
			Trees down.						

Green County									
Brodhead	21	0500CST			0	0	10K		Thunderstorm Wind (EG56)
			Trees down.						

Rock County									
Beloit	21	0502CST			0	0	20K		Thunderstorm Wind (EG56)
			Damaging thunderstorm winds caused a tree to topple onto a house which tore an electrical box off the side of the house. When the electrical box began to overheat, the house caught fire. Chimney damage, roof damage, and smoke damage caused around 20,000 dollars in property damage.						

Green County									
Monroe	21	0505CST			0	0			Thunderstorm Wind (EG56)
			Trees down.						

Racine County									
Burlington	21	0515CST			0	0			Thunderstorm Wind (EG52)
			Trees down.						

Green County									
Monticello	21	0530CST			0	0			Thunderstorm Wind (EG56)
			Trees down.						

Racine County									
Bohners Lake	21	0530CST			0	0			Thunderstorm Wind (EG52)
			Trees down.						

Racine County									
Rochester	21	0530CST			0	0			Thunderstorm Wind (EG56)
			Trees down.						

Dane County									
1 SW Waunakee	21	0550CST			0	0			Funnel Cloud

Waukesha County									
Brookfield	21	0550CST			0	0	10K		Thunderstorm Wind (EG56)
			Trees and power lines down.						

Waukesha County									
Brookfield	21	0605CST			0	0			Thunderstorm Wind (EG52)
			Trees down.						

Milwaukee County									
.5 SE Hales Corners	21	0606CST			0	0			Thunderstorm Wind (EG56)
			Trees and power lines down on Potter Rd.						

Milwaukee County									
Hales Corners	21	0612CST			0	0	20K		Thunderstorm Wind (EG56)
			Trees and power lines down on Godsell Road.						



National Weather Service

Storm Data and Unusual Weather Phenomena



June 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>WISCONSIN, Southeast</u>									
Washington County Jackson	21	0612CST			0	0			Thunderstorm Wind (MG50)
Milwaukee County 1.5 E Oak Creek	21	0615CST			0	0	20K		Thunderstorm Wind (EG56) Trees and power lines down on Puetz Rd. and Chicago.
Milwaukee County 5 SSW Milwaukee	21	0619CST			0	0	20K		Thunderstorm Wind (EG56) Trees and power lines down on 76th street.
Milwaukee County 8.5 SSE Milwaukee	21	0620CST			0	0	20K		Thunderstorm Wind (EG56) Trees and power lines down on West Tower Rd.
Milwaukee County Bayside	21	0625CST			0	0	10K		Thunderstorm Wind (EG56) Trees and power lines down.
Milwaukee County 2 E Milwaukee	21	0631CST			0	0	10K		Thunderstorm Wind (EG56) Trees and power lines down on N. 13th St.
Ozaukee County Mequon	21	0632CST			0	0	10K		Thunderstorm Wind (EG56) Trees and power lines down.
Dodge County Hustisford	21	0638CST			0	0			Thunderstorm Wind (EG50) Trees down.
Milwaukee County 2 SE Milwaukee	21	0641CST			0	0	20K		Thunderstorm Wind (EG56) Trees and power lines down on 25th and Wells.
Lafayette County 1 N South Wayne	21	0649CST			0	0			Thunderstorm Wind (EG50) Trees down on Mink Farm Rd.
Washington County Countywide	21	0655CST			0	0	50K		Thunderstorm Wind (EG65) Widespread tree and power line damage across most of the county.
Milwaukee County 3 E Milwaukee	21	0657CST			0	0	20K		Thunderstorm Wind (EG56) Trees and power lines down on Wright and Holton.
Rock County Beloit	21	0700CST			0	0			Thunderstorm Wind (EG56) Widespread tree damage.
Rock County Janesville	21	0701CST			0	0			Thunderstorm Wind (EG56) Widespread tree damage.
Fond Du Lac County Fond Du Lac	21	0705CST			0	0			Thunderstorm Wind (EG52) Trees down near Highway 41 in Fond du Lac.
Milwaukee County 6.5 SE Milwaukee	21	0708CST			0	0			Thunderstorm Wind (EG52) Trees down.
Green County Browtown	21	0715CST			0	0			Thunderstorm Wind (EG50) Tree down.



National Weather Service

Storm Data and Unusual Weather Phenomena



June 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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WISCONSIN, Southeast

Green County

Albany	21	0745CST			0	0			Thunderstorm Wind (EG52)
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Trees down.

Numerous thunderstorms developed during the early morning hours of June 21st, producing mainly damaging straightline winds. Trees and power lines were reported down across many areas of south-central and southeast Wisconsin. A funnel cloud was also reported in Dane County and a hail report was received from Rock County. Synoptically, thunderstorms developed along a warm front that extended from northeast Iowa, into southern Wisconsin and across Lake Michigan into Lower Michigan. A layer of drier air aloft contributed to the cause for wind damaging thunderstorms.

Columbia County

Dekorra to North Leeds	25	0130CST 0210CST			0	0	500M	1.7M	Hail(1.00)
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A slow-moving thunderstorm moved from the Dekorra area southeast through the Poynette area to the North Leeds area, leaving in its wake a lot of crop damage due to hail. A roughly 40 to 45-minute hail shower (stones up to the size of quarters) fell in a band from about 3 miles south-southeast of Dekorra along Kent Rd. to the McKenzie Environmental Education Center just northeast of Poynette. Crop, vegetable, and fruit damage was noted, and in some cases, an entire year's crop was lost due to hail damage. Many residential homes and vehicles were damaged. Hail depth on some roads reached 8 inches and had to be plowed off the roads, especially along Kent Rd. and near the McKenzie Center. The crop damage estimate is based on a newspaper report which quoted a USDA report. The property damage is purely an estimate based on a variety of reports.

Columbia County

Wyocena to Arlington	25	1330CST 1600CST			0	0	40K		Flash Flood
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Thunderstorms with torrential rainfall of 3 to 6 inches (radar estimated) within a couple hours caused low spots on several roads to be washed out near Poynette. In addition, there were other washouts of gravel shoulders on some roads. Several roads had water depths of 1 to 2 feet on low spots.

Columbia County

Poynette	25	1340CST			0	0			Hail(0.75)
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Sauk County

Hillpt	25	1400CST 1700CST			0	0	500K	1K	Flash Flood
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Thunderstorms with torrential downpours produced rainfalls of 3 to 6 inches (radar estimated) in west-central Sauk County. Specifically, 4.67 inches of rain fell in Hill Point from 1315CST to 1430CST. Several shoulder gravel washouts occurred on a couple roads in the west-central part of the county as well as on some residential driveways. Several roads had water depths of 1 to 2 feet on low spots. The area that was affected the most was a 2 mile by 10 mile band in the Civil Towns of Ironton and Washington. In this area, four roads had a low spot washed away from the floods. One farm lost 4 acres of a hay/alfalfa crop.

Columbia County

4 S Wyocena	25	1410CST			0	0			Hail(0.88)
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Sauk County

Loganville	25	1430CST			0	0			Hail(0.88)
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Dane County

Middleton	25	1500CST 1630CST			0	0	20K		Flash Flood
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Heavy rains of 3 to 5 inches (radar estimated) from thunderstorms caused water to flood over many roads just north of Middleton. Some gravel shoulder washouts were noted, as well as some basement flooding.



National Weather Service

Storm Data and Unusual Weather Phenomena



June 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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WISCONSIN, Southeast

Dane County

Middleton	25	1500CST			0	0	20K		Heavy Rain
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The heavy rains that fell in the Middleton area resulted in a partial collapse of a roof of a warehouse due to accumulation of rain water on the roof.

Dane County

4.5 NE Sun Prairie	25	1500CST 1700CST			0	0	20K		Flash Flood
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Heavy rains of 3 to 5 inches (radar estimated) in a short period of time resulted in flash flooding. Gravel shoulder washouts occurred on a couple roads, and there was some basement flooding.

Walworth County

1 S La Grange	26	0115CST			0	0	2K		Lightning
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Lightning struck the roof a residence causing a 6-8 inch hole in the roof, and the collapse of the ceiling under the impact area.

Walworth County

3.8 SE La Grange	26	0130CST			0	0	1K		Lightning
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Lightning struck a tree and traveled through the ground to a residence near STH 12/67 and Lauderdale Drive, and broke two windows and cracked some drywall.

Very slow moving clusters of thunderstorms developed across south-central Wisconsin during the early afternoon hours of June 25th. Very heavy rains within these storms produced 3 to 5 inches of rain in some areas and resulted in flash flooding near Sun Prairie (Dane Co., Wycocena to Arlington (Columbia Co.), and Middleton (Dane Co.). Road washouts, gravel shoulder washouts, and basement flooding were the main result from this flooding. A large area of southern Columbia County had considerable flood and hail damage - refer to details in the specific line entries for flash flooding and hail events for this date. The slow movement of the the thunderstorms amplified the damage.

Dodge County

Beaver Dam	27	1748CST			0	0			Thunderstorm Wind (EG52)
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Three trees, 1 powerline, and 1 cable line were reported down due to powerful thunderstorm winds

Dodge County

4 SW Horicon	27	1800CST			0	0			Funnel Cloud
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Washington County

2 W Kewaskum	27	1902CST			0	0			Hail(0.88)
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A few severe weather events were recorded as slow moving scattered thunderstorms developed across portions of south-central and southeast Wisconsin. Damaging straight-line winds and large hail were noted.

Columbia County

Pardeeville to 3 SE Pardeeville	28	1612CST 1615CST			0	0			Hail(0.88)
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Marquette County

6 SW Endeavor	28	1620CST 1623CST			0	0			Hail(0.75)
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Dodge County

4 NE Watertown	28	1655CST			0	0			Hail(0.75)
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Waukesha County

Oconomowoc	28	1708CST			0	0			Hail(0.88)
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Waukesha County

1 E Delafield to Genesee Depot	28	1721CST 1740CST			0	0			Thunderstorm Wind (EG52)
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Trees were reported down with the damaging winds. Penny sized hail was also noted for 5 minutes within the swath of wind



National Weather Service

Storm Data and Unusual Weather Phenomena



June 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

WISCONSIN, Southeast

damage.

Dane County

Cottage Grove

28	1730CST	1735CST			0	0			Hail(0.75)
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The ground was nearly covered white with hail accumulation.

Rock County

Janesville

28	1808CST				0	0			Thunderstorm Wind (EG52)
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Trees down.

Scattered thunderstorms developed during the late afternoon or early evening hours of June 28th across south-central and southeast Wisconsin. Some of these storms pulsed to severe limits and produced marginally severe hail and damaging winds. Cold air aloft created instability which allowed the storms to develop. These storms diminished as the evening progressed



National Weather Service

Storm Data and Unusual Weather Phenomena



July 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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LAKE MICHIGAN

LMZ645	North Pt	Lt To	Wind Pt	Wi					
Milwaukee Harbor	09	1740CST			0	0			Marine Tstm Wind (MG42)
LMZ645	North Pt	Lt To	Wind Pt	Wi					
Milwaukee Harbor	09	1830CST			0	0			Marine Tstm Wind (MG48)
LMZ646	Wind Pt	Lt Wi To	Winthrop Hbr	II					
2.2 ESE Kenosha	09	2025CST			0	0			Marine Tstm Wind (MG38)
LMZ646	Wind Pt	Lt Wi To	Winthrop Hbr	II					
2.2 ESE Kenosha	09	2030CST			0	0			Marine Tstm Wind (MG42)
LMZ646	Wind Pt	Lt Wi To	Winthrop Hbr	II					
2.2 ESE Kenosha	09	2035CST			0	0			Marine Tstm Wind (MG36)
A broken line of severe storms moved southeast across southern Wisconsin out over Lake Michigan, mostly from the Milwaukee area south to the Illinois border. Powerful thunderstorm wind gusts were generated									
LMZ643	Sheboygan To	Pt Washington	Wi						
1.5 E Sheboygan	17	1335CST			0	0			Marine Tstm Wind (EG50)
LMZ643	Sheboygan To	Pt Washington	Wi						
Harrington Bch St Prk	17	1935CST			0	0			Marine Hail (0.75)
The remains of a line of storms (bow echo) moved east out over Lake Michigan, resulting in a few powerful wind gusts over the nearshore waters, as well as some isolated large hail.									
LMZ645	North Pt	Lt To	Wind Pt	Wi					
Milwaukee Harbor	20	0300CST			0	0			Marine Tstm Wind (MG35)
The remains of severe storms over southern Wisconsin fell apart as they moved out over the Lake Michigan waters, but a strong wind gust affected the Milwaukee Harbor.									
LMZ645	North Pt	Lt To	Wind Pt	Wi					
Milwaukee Harbor	22	1800CST			0	0			Marine Hail (0.75)
A cluster of storms that popped up over Milwaukee County managed to move out over Lake Michigan around the Milwaukee Harbor area and locations just to the south of the harbor.									
LMZ645	North Pt	Lt To	Wind Pt	Wi					
Milwaukee Harbor	30	0805CST			0	0			Marine Tstm Wind (MG38)
LMZ645	North Pt	Lt To	Wind Pt	Wi					
Milwaukee Harbor	30	0815CST			0	0			Marine Tstm Wind (MG35)
LMZ646	Wind Pt	Lt Wi To	Winthrop Hbr	II					
2.2 ESE Kenosha	30	0900CST			0	0			Marine Tstm Wind (MG47)
The remains of severe storms over southern Wisconsin moved out over the Lake Michigan waters, primarily from the Milwaukee Harbor to Winthrop Harbor. Strong wind gusts were reported over the nearshore waters.									

WISCONSIN, Southeast

Green Lake County									
Berlin	01	1820CST			0	0			Funnel Cloud
Columbia County									
1 N Wisconsin Dells	01	1847CST			0	0			Hail(1.75)
Marquette County									
Glenoak	01	1905CST			0	0			Hail(1.00)
Marquette County									
6 SE Glenoak	01	1905CST			0	0	2K		Thunderstorm Wind (EG56)
Trees down.									



National Weather Service

Storm Data and Unusual Weather Phenomena



July 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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WISCONSIN, Southeast

Columbia County

1 W Portage	09	1703CST			0	0			Thunderstorm Wind (EG52)
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Few trees reported down.

Milwaukee County

West Allis	09	1710CST 1717CST			0	0			Hail(1.00)
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Waukesha County

Brookfield	09	1715CST			0	0			Hail(1.25)
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Waukesha County

Elm Grove	09	1718CST			0	0			Hail(0.75)
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Waukesha County

2 NNW New Berlin	09	1720CST			0	0			Thunderstorm Wind (MG57)
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Milwaukee County

West Allis	09	1725CST			0	0			Hail(1.00)
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Milwaukee County

West Allis	09	1725CST			0	0			Thunderstorm Wind (EG52)
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Milwaukee County

2 SW West Allis	09	1726CST			0	0			Hail(0.75)
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Milwaukee County

1 E West Allis	09	1729CST			0	0			Hail(1.00)
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Milwaukee County

Milwaukee	09	1730CST			0	0			Hail(1.00)
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Milwaukee County

6.5 SW Milwaukee	09	1730CST			0	0			Hail(1.00)
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Some small tree branches down due to hail.

Milwaukee County

West Allis	09	1732CST			0	0			Hail(1.00)
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Milwaukee County

1 S Oak Creek	09	1755CST			0	0			Hail(0.75)
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Waukesha County

3 SE Brookfield	09	1800CST 2000CST			0	0	2K		Flash Flood
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Off ramps flooded at Moreland Road and I-94. Flash flood waters eroded dirt and grass on road shoulders. About 1.50 inches of rain fell in 20 minutes ending at 1710CST on the west side of Brookfield.

Milwaukee County

2.2 NW Greenfield to West Allis	09	1815CST			0	0	5K		Thunderstorm Wind (EG56)
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Two foot diameter tree with power lines down at 105th Street and Beloit Road. Trees and power lines toppled or damaged in West Allis. About 4400 customers lost electrical power in West Allis.

Dane County

6 S Cross Plains	09	1824CST			0	0			Thunderstorm Wind (EG56)
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Large trees and tree limbs down.

Waukesha County

Sussex to Elm Grove	09	1830CST 1850CST			0	0	75K		Thunderstorm Wind (EG56)
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Trees and power-lines uprooted and/or damaged. About 30,000 customers lost electrical power.



National Weather Service

Storm Data and Unusual Weather Phenomena



July 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
<u>WISCONSIN, Southeast</u>									
Dane County									
4.2 WSW Madison	09	1834CST			0	0			Thunderstorm Wind (EG52)
Several trees fell onto roads, blocking them.									
Waukesha County									
Brookfield	09	1840CST			0	0			Hail(0.75)
Waukesha County									
1 SW Brookfield	09	1841CST			0	0			Hail(0.75)
Waukesha County									
Brookfield	09	1844CST 1845CST			0	0			Hail(1.00)
Hail covered the ground white.									
Dane County									
1 NW Mc Farland	09	1848CST			0	0			Hail(1.25)
Milwaukee County									
West Allis	09	1900CST 2030CST			0	0	30K		Flash Flood
Cleveland Ave. was closed due to flash flood waters up to 2 to 3 feet deep. Several cars stalled and were damaged. Roughly half of the streets in West Allis had flood waters of varying depth. Some basement flooding was reported, with some contents damaged.									
Dane County									
Monona	09	1910CST			0	0			Thunderstorm Wind (EG56)
Multiple trees down.									
Waukesha County									
2 WNW North Prairie	09	1915CST			0	0			Hail(0.75)
Hail covered the ground white at County Road GG and Rue Park Road.									
Waukesha County									
North Prairie	09	1925CST			0	0			Hail(1.75)
Milwaukee County									
3 N West Allis	09	1933CST 2030CST			0	0	10K		Flash Flood
Southbound Highway 45 was closed at Watertown Plank Road due to flooding. Between 1630CST and 1930CST, 3.81 inches of rain was reported. A couple cars stalled in water that was 3 to 4 feet deep, and they were damaged.									
Milwaukee County									
Milwaukee	09	2000CST 2030CST			0	0	50K		Flash Flood
Two lanes on westbound and eastbound I-94 were closed due to flash flooding near the Marquette Interchange. Some water damaged occurred to construction equipment, and there was some soil erosion.									
Kenosha County									
Kenosha	09	2025CST			0	0			Hail(0.75)
Kenosha County									
Kenosha to Pleasant Prairie	09	2025CST 2030CST			0	0	50K		Thunderstorm Wind (EG56)
Trees and power lines toppled.									
Kenosha County									
4 NW Kenosha	09	2030CST 2200CST			0	0	5K		Flash Flood
Between 2020CST and 2035CST, 1.75 inches of rain fell, resulting in flooded farm field and erosion that washed dirt onto roads.									



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July 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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WISCONSIN, Southeast

Kenosha County

3 NNW Silver Lake to Trevor	09	2059CST 2105CST			0	0			Thunderstorm Wind (EG52)
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Trees down.

Kenosha County

Somers	09	2115CST			0	0			Thunderstorm Wind (EG52)
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Trees down.

A complicated weather scenario developed during the late afternoon and early evening of July 9th. A cold front pushing east into southwestern Wisconsin produced slow moving scattered thunderstorms across south-central Wisconsin as a lake breeze pushed west into the counties of Washington, eastern Waukesha and Racine. This resulted in more slow moving thunderstorms. Some of the storms across south-central Wisconsin pulsed to severe levels producing up to half-dollar sized hail (1.25" in diameter) and wind gusts to 52 knots (60 mph). The storms over southeast Wisconsin were just as strong. However, those storms aligned themselves along the northwest to southeast oriented lake breeze as they tracked very slowly southeast. Additional storms continuously developed on the northwest edge of the line. This resulted in a prolonged period of training storms and torrential rain. Around 5 inches of rain was estimated by WSR-88D Doppler radar across northeast Waukesha County and central Milwaukee County. Flash flooding resulted near the cities of Brookfield (Waukesha Co.), downtown Milwaukee (Milwaukee Co.), West Allis (Milwaukee Co.), and Kenosha (Kenosha Co.) - mainly in the form of several feet of water over roadways and soil erosion.

Two days earlier, on July 7th, in Milwaukee, a female, age 32, died from high temperatures in her residence. The maximum and minimum temperatures for Milwaukee on July 7th were 81 and 61, respectively. Afternoon heat index values on July 7th were in the lower to mid 80s. These values are well below threshold values of 105 needed to generate a StormData event. Therefore, this heat-related death will be considered indirectly-related to heat.

Dane County

4 SW Verona	11	1200CST 1500CST			0	0			Heavy Rain
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Jefferson County

3.5 WSW Lake Mills to Lake Mills	11	1200CST 1500CST			0	0			Heavy Rain
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A series of slow moving thunderstorms dumped heavy rains of around 2 to over 4 inches. Only some minor urban and small stream flooding occurred. No damage was reported as water got up to the top of curbs. A trained spotter southwest of Verona measured 4.12 inches of rain for the afternoon hours. A citizen west of Lake Mills measured 3.71 inches of rain for the afternoon hours. The wastewater treatment plant in Lake Mills picked up 2.76 inches of rain.

WIZ065>066-070>072

Waukesha - Milwaukee - Walworth - Racine - Kenosha

16	1700CST				1	0			Heat
17	1700CST								

A 3-day period of hot and humid conditions affected parts of south-central and southeast Wisconsin, with a 2-day Heat event developing over the southeastern counties. On July 17th, in Milwaukee County, a 45-year-old male died from the effects of heat (directly-related) in his residence. Overnight heat index values never went below 75 the previous night and afternoon heat index values on July 17th topped out at 105 to 107 for at least 3 hours. Actual air temperatures reached the mid-90s on July 17th with dewpoints in the mid-70s. On July 16th, maximum air temperatures were in the lower to mid-90s, dewpoints were in the upper 60s to lower 70s, and heat index values maxed out in the 95 to 100 range. On July 15th, maximum air temperatures were in the lower to mid-90s, dewpoints were in the lower to mid- 60s, and heat index values maxed out in the 95 to 100 range. M45PH



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July 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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WISCONSIN, Southeast

Fond Du Lac County

Rosendale 17 1248CST 0 0 Hail(0.75)

Dodge County

Lomira 17 1305CST 0 0 5K Thunderstorm Wind (EG56)
Trees and power-lines down. Garage door blown in.

Fond Du Lac County

.7 N Campbellsport 17 1305CST 0 0 3K Thunderstorm Wind (EG56)
Trees down.

Sheboygan County

2 SW Beechwood to
Random Lake 17 1309CST
1330CST 0 0 10K Thunderstorm Wind (EG65)
Trees and power lines down.

Sheboygan County

7 W Cascade 17 1309CST 0 0 10K Thunderstorm Wind (EG56)
Trees and power-lines down.

Fond Du Lac County

Dundee 17 1315CST 0 0 Hail(0.75)

Washington County

2 E Boltonville 17 1317CST 0 0 Hail(0.75)

Sheboygan County

(Sbm)Sheboygan Co Ar 17 1335CST 0 0 Thunderstorm Wind (MG53)

Sheboygan County

Kohler 17 1339CST 0 0 Hail(0.88)

Sheboygan County

4 NE Oostburg to
Sheboygan 17 1340CST
1345CST 0 0 100K Thunderstorm Wind (EG65)

Barn reported down with horses inside northeast of Oostburg. A roof antenna and weather station south of Sheboygan were damaged by the wind gusts. Tree and power-line damage around the city of Sheboygan where about 12,000 customers were without power. City work crews in Sheboygan had about 200 locations across the city where tree debris had to be cleaned up. Clean-up and overtime costs were unknown, but were probably substantial. Several homes had trees leaning onto roofs, and at least one vehicle was damaged when a tree fell on it.

Sheboygan County

3.5 SE Sheboygan Falls 17 1340CST 0 0 2K Thunderstorm Wind (EG61)
Semi truck blown over about 1 mile north of Interstate 43 interchange with CTH V. Slight damage

Marquette County

3 N Budsin 17 1617CST 0 0 Hail(0.75)

Marquette County

8.5 NE Westfield 17 1617CST 0 0 Hail(0.75)

Marquette County

Neshkoro 17 1635CST 0 0 Hail(0.88)

Green Lake County

3 W Berlin 17 1655CST 0 0 Hail(0.88)

Columbia County

1.5 N Friesland 17 1750CST 0 0 Hail(1.00)

Columbia County

Cambria 17 1830CST 0 0 Hail(0.75)



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Storm Data and Unusual Weather Phenomena



July 2006

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WISCONSIN, Southeast

Fond Du Lac County

3 NW Campbellsport 17 1850CST 0 0 Hail(1.00)

Sheboygan County

1.5 WNW Sheboygan Fal 17 1855CST 0 0 Hail(0.75)

Ozaukee County

1.5 E Belgium 17 1935CST 0 0 Hail(0.75)

Lafayette County

1 E South Wayne 17 2017CST 0 0 2K Thunderstorm Wind (EG52)
Large trees and tree limbs down.

Washington County

Hartford 17 2018CST 0 0 Hail(0.75)

Green County

2 SW Browntown to 3.5 SE Browntown 17 2020CST 0 0 15K Thunderstorm Wind (EG52)
Trees and some power-lines down in the area southwest through southeast of Browntown, including Browntown.

Kenosha County

Twin Lakes to Trevor 17 2140CST 0 0 5K Thunderstorm Wind (EG52)
2145CST
Trees down.

Racine County

1.5 NW Kansasville 17 2200CST 0 0 10K Thunderstorm Wind (EG56)
Tree and power-line damage in the Eagle Lake area northwest of Kansasville.

Walworth County

Zenda 17 2212CST 0 0 5K Thunderstorm Wind (EG52)
Trees down.

Kenosha County

Kenosha to Pleasant Prairie 17 2235CST 0 0 20K Thunderstorm Wind (EG56)
2255CST
Areas of toppled trees and broken tree branches, along with power-line damage, reported across the cities of Kenosha and Pleasant Prairie.

Racine County

Racine 17 2250CST 0 0 5K Thunderstorm Wind (EG52)
Trees down.

Two rounds of severe storms affected parts of south-central and southeast Wisconsin on July 17th. The first round occurred during the early afternoon hours over the counties of Dodge, Fond du Lac, Washington, and Sheboygan. By 1250CST the storms had organized into a bow echo line extending from Lake Winnebago south to near West Bend and Hartford in Washington County and then west to the Columbus area in southeastern Columbia County. This bow echo then moved east to out over Lake Michigan. Dime-size hail and thunderstorm wind gusts up to 65 knots (75 mph) resulted with some of these storms. Tree and power-line damage was reported in addition to some structural damage in Dodge and Sheboygan counties. A semi-truck was also blown off InterState 43. After a brief lull from thunderstorms, more storms developed during the evening hours across the remainder of south-central and southeast Wisconsin. These storms produced dime to quarter-sized hail and wind gusts to around 52 knots (60 mph). Mainly tree damage was reported with these storms.

Interestingly, the cluster of severe storms that affected the southern parts of Lafayette and Green Counties moved east-southeast to McHenry County in northeastern Illinois. A strong thunderstorm gust front (outflow boundary), associated with the McHenry County thunderstorms, pushed north into southeastern Wisconsin. The gust front winds knocked down some trees in the Twin Lakes-Trevor area of western Kenosha County, and the Eagle Lake area northwest of Kansasville in south-central Racine County. No precipitation was associated with these outflow winds in Kenosha and Racine County. Eventually this gust front merged with another south-moving frontal boundary over the central portions of Racine County. Severe thunderstorms quickly popped up in this merger zone over central Racine County, and eventually they moved southeast through the remainder of Racine and Kenosha Counties (round #2 of severe weather for July 17th). Synoptically, a strong, mid-level short wave trough traveled east through Wisconsin during the afternoon and evening hours. Hot temperatures in the mid-90s with dew points in the low to mid-70s, and cooler air aloft, caused extreme instability to increase through the day which allowed for rapid thunderstorm development



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July 2006

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WISCONSIN, Southeast

Columbia County 4 W Pardeeville	20	0030CST			0	0			Hail(0.88)
Iowa County Avoca to 3 SE Hollandale	20	0105CST 0125CST			0	0	50K		Thunderstorm Wind (EG65)
Trees and power lines reported down countywide.									
Sauk County La Valle to Sauk City	20	0105CST 0120CST			0	0	50K		Thunderstorm Wind (EG65)
Trees and power lines reported down countywide.									
Columbia County Portage to 5 N Portage	20	0109CST 0118CST			0	0	10K		Thunderstorm Wind (EG56)
Trees toppled and some power-lines downed									
Dane County 5 W Madison to 4 E Madison	20	0125CST 0145CST			0	0	150K		Thunderstorm Wind (EG65)
Bricks were taken off a building in downtown Madison due to severe, hurricane-force wind gusts to an estimated 65 knots (75 mph). Dozens of power-lines were damaged. At least 3 vehicles were either damaged or destroyed by fallen trees. Many roads were blocked by the tree debris. A large tree was toppled onto a home on the near east side of Madison, resulting in minor roof damage.									
Lafayette County Belmont	20	0125CST			0	0	5K		Thunderstorm Wind (EG65)
Trees and power lines down.									
Columbia County Pardeeville	20	0127CST			0	0			Thunderstorm Wind (EG56)
Columbia County 2 ESE Wisconsin Dells	20	0130CST			0	0			Thunderstorm Wind (EG52)
Lafayette County 7 N Argyle to Argyle	20	0132CST 0135CST			0	0	20K		Thunderstorm Wind (EG65)
Trees and power lines down.									
Dane County 5 NW Madison	20	0134CST 0140CST			0	0			Hail(0.75)
Dane County Blue Mounds to Mt Horeb	20	0135CST 0140CST			0	0	10K		Thunderstorm Wind (EG56)
Trees and power-lines down.									
Dane County 4 NE Monona	20	0140CST			0	0	15K		Thunderstorm Wind (MG71)
Hurricane force wind gusts to 71 knots (82 mph) produced tree and power line damage 4.0 miles northeast of Monona									
Dane County 4 NNE Sun Prairie	20	0140CST			0	0			Thunderstorm Wind (EG52)
Trees down.									
Green County New Glarus	20	0145CST			0	0	10K		Thunderstorm Wind (EG65)
A car was crushed and a truck's window was broken by falling trees. Antennas also damaged.									
Lafayette County Shullsburg	20	0145CST			0	0	5K		Thunderstorm Wind (EG65)
Trees and power lines down.									



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July 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>WISCONSIN, Southeast</u>									
Dane County									
2.7 ESE Albion	20	0150CST			0	0	2K		Thunderstorm Wind (EG56)
			Trees down. One large tree fell on a home's roof, resulting in minor damage.						
Rock County									
Union to 4 SE Clinton	20	0155CST 0225CST			0	0	75K		Thunderstorm Wind (EG56)
			Trees and power lines down in a large swath from northwestern to southeastern Rock County. In the city of Janesville, at least 3 cars were damaged by felled trees or tree branch debris. Several roads were temporarily blocked by tree debris.						
Dodge County									
2 NNW Portland	20	0157CST			0	0	5K		Thunderstorm Wind (EG56)
			Trees and power lines down.						
Jefferson County									
Waterloo	20	0158CST			0	0	5K		Thunderstorm Wind (EG56)
			Trees and power lines down.						
Dane County									
Belleville	20	0200CST			0	0	5K		Thunderstorm Wind (EG52)
			Large tree branches and power lines down.						
Dodge County									
4 W Theresa	20	0200CST			0	0			Thunderstorm Wind (EG52)
			Trees down.						
Green County									
Albany to Brodhead	20	0210CST 0212CST			0	0	20K		Thunderstorm Wind (EG56)
			Trees, power lines, and antennas down. One large tree fell onto a vehicle in Brodhead, resulting in minor damage.						
Green County									
1 NE Dayton	20	0210CST			0	0	10K		Thunderstorm Wind (EG65)
			Strong winds at minimum hurricane-force caused trees to topple onto roads. Some power-lines down. Some cars then crashed into fallen trees in Brooklyn.						
Jefferson County									
Ft Atkinson	20	0218CST			0	0	25K		Thunderstorm Wind (EG56)
			Trees toppled over. Two small planes at the Ft. Atkinson Municipal Airport broke loose from their moorings due to the powerful winds. One of the plane's wings were damaged as it tipped from side to side.						
Jefferson County									
Rome	20	0225CST			0	0			Thunderstorm Wind (EG56)
			Tree down.						
Rock County									
Milton	20	0225CST			0	0	15K		Lightning
			Lightning struck a barn causing it to catch fire.						
Rock County									
2 E Milton	20	0230CST			0	0	50K		Lightning
			Lightning struck a barn, and the resultant fire burned the empty barn to the ground.						
Washington County									
Richfield	20	0230CST			0	0	5K		Thunderstorm Wind (EG56)
			Trees and power lines down.						
Waukesha County									
4 SSW Dousman	20	0230CST			0	0			Thunderstorm Wind (EG52)
			Tree limbs and trees down.						



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July 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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WISCONSIN, Southeast

Walworth County

Darien to Walworth 20 0235CST
0242CST 0 0 10K **Thunderstorm Wind (EG52)**
Trees and power lines down.

Waukesha County

Brookfield 20 0240CST 0 0 10K **Thunderstorm Wind (EG52)**
Power lines down.

Walworth County

2 E Lake Geneva 20 0250CST 0 0 5K **Thunderstorm Wind (EG52)**
Trees and power lines down.

Racine County

Burlington 20 0255CST 0 0 10K **Thunderstorm Wind (EG52)**
Trees and power lines down.

Kenosha County

Paddock Lake 20 0310CST 0 0 10K **Thunderstorm Wind (EG52)**
Trees and tree branches fell onto power lines.

Racine County

Sturtevant 20 0330CST 0 0 10K **Lightning**
Lightning struck a home in the 3200 block of 90th St., resulting in a roof fire.

Milwaukee County

Milwaukee 20 0400CST 0 0 15K **Lightning**
Lightning struck a home in the 1800 block of W. Greenfield Ave., resulting in a roof fire

Racine County

Racine 20 0430CST 0 0 10K **Lightning**
Lightning struck a home on in the 1600 block of Edgewood Ave., resulting in a roof fire

Sheboygan County

3 NE Beechwood 20 0430CST 0 0 5K **Lightning**
Lightning struck a power-line voltage regulator, disrupting power to about 100 homes on CTH S.

Dane County

5 S Blue Mounds 20 0514CST 0 0 **Thunderstorm Wind (EG52)**
Tree and tree branches down.

Green County

New Glarus 20 0523CST 0 0 **Thunderstorm Wind (EG52)**
Trees down.

Green County

Albany 20 0542CST 0 0 **Hail(0.75)**

Fond Du Lac County

1 W Elmore 20 0704CST 0 0 80K **Lightning**
Lightning struck a rural home and the resultant fire burned the house to the ground.

During the pre-dawn early morning hours of July 20th, a severe squall line pushed into south-central and southeast Wisconsin from southern Minnesota. This squall line produced mainly damaging winds, some reports being "significant" (>65 knots or hurricane-force), and only a couple hail reports. One of the significant reports was at a location 4 miles northeast of Monona at 0140CST where a gust of 71 knots (82 mph) was measured, before the power went out. Hundreds of trees were knocked down in the Madison area, and there were dozens power-line damage reports. Up to 40,000 customers lost electrical power across southern Wisconsin, with 13,000 alone in the Madison area. The squall line weakened as it approached the corner of southeast Wisconsin due to weakening instability, despite still favorable deep layer shear. Toward dawn, more scattered thunderstorms developed across south-central Wisconsin as a northwest to southeast axis of instability redeveloped. A few of these storms pulsed up to produce only marginal severe hail and wind.



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July 2006

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WISCONSIN, Southeast

Sauk County									
3 NW Loganville	22	1348CST			0	0			Hail(1.75)
Sauk County									
Reedsburg	22	1350CST			0	0			Hail(1.00)
Sauk County									
Reedsburg	22	1350CST			0	0	5K		Thunderstorm Wind (MG55)
Trees and power-lines down.									
Sauk County									
3 SE Loganville	22	1400CST			0	0			Hail(1.75)
Sauk County									
6 W Prairie Du Sac	22	1420CST			0	0			Hail(1.75)
Iowa County									
5 E Mineral Pt	22	1455CST			0	0			Hail(1.00)
Columbia County									
8 ESE Wisconsin Dells	22	1458CST			0	0			Hail(0.75)
Lafayette County									
Argyle	22	1515CST			0	0			Hail(0.75)
Lafayette County									
2 S South Wayne	22	1515CST			0	0			Hail(1.00)
Sauk County									
7 ENE Baraboo	22	1525CST			0	0			Hail(0.75)
Dane County									
2 S Waunakee	22	1526CST			0	0			Hail(0.75)
Dane County									
1 SW Madison	22	1552CST			0	0			Thunderstorm Wind (EG50)
Trees were toppled.									
Lafayette County									
6 WSW South Wayne	22	1555CST			0	0			Hail(1.00)
Milwaukee County									
Wauwatosa to 2 SSE Milwaukee	22	1731CST 1735CST			0	0			Hail(1.00)

Widely scattered thunderstorms developed across south-central and southeast Wisconsin during the afternoon of July 22nd as convective inhibition diminished. Cold air aloft and low freezing levels made it easy for storms to produce large hail and a few reports of damaging, straight-line winds. Up to golf-ball sized hail was noted. The storms diminished quickly as instability subsided toward evening.

On July 22nd, a female, age 94, died due to elevated temperatures in her residence in Monroe (Green Co.). She was not using her air-conditioner. Outside maximum and minimum air temperatures on July 22nd in the Monroe area were about 80 and 58, respectively. Afternoon heat index values maxed out in the lower 80s, well below official threshold values of 105 needed to generate a heat event in StormData. Therefore, this heat-related death will be considered as an indirectly-related heat death. It is possible that the three hot days of July 15-17, with maximum air temperatures in the mid 90s and overnight lows of 70-75, may have weakened the 94-year-old female (pre-conditioned). Heat index values reached 95 to 100 on July 15th in the Monroe area.

Racine County

Racine	24	0800CST			0	0	2K		Lightning
Lightning struck the chimney of a home in the 1000 block on Main St. in Racine. There was no fire, but the top portion of the chimney was destroyed, with bricks littering the nearby yard and sidewalk. The time of occurrence, 08CST is only an estimate - all									



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July 2006

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WISCONSIN, Southeast

that is known is that the lightning strike occurred during the morning hours.

Dane County
2.6 NW Roxbury **24** **2030CST** **0** **0** **Thunderstorm Wind (EG56)**
 Large trees, up to 2 to 3 feet in diameter, were toppled.

Dane County
3 NE Dane **24** **2048CST** **0** **0** **10K** **Thunderstorm Wind (EG52)**
 Trees toppled, and lots of branches broken. Corn stalks broken/blown down at a 45 degree angle.

Isolated thunderstorms developed across Dane County during the evening of July 24th. These storms produced some straight-line wind damage near the villages of Dane and Roxbury before dissipating a short time later.

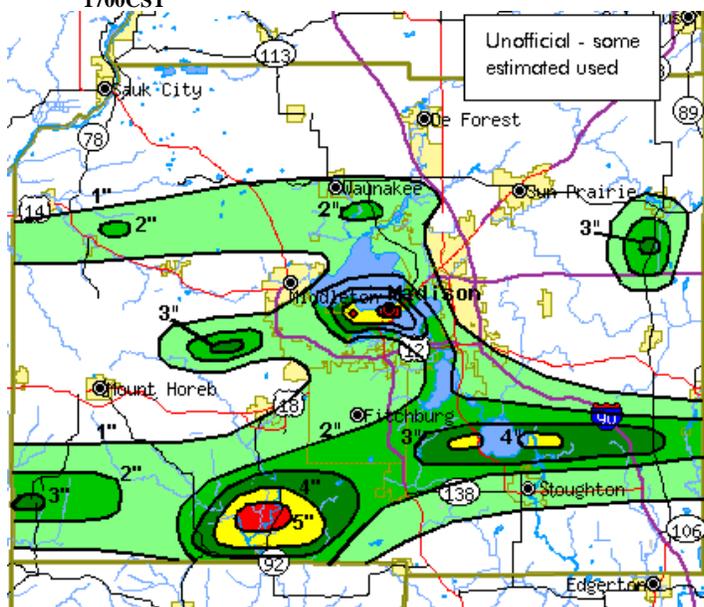
Dane County
2.2 S Madison **27** **1115CST** **0** **0** **5K** **Thunderstorm Wind (EG52)**
 Trees and power-lines down near the south Beltline.

Dane County
2 SW Paoli **27** **1130CST**
 1300CST **0** **0** **Heavy Rain**

Heavy rains of 4 to 5 inches fell over the area just southwest and south of Paoli within 90 minutes, based on WSR-88D Doppler radar estimates. There were no reports of flash flooding that would result in property or crop damage. However, some small streams in the area probably flooded for an hour or so, and then receded. In addition, some low-lying roads probably had some water on them. Refer to the Madison flash flood event write-up to see a rainfall graphic of Dane County for July 27th

Dane County
2 NW Stoughton **27** **1228CST** **0** **0** **Funnel Cloud**
 Funnel cloud observed at Highway 51 and County Road B.

Dane County
6 W Madison to **27** **1230CST** **0** **0** **10M** **Flash Flood**
2 NE Madison **1700CST**



A composite of official rainfall amounts from gage sites as well as WSR-88D Doppler radar rainfall estimates. A 1-in-a-100-year flash flood occurred from the west side of Madison to around the Capitol Square after 3 to 5 inches of rain fell



National Weather Service

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July 2006

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WISCONSIN, Southeast

within a 90 minute timeframe. There were no reports of injuries or deaths. The heavy rain resulted from slow-moving and back-building thunderstorms that essentially remained nearly stationary over the city of Madison. The hilly terrain and a typical urban setting of a lot of concrete and asphalt enable the runoff water to quickly overwhelm the storm sewers and concentrate water in low-lying areas of the city. Water depths reach to the top of small vehicles - 4 to 5 feet deep in spots. Many roads became impassable due to the flood waters, and many residential homes and businesses on or near the UW-Madison campus had flooded basement and first-floor flooding. Some basement apartment units had water depths of 6 to 8 feet. Nearly all campus buildings had flooding of varying degrees of intensity, and the Camp Randall football field sustained damage. Some campus buildings had flat roofs that quickly flooded as storm drains became plugged - which allowed water to run thru the walls and ceilings of buildings. The buildings that sustained the most damage were the Memorial Union, Computer Sciences, and Veterinary Medicine. Numerous vehicles on or near the campus were damaged or totaled by the flood waters, and some were reported to be floating away. Unofficial rain gages measured 4.5 to 5 inches from just west of West High School up to the Capitol Square. WSR-88D Doppler rainfall estimates were in the 3 to 5 inch rain, therefore it appears the unofficial rain gages were very accurate. Rainfall amounts quickly fell off to 1 to 1.5 inches near the south Beltline (STH14/18/151). It is nearly impossible to assess the monetary value of the flash flood damage, therefore, the amount posted in the header strip of this event is only a ballpark estimate

Dane County

3 SSE Utica	27	1300CST			0	0			Thunderstorm Wind (EG56)
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Trees down.

Waukesha County

Eagle	27	1318CST			0	0			Thunderstorm Wind (EG52)
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Trees down on County Road ZZ.

Jefferson County

3 N Ft Atkinson to 2 WNW Hebron	27	1325CST			0	0			Thunderstorm Wind (EG52)
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Trees down.

Jefferson County

Busseyville	27	1327CST			0	0			Thunderstorm Wind (EG52)
--------------------	----	---------	--	--	---	---	--	--	---------------------------------

Trees down.

Waukesha County

Pewaukee to Waukesha	27	1343CST 1350CST			0	0	20K		Thunderstorm Wind (EG56)
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Multiple reports of trees and power-lines down.

Waukesha County

Waukesha	27	1345CST			0	1			Lightning
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A man was injured and taken to a hospital after lightning struck very close to him. It is unknown where he was in the city of Waukesha, nor is the exact time known. He was treated and released from the hospital.

Waukesha County

2 S Waukesha	27	1410CST			0	0			Thunderstorm Wind (EG61)
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Trees down.

Waukesha County

Big Bend	27	1430CST			0	0	5K		Thunderstorm Wind (EG52)
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Trees and power lines down.

Racine County

Rochester	27	1440CST			0	0			Thunderstorm Wind (EG52)
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Tree down.

Washington County

Kewaskum	27	1450CST			0	0	5K		Thunderstorm Wind (EG52)
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Trees and power lines down.

Waukesha County

2 NW Waukesha to 6 SSE Waukesha	27	1454CST 1600CST			0	0	3M	500K	Flash Flood
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National Weather Service

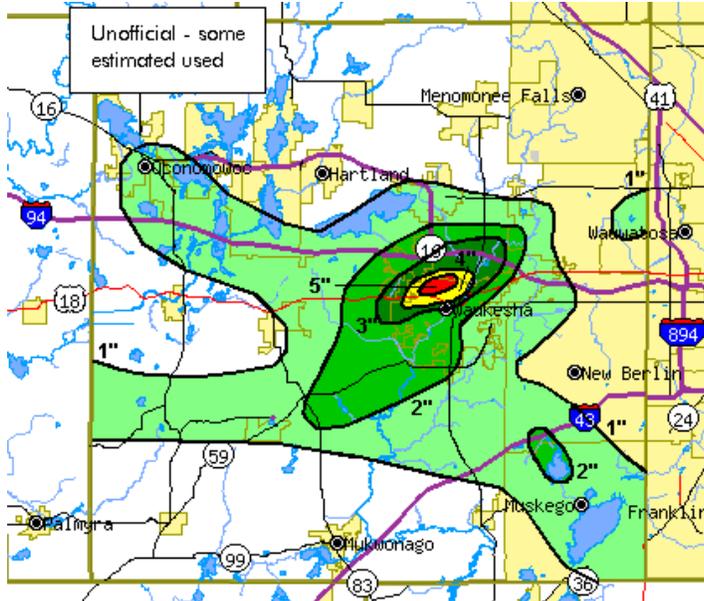
Storm Data and Unusual Weather Phenomena



July 2006

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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WISCONSIN, Southeast



Composite rainfall graphic based on rainfall amounts from official gage sites and WSR-88D Doppler radar estimates.

A 1-in-a-100-year flood occurred in and around the city of Waukesha after a heavy rain of 3 to 5 inches within a 2-hr period. The heavy rains were the result of slow-moving or back-building thunderstorms that essentially sat over the same area. There were no reports of injuries or deaths. Numerous roads and yards were flooded with water depths of 1 to 5 feet. Many vehicles were stalled in the deep waters or were damaged. There were numerous reports of flooded basements of homes or businesses or apartments. The roof of one business in downtown Waukesha collapsed due to the weight of the heavy rains. The Fox River in downtown Waukesha exceeded its 6-foot flood stage by 6 inches, and then quickly subsided. Some nearby farm fields reported washed out sections and crop losses. The Expo Center sustained damage as well to several of its buildings. The basement of the downtown Waukesha Fire Department flooded to the depth of 5 feet. This flooding was the result of a collapsed trench outside the building where a new addition was under construction. At one point, Waukesha city officials warned motorists to stay away from the city, and some officials thought the July 27th flooding was the worst they could remember. WSR-88D Doppler radar rainfall estimates indicated that up to 5 inches fell over the northwest portion of the city of Waukesha, tapering off to 2 inches on the far south side of the city where STH 59 is located. One unofficial rain gage catch was 4.25 inches on the north side of the city, which matched the radar estimate. It is nearly impossible to assess the monetary amount of the flash flood damage, therefore, the amount posted in the header strip of this event is only a rough estimate.

Racine County

Waterford to Union Grove

27	1455CST 1505CST			0	0	5K		Thunderstorm Wind (EG52)
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Trees and power lines down.

Kenosha County

Twin Lakes to Paddock Lake

27	1525CST 1530CST			0	0	5K		Thunderstorm Wind (EG52)
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Trees and power lines down.

A similar scenario to that of July 9, 2006 occurred again on the afternoon of July 27th. Very slow moving scattered thunderstorms developed across portions of south-central and southeast Wisconsin. A lake breeze fired additional storms across Waukesha County. With propagation speeds often less than 15 mph, torrential rains resulted underneath these storms. Nearly stationary storms over the Madison and Waukesha areas produced 4 to 5 inches of rain within about 90 minutes. Flash flooding resulted in these locales with



National Weather Service

Storm Data and Unusual Weather Phenomena



July 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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WISCONSIN, Southeast

many buildings and vehicles sustaining varying degrees of damage. The UW-Madison campus was especially hit hard. See the specific write-ups as flash flood entries above. Other smaller cities in Dane and Waukesha counties also experienced some minor urban flooding, but these reports did not warrant a separate line-item entry above. Other storms across the area pulsed to severe limits to produce damaging winds to about 61 knots (70 mph) and one funnel cloud report at 1228CST at a location 2 miles northwest of Stoughton (Dane Co.). The major electrical companies estimated that about 10,000 customers were without electrical power at one time or another on July 27th, due to tree debris or lightning striking power-lines.

Green Lake County

Berlin	30	0610CST			0	0			Thunderstorm Wind (EG52)
			Trees down.						

Marquette County

Countywide	30	0615CST 0630CST			0	0	5K		Thunderstorm Wind (EG56)
			Tree and power line damage scattered across the whole county.						

Fond Du Lac County

2 SW Ripon	30	0630CST			0	0	5K		Thunderstorm Wind (EG56)
			Trees and power lines reported down.						

Fond Du Lac County

Taycheedah	30	0632CST			0	0	5K		Thunderstorm Wind (EG56)
			Trees and power lines down.						

Sheboygan County

Cascade	30	0650CST			0	0			Hail(0.88)
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Sheboygan County

Cascade	30	0650CST			0	0			Thunderstorm Wind (EG52)
			Trees down.						

Dodge County

Beaver Dam	30	0700CST			0	0	5K		Thunderstorm Wind (EG52)
			Trees and power-lines down.						

Dodge County

2 NE Lomira	30	0703CST			0	0	5K		Thunderstorm Wind (EG52)
			Trees and power-lines down.						

Washington County

Kewaskum	30	0705CST 0715CST			0	0	15K		Thunderstorm Wind (EG56)
			Trees and power-lines down across the northern portions of Washington County.						

Marquette County

6 ENE Briggsville	30	0706CST			0	0			Thunderstorm Wind (EG52)
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Fond Du Lac County

1 E Ashford	30	0711CST			0	0	5K		Thunderstorm Wind (EG52)
			Trees and power-lines down.						

Columbia County

7 NNE Portage	30	0718CST			0	0	5K		Thunderstorm Wind (EG56)
			Trees and power-lines reported down.						

Ozaukee County

2 NW Cedarburg	30	0740CST			0	0	5K		Thunderstorm Wind (EG56)
			Trees and power-lines reported down.						

Jefferson County

3 NE Ixonia	30	0752CST			0	0			Thunderstorm Wind (EG52)
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Milwaukee County

5.7 NW Milwaukee	30	0800CST			0	0	50K		Thunderstorm Wind (EG61)
			Powerful wind gusts to an estimated 61 knots (70 mph) took the roof of a lumberyard off, which took down nearby power-lines. Around 45 customers were without power for a time as a result. Large trees and powerlines were toppled						



National Weather Service

Storm Data and Unusual Weather Phenomena



July 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

WISCONSIN, Southeast

Racine County

2 SE Sturtevant	30	0908CST			0	0			Hail(0.75)
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Racine County

Racine	30	0910CST			0	0	3K		Lightning
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Lightning hit a tree, which then fell onto a car in the city of Racine.

Scattered clusters of thunderstorms developed during the mid-morning hours and moved southeast with time. These storms produced mainly damaging winds up to 61 knots (70 mph), and some isolated large hail. Vivid lightning was also noted. Lightning hit a tree in Racine around 0910CST causing it to fall onto and lightly damage a car. About 15,000 customers were without electrical power due to tree damage to power-lines.

WIZ051>052-056>060-062>072

Fond Du Lac - Sheboygan - Sauk - Columbia - Dodge - Washington - Ozaukee - Iowa - Dane - Jefferson - Waukesha - Milwaukee - Lafayette - Green - Rock - Walworth - Racine - Kenosha

30	1800CST				0	40			Heat
31	2359CST								

A period of very hot and humid weather began on the evening of July 30th and continued into August 2nd. Overnight temperatures only fell to 70 to 75 on the 30th, and soared into the 95 to 100 degree range during the afternoon of July 31st. With dew points in the low to mid-70s, heat index values only dropped to about 75 overnight on July 30th, and peaked in the 105 to 110 degree range across south-central and southeast Wisconsin during the afternoon of July 31st. An estimated 40 people in Milwaukee County were hospitalized due to heat-related symptoms. For information about the August portion of this heat wave, consult the August 2006 StormData publication.



National Weather Service

Storm Data and Unusual Weather Phenomena



August 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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LAKE MICHIGAN

LMZ644 .7 SE Port Washington	01	1910CST	Pt Washington To North Pt	Lt Wi	0	0			Marine Tstm Wind (MG36)
LMZ644 2 NNW North Point Lth	02	1620CST	Pt Washington To North Pt	Lt Wi	0	0			Marine Hail (0.88)
LMZ646 4 NE Racine to Racine	23	1348CST	Wind Pt Lt Wi To Winthrop	Hbr II	0	0			Marine Hail (0.75)
LMZ645 Milwaukee Harbor	23	1457CST	North Pt Lt To Wind Pt	Wi	0	0			Marine Hail (0.75) A line of thunderstorms crossed southern Wisconsin and moved out over Lake Michigan during the early afternoon hours
LMZ646 2.2 ESE Kenosha	24	0847CST	Wind Pt Lt Wi To Winthrop	Hbr II	0	0			Marine Hail (0.75)
LMZ645 Milwaukee Harbor	25	0700CST	North Pt Lt To Wind Pt	Wi	0	0			Marine Tstm Wind (MG35) A low pressure system tracked across southern Wisconsin and generated thunderstorms that moved over Lake Michigan during the morning hours.
LMZ646 3 E Racine	29	0630CST	Wind Pt Lt Wi To Winthrop	Hbr II	0	0			Waterspout A brief waterspout was observed by many people. It formed along a shear line set up by a land breeze. Towering cumulus clouds were noted along with some rain showers in the vicinity, but there were no thunderstorms
LMZ646 2.5 ESE Racine	29	0645CST	Wind Pt Lt Wi To Winthrop	Hbr II	0	0			Waterspout A brief waterspout was observed by many people. It formed along a shear line set up by a land breeze. Towering cumulus clouds were noted along with some rain showers in the vicinity, but there were no thunderstorms
LMZ646 2 SE Racine	29	0715CST	Wind Pt Lt Wi To Winthrop	Hbr II	0	0			Waterspout A brief waterspout was observed by many people. It formed along a shear line set up by a land breeze. Towering cumulus clouds were noted along with some rain showers in the vicinity, but there were no thunderstorms
LMZ646 3 E Kenosha	29	0720CST	Wind Pt Lt Wi To Winthrop	Hbr II	0	0			Waterspout A brief waterspout was observed by many people. It formed along a shear line set up by a land breeze. Towering cumulus clouds were noted along with some rain showers in the vicinity, but there were no thunderstorms

WISCONSIN, Southeast

WIZ051>052-056>060-062>072	01 02	0000CST 1100CST	Fond Du Lac - Sheboygan - Sauk - Columbia - Dodge - Washington - Ozaukee - Iowa - Dane - Jefferson - Waukesha - Milwaukee - Lafayette - Green - Rock - Walworth - Racine - Kenosha						2 0	0 0	Heat
This heat event for August 1st-2nd is a continuation of the same heat event that started on the evening of July 30th. Ultimately, this stretch of "heat advisory" conditions resulted in two directly-related heat deaths in Milwaukee County where the urban heat-island effect is enhanced. Air temperatures only fell into the mid 70s across south-central Wisconsin and lower 80s in the Milwaukee Metro area during the early-morning of August 1st. Afternoon air temperatures soared into the 95 to 100 degree range. With dew points in the low to mid-70s, heat index values only dropped into the lower 80s during the morning of the 1st, and peaked in the 105 to 110 degree range across south-central and southeast Wisconsin during the afternoon of August 1st. The oppressive conditions continued during the overnight hours of August 1st with low temperatures around 80 degrees before a cold front swept through during the afternoon, ending the heat wave. On August 2nd, a 67-year-old male died due to high temperatures in his West Allis											



National Weather Service

Storm Data and Unusual Weather Phenomena



August 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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WISCONSIN, Southeast

(Milwaukee Co) residence. Likewise on August 2nd, a 41-year-old male died in his residence due to elevated levels of heat. For information about the July portion of this heat wave, consult the July 2006 StormData publication. M67PH, M41PH

Washington County

Jackson to 5 NE Jackson	01	1840CST 1853CST			0	0			Thunderstorm Wind (MG51)
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Washington County

Jackson to 5 NE Jackson	01	1850CST 1853CST			0	0			Hail(0.75)
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Washington County

2 E Slinger to 3 N Jackson	01	1850CST			0	0			Thunderstorm Wind (EG50)
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Trees down.

Ozaukee County

5 WSW Saukville	01	1858CST			0	0			Thunderstorm Wind (EG50)
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Trees down.

Ozaukee County

3 NW Cedarburg	01	1945CST			0	0			Thunderstorm Wind (EG56)
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Trees down.

Isolated thunderstorms developed during the early evening hours in response to moderate instability and jet dynamics. These storms pulsed to severe levels and produced a few damaging wind reports and a large hail report

Washington County

West Bend to 6 NE Jackson	02	1440CST 1450CST			0	0	5K		Thunderstorm Wind (EG50)
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Trees down due to powerful thunderstorm winds. One large tree branch damaged three parked vehicles in West Bend

Ozaukee County

3 WNW Saukville to Saukville	02	1455CST 1500CST			0	0	15K		Thunderstorm Wind (EG50)
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Trees and power-poles down.

Washington County

5 ESE Jackson	02	1510CST			0	0			Thunderstorm Wind (EG50)
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Trees down.

Ozaukee County

Cedarburg	02	1525CST			0	0	75K		Lightning
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Lightning struck a downtown Cedarburg building's chimney. The collapsed chimney then tore a hole in the roof, allowing rain water to run into the building and damage some contents.

Ozaukee County

Thiensville	02	1530CST			0	0			Thunderstorm Wind (EG50)
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Tree branches down.

Milwaukee County

Shorewood	02	1620CST			0	0			Hail(0.88)
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Walworth County

Delavan	02	1710CST			0	0	50K		Lightning
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Lightning struck a church steeple, setting it on fire. The remainder of the church building was saved.

Waukesha County

2 ESE Muskego	02	1730CST			0	0			Thunderstorm Wind (EG50)
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Trees down.

Dodge County

2 S Juneau	02	1910CST			0	0			Funnel Cloud
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A brief funnel cloud was witnessed at county roads A and W.



National Weather Service

Storm Data and Unusual Weather Phenomena



August 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

WISCONSIN, Southeast

Scattered thunderstorms developed in south-central Wisconsin along a cold front during the early afternoon hours and pushed into southeast Wisconsin during the late afternoon hours. Some storms became severe producing damaging winds to around 60 mph, large hail, and vivid lightning.

Racine County									
Wind Pt	23	1348CST			0	0			Hail(0.75)
Milwaukee County									
4 SE Milwaukee	23	1452CST			0	0			Hail(0.75)
Sauk County									
2 SW La Valle	23	1855CST			0	0			Hail(0.88)
Sauk County									
3 NW La Valle	23	1855CST			0	0			Hail(0.75)
Sauk County									
Loganville	23	1935CST			0	0			Hail(0.75)
Sauk County									
2 SSE Leland	23	2002CST	0.1	20	0	0		5K	Tornado (F0)
A brief F0 tornado spun up 2.0 miles SSE of Leland. This tornado, seen by a team of advanced severe weather spotters who were chasing the associated supercell, damaged only some vegetation.									
Sauk County									
3 W La Valle to La Valle	23	2004CST 2005CST			0	0			Hail(1.00)
Sauk County									
3 SSE Loganville	23	2031CST			0	0			Hail(1.75)
Marquette County									
3 N Montello	23	2050CST			0	0			Hail(0.75)
Sauk County									
La Valle	23	2128CST 2135CST			0	0			Hail(1.00)
Sauk County									
2 W Ironton	23	2130CST			0	0			Hail(1.00)
Dane County									
1 NE Middleton	23	2146CST			0	0			Hail(1.00)
Dodge County									
Horicon	23	2150CST			0	0			Hail(0.75)
Sauk County									
Leland	23	2158CST			0	0			Hail(1.00)
Dane County									
Black Earth	23	2226CST			0	0			Hail(0.88)
Dane County									
Cross Plains	23	2235CST			0	0			Hail(0.75)
Dane County									
5 ENE Cottage Grove	23	2245CST			0	0			Hail(0.75)
Rock County									
5 ESE Evansville	23	2336CST			0	0			Hail(0.75)
Marquette County									
1 S Oxford	23	2348CST			0	0			Hail(1.75)
Columbia County									
3 N Portage	24	0000CST			0	0	1K		Heavy Rain



National Weather Service

Storm Data and Unusual Weather Phenomena



August 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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WISCONSIN, Southeast

0020CST

Persistent heavy rain caused some basement flooding 3 miles north of Portage.

Columbia County
3 NNE Portage to
4.4 ENE Portage

24	0005CST 0015CST								
		0	0			100K			Hail(0.75)

About 150 acres of corn crop were damaged in an area near STH 33, about 4 miles west of STH 22.

Columbia County
3 NNE Portage

24	0012CST								
		0	0						Thunderstorm Wind (EG52)

Trees down.

Columbia County
Pardeeville

24	0020CST								
		0	0						Hail(0.75)

Dane County
6 SW Middleton

24	0022CST								
		0	0						Hail(0.75)

Marquette County
3 NE Packwaukee

24	0030CST								
		0	0						Hail(1.00)

Waukesha County
2 N Big Bend

24	0034CST								
		0	0						Hail(1.00)

Dane County
Cottage Grove

24	0035CST 0045CST								
		0	0			2M			Hail(1.75)

Large hail damage many homes and vehicles, resulting in an estimated 200 claims. Some of the homes that sustained hail damage were just recently repaired due to damage inflicted by the April 13, 2006, hailstorm that dumped hail up to 3 to 4 inches in diameter on a path west to east across Dane County.

Dane County
1 W Madison

24	0035CST								
		0	0						Hail(0.75)

Dane County
4 E Madison

24	0036CST								
		0	0						Hail(0.75)

Dane County
Cottage Grove

24	0040CST								
		0	0			10K			Thunderstorm Wind (EG56)

Large trees down. One tree landed on a home.

Columbia County
4 S Cambria

24	0043CST								
		0	0						Hail(1.00)

Jefferson County
3 SW Lake Mills

24	0104CST								
		0	0						Hail(0.75)

Dane County
4 E Fitchburg

24	0105CST 0110CST								
		0	0						Thunderstorm Wind (EG56)

Trees reported down.

Dodge County
2 NW Beaver Dam

24	0105CST								
		0	0						Thunderstorm Wind (EG56)

Trees down.

Dane County
1.6 SE Albion

24	0110CST								
		0	0						Hail(1.00)

Columbia County
4 NNE Rio

24	0120CST								
		0	0						Hail(1.00)

Rock County
7 NW Janesville

24	0130CST								
		0	0						Hail(1.75)



National Weather Service

Storm Data and Unusual Weather Phenomena



August 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>WISCONSIN, Southeast</u>									
Sauk County									
Prairie Du Sac	24	0204CST			0	0			Hail(1.50)
Dane County									
2 NNW Cross Plains	24	0218CST			0	0			Hail(0.75)
Dane County									
5 SW Madison	24	0240CST			0	0			Hail(1.00)
Dane County									
Middleton	24	0240CST			0	0			Thunderstorm Wind (EG56)
			Trees down.						
Rock County									
8 NE Milton	24	0241CST			0	0			Hail(0.75)
Jefferson County									
4 ESE Waterloo	24	0315CST			0	0			Hail(0.75)
Sauk County									
2 NNW La Valle	24	0315CST			0	0			Hail(1.00)
Rock County									
1 W Footville to 4 W Beloit	24	0321CST 0335CST			0	0			Hail(2.50)
			Large hail ranging from 1.00 inch to 2.50 inches fell from 1 mile west of Footville to 4 miles west of Beloit.						
Rock County									
Beloit	24	0330CST 0335CST			0	0	5K		Thunderstorm Wind (EG56)
			Trees down. One fell onto a home, resulting in minor damage.						
Sauk County									
Baraboo	24	0354CST			0	0			Hail(1.00)
Columbia County									
7 SW Okee	24	0410CST			0	0			Hail(1.25)
Dane County									
2 NE Roxbury to 3 SE Waunakee	24	0413CST 0423CST			0	0			Hail(1.75)
Jefferson County									
4 ENE Johnson Creek	24	0438CST			0	0			Thunderstorm Wind (EG52)
			Trees down.						
Dane County									
3 ENE Madison	24	0443CST			0	0			Hail(0.75)
Kenosha County									
Kenosha	24	0847CST			0	0			Hail(0.75)
Kenosha County									
3 SW Pleasant Prairie	24	0850CST			0	0			Hail(0.88)
Kenosha County									
Somers to Pleasant Prairie	24	1100CST			0	0			Heavy Rain
			Minor street flooding resulted after 1 inch of rain fell on top of saturated ground.						
Kenosha County									
Kenosha	24	1115CST			0	0	14M		Lightning
			Several lightning strikes to several buildings caused structural fires and power outages. A large apartment building, known as St. Catherine Commons, was struck by lightning. The resultant fire severely damaged the building, displacing about 125 residents						



National Weather Service

Storm Data and Unusual Weather Phenomena



August 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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WISCONSIN, Southeast

Kenosha County

Pleasant Prairie	24	1120CST			0	0	150K		Lightning
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Several lightning strikes to several buildings caused structural fires and power outages

Dane County

4 WSW Madison to Cottage Grove	24	1200CST 1400CST			0	0			Heavy Rain
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More heavy rain of 1 to 2 inches on already saturated ground caused some minor urban flooding from around the Madison area to Cottage Grove. One car was stalled after trying to drive through flood waters.

Iowa County

Highland	24	1215CST			0	0			Thunderstorm Wind (EG50)
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Garbage cans were reported being airborne with large broken tree limbs.

Iowa County

3 N Rewey	24	1235CST			0	0			Thunderstorm Wind (EG50)
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Tree limbs down.

Dane County

Cottage Grove	24	1300CST			0	0	250K		Lightning
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A home was struck by a lightning bolt, and the resultant fire gutted the home.

Dane County

1 W Marshall	24	1300CST 1400CST			0	0	60K		Lightning
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Twelve cows were killed by a lightning strike.

Lafayette County

4.2 N Argyle	24	1300CST			0	0			Thunderstorm Wind (EG52)
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Trees down.

Waukesha County

Muskego	24	1315CST			0	1			Lightning
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A women was struck by lightning in a parking lot of a business. She was treated at a local hospital and released.

Green County

7 W Monticello	24	1324CST			0	0			Hail(0.75)
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Walworth County

Lake Geneva	24	1330CST			0	0	10K		Lightning
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A home's roof antenna was struck by lightning, resulting in a minor roof fire.

Kenosha County

6 NNE Paddock Lake	24	1500CST 1700CST			0	0	10K		Flash Flood
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Torrential rainfall from thunderstorms caused flooding of roads and basements.

Racine County

2 E Burlington to 2 W Union Grove	24	1500CST 1700CST			0	0	20K		Flash Flood
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Persistent thunderstorms producing torrential rain caused flooding from 2 miles east of Burlington to 2 miles west of Union Grove. The water closed several roads and caused some basement flooding. Radar estimated 4 to 5 inches of rainfall in this area and 3.71 inches of rain was reported in Burlington.

A stagnant weather pattern on August 23rd and 24th resulted in waves of heavy rain and severe thunderstorms. A warm front pushed north during the afternoon of August 23rd. A very unstable airmass with moderate shear caused thunderstorms to break out during the afternoon and continue through most of the overnight as a warm front moved north through the area. Very large hail was the primary hazard with some of the supercell thunderstorms, although there were several reports of wind damage, one tornado 2 miles south-southeast of Leland, and torrential downpours with localized flooding. Incredibly, three separate supercells tracked southeast through Sauk County almost along the same path. Each supercell had a rotating wall cloud at its base, but only one supercell managed to spin up a brief tornado. After a brief respite of only 3 hours during the morning hours of August 24th, more



National Weather Service

Storm Data and Unusual Weather Phenomena



August 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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WISCONSIN, Southeast

storms developed during the late morning and afternoon hours. More heavy rain, large hail, damaging winds, and vivid lightning resulted from these storms. Urban flooding in Dane and Kenosha counties caused a few hundred thousand dollars in structural damage. Some two-day rainfall totals across Dane County include 5.70 inches in Oregon, 5.38 inches in Cottage Grove, 3.26 inches in Middleton, 2.77 inches at Beloit College, and 2.73 inches at Madison Truax Field. Roughly 12,000 customers lost electrical power due to downed power lines and lightning strikes.

Lafayette County									
5 E Shullsburg	25	0435CST			0	0			Thunderstorm Wind (EG52)
									Trees down.

Sauk County									
3 SW Loganville	25	0827CST			0	0			Hail(1.25)

Sauk County									
3 W Prairie Du Sac	25	0900CST			0	0			Hail(1.00)

Dane County									
Roxbury	25	0915CST			0	0	0.50K		Lightning
									Lightning struck a home's chimney. knocking off several bricks.

Dane County									
2 NNE Marxville	25	0920CST			0	0			Hail(1.00)

Dane County									
Middleton	25	0940CST			0	0	50K		Thunderstorm Wind (EG56)
									Trees and power lines were damaged. Stucco at the Wisconsin Trade Center was also damaged

Jefferson County									
2 SSE Ft Atkinson	25	0940CST			0	0			Hail(0.75)

Dane County									
4 SE Stoughton	25	1027CST			0	0			Hail(0.75)

Sauk County									
Sauk City	25	1040CST			0	0	25K		Lightning
									Lightning struck a home, resulting in a minor fire.

Rock County									
Newville	25	1042CST			0	0			Hail(0.75)

Racine County									
4 SSE Burlington	25	1253CST			0	0			Hail(0.75)

Walworth County									
Fontana	25	1335CST			0	0			Hail(1.00)

Walworth County									
2 SE Lyons	25	1345CST			0	0			Hail(0.75)

Rock County									
Beloit	25	1400CST			0	0	5K		Lightning
									Lightning hit a tree which then fell onto a house causing around 5,000 dollars in damage.

A low pressure system tracked across southern Wisconsin and generated more thunderstorms from the morning through most of the afternoon. Moderate instability and shear allowed for storms to organize enough to reach severe criteria and produce large hail and damaging winds.

Rock County									
1.4 S Shopiere	26	1733CST	0.1	20	0	0	2K		Tornado (F0)

A brief tornado spun up 1.4 miles due south of Shopiere, or about 3.8 miles west-southwest of Clinton, very near the intersection of Hart Road and Butterfly Road. It resulted in some minor corn crop damage and tree damage, and was observed by 3 spotters. This very weak tornado spun up on a wind shift boundary that extended from near Racine to near Beloit. Showers and isolated thunderstorms developed along this boundary and produced several funnel clouds, and locally heavy rains. The tornado apparently developed from the ground up since there wasn't any mesocyclone evidence on the WSR-88D Doppler radar. Atmospheric wind shear profiles were not supportive of rotating updrafts in thunderstorms.



National Weather Service

Storm Data and Unusual Weather Phenomena



August 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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WISCONSIN, Southeast

LAKE MICHIGAN

LMZ644		Pt Washington To North Pt Lt Wi							
3 S Port Washington	08	1540CST			0	0			Marine Hail (0.75)
Scattered strong to severe thunderstorms developed over southern Wisconsin and moved over Lake Michigan between Sheboygan and Milwaukee during the late afternoon hours.									

WISCONSIN, Southeast

Washington County									
Jackson	06	1328CST			0	0			Hail(0.75)
Sheboygan County									
2 SSW Beechwood	06	1405CST			0	0			Hail(0.75)
Waukesha County									
Lannon	06	1409CST			0	0			Hail(1.00)
Fond Du Lac County									
New Fane	06	1415CST			0	0			Hail(0.75)
Washington County									
1.5 NE Kewaskum	06	1428CST			0	0			Hail(0.75)
Fond Du Lac County									
1.7 WNW Dundee	06	1435CST			0	0			Hail(1.00)
Scattered thunderstorms, mostly near lake breeze fronts that pushed inland from Lake Michigan and Lake Winnebago, pulsed to severe limits. Large hail was produced, however, no damage was noted. After maximum temperatures were around 80 with dewpoints around 60. Surface winds were generally from the northwest.									

Dodge County									
4 WSW Lomira	08	1510CST			0	0			Hail(1.00)
Washington County									
2 E Hubertus	08	1525CST			0	0			Hail(0.75)
Waukesha County									
1.3 ESE Delafield	08	1537CST			0	0			Hail(0.88)
Ozaukee County									
3 ENE Grafton	08	1540CST			0	0			Hail(0.75)
Washington County									
3 N Germantown	08	1540CST			0	0			Hail(1.00)
Waukesha County									
Duplainville	08	1552CST			0	0			Hail(0.75)
Ozaukee County									
2 SE Cedarburg	08	1553CST			0	0			Hail(1.00)
Scattered thunderstorms, some severe, developed near or along a weak cold front pushing southeast across southern Wisconsin during the afternoon hours. Large hail was produced by those storms that did reach severe limits. However, no damage was noted.									

Dodge County									
Watertown	12	1200CST 1500CST			0	0	100K		Flash Flood
Jefferson County									
Milford to Lake Mills	12	1215CST 1500CST			0	0	100K		Flash Flood



National Weather Service

Storm Data and Unusual Weather Phenomena



September 2006

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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WISCONSIN, Southeast

Racine County

Sturtevant to Racine	12	1515CST 1730CST			0	0	100K		Flash Flood
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Waukesha County

Brookfield to Elm Grove	12	1520CST 1600CST			0	0	100K		Flash Flood
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Racine County

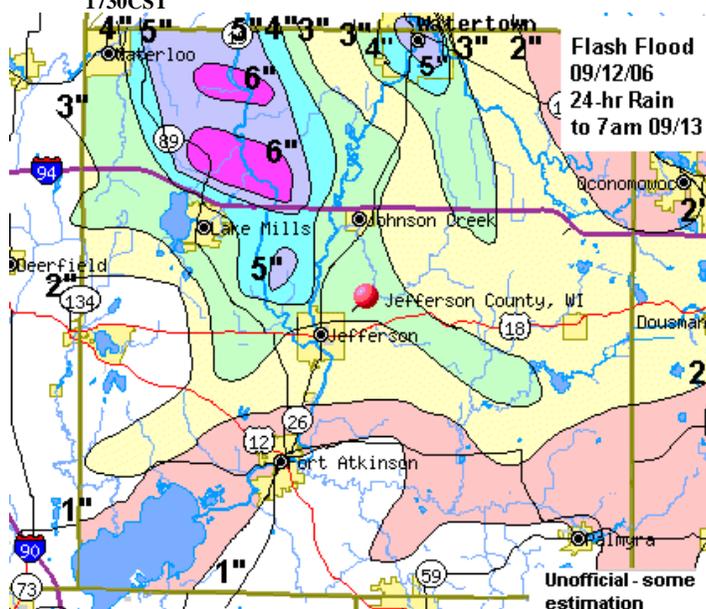
Kansasville to Raymond	12	1525CST 1730CST			0	0	100K		Flash Flood
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Milwaukee County

Wauwatosa	12	1530CST 1730CST			0	0	100K		Flash Flood
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Kenosha County

Kenosha	12	1615CST 1730CST			0	0	100K		Flash Flood
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Unofficial rainfall graphic for Jefferson County, based on official rainfall observations and WSR-88D rainfall estimates. Some estimation and smoothing was incorporated.

Scattered flash flood events occurred over southern Wisconsin thanks to a series of slow-moving clusters or short lines of thunderstorms, each with a round of heavy rain, that moved northeast through southern Wisconsin. It didn't help that the soils were nearly saturated before the rain even started. Flash flooding was reported in the counties of Dodge, Jefferson, Waukesha, Milwaukee, Racine, and Kenosha. Based on spotter reports, rainfall rates reached 3 to 5.5 inches per hour in some of the most intense storms.

The worst flooding problems occurred in and near Watertown (especially the west side in both Jefferson and Dodge Counties), in the Lake Mills-Johnson Creek area north along the Crawfish River in Jefferson County, in the Brookfield-Elm Grove area in Waukesha County, in Wauwatosa (Milwaukee Co.), in the Kansasville-Raymond-Sturtevant-Racine areas in Racine County, and in the city of Kenosha (Kenosha Co.). In all of these areas, the flash flooding consisted of flooded and closed roads with water depths of 1 to 5 feet, flooded basements, and gravel shoulder washouts. Additionally, there was one road washout in Elm Grove where the driver of a vehicle was stranded in the high water levels for about 30 minutes. Nearly every road and backyard in Wauwatosa was flooded.

Jefferson County picked up the greatest amounts of rain. A NWS gage site near Milford on the Crawfish River measured 6.21 inches for the 24-hour period ending about 7 A.M. CDT Thursday, September 13, 2006. Other measured amounts in Jefferson County include - 5.10 at the Watertown WWTP, 4.69 inches at a location 1.2 mile southwest of downtown Watertown (severe weather spotter), 3.59 inches at the Lake Mills WWTP, 2.70 inches at a river gage site on the south-side of the city of Jefferson, 2.42 inches at the Jefferson WWTP, and 2.02 inches at the NWS office about 3.8 miles southeast of Sullivan. Other rainfall totals include - 3.75 inches in Elm Grove (Waukesha Co.), 3.25 inches in Hales Corner (Milwaukee Co.), 2.48 inches in Caledonia



National Weather Service

Storm Data and Unusual Weather Phenomena



September 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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WISCONSIN, Southeast

(Racine Co.), and 2.15 inches at the Kenosha Airport (Kenosha Co.). Unofficially, WSR-88D radar rainfall estimates suggest around 3 inches may have fallen in the Kansasville area just northwest of Union Grove (Racine Co.), and over the southeast corner of Kenosha County. Additionally, radar suggested that 4 to 5 inches fell over extreme southwest and south-central Dodge County, west of Watertown.

The several rounds of thunderstorms were the result of a surface low-pressure moving northeast along a front through the Chicago area, while an upper-level low-pressure moved southeast across northern Illinois. These low-pressures pulled and focused moisture over south-central and southeast Wisconsin. The unofficial rainfall graphic for Jefferson County was attached to the Kenosha County flash flood event in order to have the graphic appear in the StormData publication between the flash flood event header-strips above and this narrative which covers the entire flash flood episode for September 12, 2006.

WIZ046>047-051-056>059-062>065-068>070 Marquette - Green Lake - Fond Du Lac - Sauk - Columbia - Dodge - Washington - Iowa - Dane - Jefferson - Waukesha - Green - Rock - Walworth

14	0000CST 0800CST								Dense Fog
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Dense fog developed overnight across parts of south-central and southeast Wisconsin, thanks to clear skies, light winds, and a very moist ground due to recent rains. Visibilities were reduced to zero to 1/4 mile. One person was killed (indirectly-related death) in a vehicle accident southwest of Whitewater and just inside Walworth County. There was another driver killed (indirectly-related death) in a vehicle accident near Madison (Dane Co.). Several airplane flights were delayed or cancelled at Madison's Traux Field and other local airports.

WIZ052-058>060-064>065-070>072 Sheboygan - Dodge - Washington - Ozaukee - Jefferson - Waukesha - Walworth - Racine - Kenosha

15	0000CST 0700CST								Dense Fog
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Dense fog developed overnight across parts of southeast Wisconsin, thanks to clear skies, light winds, and a very moist ground due to recent rains. Visibilities were reduced to zero to 1/4 mile. Two people were killed (indirectly-related deaths) when their vehicle collided with a train about 2 mile northeast of Sturtevant near STH 20. Several airplane flights were delayed at local airports

WIZ046>047-051>052-057>060-063>064-066-068>069 Marquette - Green Lake - Fond Du Lac - Sheboygan - Columbia - Dodge - Washington - Ozaukee - Dane - Jefferson - Milwaukee - Green - Rock

23	0100CST 0700CST								Dense Fog
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Dense fog developed overnight across parts of south-central and southeast Wisconsin, thanks to clear skies, light winds, and a very moist ground due rain the previous day. Visibilities were reduced to zero to 1/4 mile. Several airplane flights were delayed or cancelled at airports. Important note: although the time listed for Milwaukee County for this dense fog event was 0100-0700CST, in reality the dense fog affected Milwaukee County between 0400 and 0700CST.

Columbia County
.8 NNE Pardeeville **30** **1508CST** **0** **0** **Hail(1.00)**

Jefferson County
1 E Palmyra **30** **1648CST** **0** **0** **Hail(0.75)**

Widely scattered airmass thunderstorms popped up during the afternoon hours across south-central and southeast Wisconsin. One relatively long-lived storm pulsed to severe limits a couple times as it moved from Columbia County to extreme southeastern Jefferson County. Large hail was generated by this severe storm, however, no damage was noted. Synoptically, an upper-level trough moved southeast through Wisconsin during the afternoon, with a pool of colder air aloft. Maximum air temperatures at the surface rose into the upper 60s to upper 70s range across southern Wisconsin.

Storm Data and Unusual Weather Phenomena - October 2006

<u>Location</u>	<u>Date/Time</u>	<u>Deaths & Injuries</u>	<u>Property & Crop Dmg</u>	<u>Event Type and Details</u>
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LAKE MICHIGAN

NORTH PT LT TO WIND PT WI COUNTY

1.1 N MILWAUKEE HARBOR	10/01/06 21:15 CST	0	0	Marine Thunderstorm Wind (MG 35 kt)
	10/01/06 21:15 CST	0	0	43.05N, 87.97W

Scattered severe thunderstorms pushed out over Lake Michigan, and produced powerful wind gusts.

NORTH PT LT TO WIND PT WI COUNTY

1.1 N MILWAUKEE HARBOR	10/02/06 05:20 CST	0	0	Marine Thunderstorm Wind (MG 36 kt)
	10/02/06 05:20 CST	0	0	43.05N, 87.97W

Scattered severe thunderstorms pushed out over Lake Michigan, and produced powerful wind gusts.

Scattered severe thunderstorms developed across south-central and southeast Wisconsin, and pushed out over the Lake Michigan waters, during the late evening hours on October 1st. This activity continued into the pre-dawn morning hours of October 2nd. A surface trough pushing east with increasing moisture and elevated instability ahead of it, resulted in storms that produced marginally severe hail and/or powerful downburst winds.

WIND PT LT WI TO WINTHROP HBR IL COUNTY

2.2 ESE KENOSHA	10/02/06 17:40 CST	0	0	Marine Thunderstorm Wind (MG 35 kt)
	10/02/06 17:40 CST	0	0	42.57N, 87.87W

Scattered severe thunderstorms generated powerful downburst winds.

NORTH PT LT TO WIND PT WI COUNTY

1.1 N MILWAUKEE HARBOR	10/02/06 17:55 CST	0	0	Marine Thunderstorm Wind (MG 41 kt)
	10/02/06 17:55 CST	0	0	43.05N, 87.97W

Scattered severe thunderstorms generated powerful downburst winds.

WIND PT LT WI TO WINTHROP HBR IL COUNTY

2.2 ESE KENOSHA	10/02/06 19:00 CST	0	0	Marine Thunderstorm Wind (MG 40 kt)
	10/02/06 19:00 CST	0	0	42.57N, 87.87W

Scattered severe thunderstorms generated powerful downburst winds.

WIND PT LT WI TO WINTHROP HBR IL COUNTY

2.2 ESE KENOSHA	10/02/06 19:20 CST	0	0	Marine Thunderstorm Wind (MG 98 kt)
	10/02/06 19:20 CST	0	0	42.57N, 87.87W

Scattered severe thunderstorms generated powerful downburst winds.

Scattered severe thunderstorms redeveloped across south-central and southeast Wisconsin, and pushed out over the Lake Michigan waters during the late afternoon and evening hours. Powerful downburst winds were produced.

PT WASHINGTON TO NORTH PT LT WI COUNTY

1 N NORTH POINT LTHOUSE	10/04/06 04:05 CST	0	0	Marine Hail (0.88 in)
	10/04/06 04:05 CST	0	0	43.09N, 87.93W

NORTH PT LT TO WIND PT WI COUNTY

1.1 N MILWAUKEE HARBOR	10/04/06 04:10 CST	0	0	Marine Thunderstorm Wind (MG 41 kt)
	10/04/06 04:10 CST	0	0	43.05N, 87.97W

Scattered severe thunderstorms generated powerful downburst winds.

Scattered severe thunderstorms generated severe hail and powerful downburst winds. The storms were related to warm front over northern Illinois, a short-wave trough aloft, and a low-level jet pumping moisture northward.

WISCONSIN, Southeast

DODGE COUNTY

Storm Data and Unusual Weather Phenomena - October 2006

<u>Location</u>	<u>Date/Time</u>	<u>Deaths & Injuries</u>	<u>Property & Crop Dmg</u>	<u>Event Type and Details</u>
BEAVER DAM	10/01/06 19:30 CST	0	0	Hail (0.75 in)
	10/01/06 19:30 CST	0	0	43.47N, 88.83W
DODGE COUNTY				
2 N MINNESOTA JCT	10/01/06 20:10 CST	0	0	Hail (0.75 in)
	10/01/06 20:10 CST	0	0	43.48N, 88.67W
DODGE (WI-Z058)				
	10/01/06 20:35 CST	0	0	Wildfire
	10/01/06 21:00 CST	0	0	
DODGE COUNTY				
2 N MINNESOTA JCT	10/01/06 20:40 CST	0	0	Hail (0.75 in)
	10/01/06 20:40 CST	0	0	43.48N, 88.67W
WASHINGTON COUNTY				
KOHLSVILLE	10/01/06 20:55 CST	0	0	Hail (0.75 in)
	10/01/06 20:55 CST	0	0	43.47N, 88.32W
FOND DU LAC COUNTY				
3 SW FOND DU LAC	10/01/06 22:45 CST	0	0	Hail (0.75 in)
	10/01/06 22:45 CST	0	0	43.75N, 88.41W
FOND DU LAC COUNTY				
4 S LADOGA	10/02/06 00:30 CST	0	200K	Lightning
	10/02/06 00:30 CST	0	0	43.66N, 88.68W
Lightning struck a shed. The resultant fire buring the shed to the ground, and the contents were a total loss.				
MILWAUKEE COUNTY				
0.69 N WEST ALLIS	10/02/06 05:28 CST	0	0	Hail (1.00 in)
	10/02/06 05:28 CST	0	0	43.01N, 87.97W
Scattered severe thunderstorms developed across south-central and southeast Wisconsin during the late evening hours on October 1st and continued into the pre-dawn, early morning hours of October 2nd. A surface trough pushing east across the western Great Lakes region. Increasing moisture and elevated instability ahead of it helped produce marginally severe hail with some of the storms.				
MARQUETTE COUNTY				
1 NW WESTFIELD	10/02/06 15:13 CST	0	0	Hail (1.00 in)
	10/02/06 15:13 CST	0	0	43.89N, 89.47W
MARQUETTE COUNTY				
2 E WESTFIELD	10/02/06 15:39 CST	0	0	Hail (0.75 in)
	10/02/06 15:39 CST	0	0	43.88N, 89.52W
MARQUETTE COUNTY				
5 SW WESTFIELD	10/02/06 15:42 CST	0	0	Hail (0.88 in)
	10/02/06 15:42 CST	0	0	43.83N, 89.41W
MARQUETTE COUNTY				
WESTFIELD	10/02/06 15:45 CST	0	0	Hail (0.88 in)
	10/02/06 15:45 CST	0	0	43.88N, 89.48W
GREEN LAKE COUNTY				
2 W KINGSTON	10/02/06 15:52 CST	0	0	Hail (0.75 in)
	10/02/06 15:52 CST	0	0	43.7N, 89.08W
GREEN LAKE COUNTY				
DALTON	10/02/06 15:54 CST	0	0	Hail (1.50 in)
	10/02/06 15:54 CST	0	0	43.65N, 89.2W

Storm Data and Unusual Weather Phenomena - October 2006

<u>Location</u>	<u>Date/Time</u>	<u>Deaths & Injuries</u>	<u>Property & Crop Dmg</u>	<u>Event Type and Details</u>
COLUMBIA COUNTY				
4 NW FRIESLAND	10/02/06 16:06 CST	0	3K	Thunderstorm Wind (EG 61 kt)
	10/02/06 16:06 CST	0	0	43.62N, 89.01W
Powerful thunderstorm winds toppled trees and power-lines, and ripped off the roof of a tin shed.				
COLUMBIA COUNTY				
4 N CAMBRIA	10/02/06 16:09 CST	0	0	Hail (0.88 in)
	10/02/06 16:09 CST	0	0	43.61N, 89.1W
FOND DU LAC COUNTY				
2 E ALTO	10/02/06 16:10 CST	0	0	Thunderstorm Wind (EG 52 kt)
	10/02/06 16:10 CST	0	0	43.68N, 88.82W
Powerful thunderstorm winds knocked down large trees.				
GREEN LAKE COUNTY				
KINGSTON	10/02/06 16:17 CST	0	0	Hail (0.75 in)
	10/02/06 16:17 CST	0	0	43.7N, 89.12W
DODGE COUNTY				
RANDOLPH	10/02/06 16:20 CST	0	0	Hail (0.88 in)
	10/02/06 16:20 CST	0	0	43.53N, 89W
DODGE COUNTY				
FOX LAKE	10/02/06 16:21 CST	0	0	Hail (0.88 in)
	10/02/06 16:30 CST	0	0	43.57N, 88.9W
Hail accumulations eventually covered the ground white.				
FOND DU LAC COUNTY				
OAKFIELD	10/02/06 16:30 CST	0	0	Hail (0.75 in)
	10/02/06 16:30 CST	0	0	43.68N, 88.55W
MARQUETTE COUNTY				
5 W MONTELLO	10/02/06 16:35 CST	0	0	Hail (0.75 in)
	10/02/06 16:35 CST	0	0	43.8N, 89.22W
JEFFERSON COUNTY				
FT ATKINSON	10/02/06 16:40 CST	0	0	Hail (0.75 in)
	10/02/06 16:40 CST	0	0	42.93N, 88.85W
DODGE COUNTY				
2 SW CLYMAN	10/02/06 16:42 CST	0	0	Hail (1.25 in)
	10/02/06 16:42 CST	0	0	43.3N, 88.69W
FOND DU LAC COUNTY				
1 W FOND DU LAC	10/02/06 16:45 CST	0	0	Thunderstorm Wind (EG 52 kt)
	10/02/06 16:45 CST	0	0	43.78N, 88.43W
Powerful thunderstorm winds knocked down large trees.				
FOND DU LAC COUNTY				
ASHFORD	10/02/06 16:55 CST	0	0	Thunderstorm Wind (EG 52 kt)
	10/02/06 16:55 CST	0	0	43.58N, 88.37W
Powerful thunderstorm winds knocked down large trees.				
ROCK COUNTY				
2 S MILTON	10/02/06 16:58 CST	0	0	Hail (0.75 in)
	10/02/06 16:58 CST	0	0	42.74N, 88.95W

Storm Data and Unusual Weather Phenomena - October 2006

<u>Location</u>	<u>Date/Time</u>	<u>Deaths & Injuries</u>	<u>Property & Crop Dmg</u>	<u>Event Type and Details</u>
COLUMBIA COUNTY				
15 NE PARDEEVILLE	10/02/06 17:02 CST	0	0	Thunderstorm Wind (EG 52 kt)
	10/02/06 17:02 CST	0	0	43.68N, 89.49W
Powerful thunderstorm winds knocked down large trees.				
COLUMBIA COUNTY				
7 N PARDEEVILLE	10/02/06 17:02 CST	0	0	Thunderstorm Wind (EG 52 kt)
	10/02/06 17:02 CST	0	0	43.63N, 89.28W
Powerful thunderstorm winds knocked down large trees.				
COLUMBIA COUNTY				
8 E PARDEEVILLE	10/02/06 17:02 CST	0	0	Thunderstorm Wind (EG 52 kt)
	10/02/06 17:02 CST	0	0	43.53N, 89.44W
Powerful thunderstorm winds knocked down large trees.				
DODGE COUNTY				
2 S CLYMAN	10/02/06 17:02 CST	0	0	Hail (0.75 in)
	10/02/06 17:02 CST	0	0	43.29N, 88.72W
SHEBOYGAN COUNTY				
BEECHWOOD	10/02/06 17:10 CST	0	0	Hail (1.00 in)
	10/02/06 17:10 CST	0	0	43.6N, 88.12W
WASHINGTON COUNTY				
4 WNW WAYNE	10/02/06 17:10 CST	0	25K	Thunderstorm Wind (EG 52 kt)
	10/02/06 17:10 CST	0	0	43.54N, 88.25W
Powerful thunderstorm winds knocked down large trees and power-lines.				
DODGE COUNTY				
THERESA	10/02/06 17:15 CST	0	0	Thunderstorm Wind (EG 56 kt)
	10/02/06 17:15 CST	0	0	43.52N, 88.45W
Powerful thunderstorm winds knocked down large trees.				
JEFFERSON COUNTY				
3 E LAKE MILLS	10/02/06 17:15 CST	0	0	Funnel Cloud
	10/02/06 17:15 CST	0	0	43.08N, 88.96W
JEFFERSON COUNTY				
1 W WATERTOWN	10/02/06 17:19 CST	0	0	Hail (0.75 in)
	10/02/06 17:19 CST	0	0	43.2N, 88.7W
JEFFERSON COUNTY				
1 W WATERTOWN	10/02/06 17:19 CST	0	0	Thunderstorm Wind (EG 52 kt)
	10/02/06 17:19 CST	0	0	43.2N, 88.7W
Powerful thunderstorm winds knocked down large trees.				
WASHINGTON COUNTY				
HARTFORD	10/02/06 17:30 CST	0	0	Thunderstorm Wind (EG 56 kt)
	10/02/06 17:30 CST	0	0	43.32N, 88.38W
Powerful thunderstorm winds knocked down large trees.				
WASHINGTON COUNTY				
WEST BEND	10/02/06 17:30 CST	0	0	Thunderstorm Wind (EG 56 kt)
	10/02/06 17:30 CST	0	0	43.42N, 88.18W

Storm Data and Unusual Weather Phenomena - October 2006

<u>Location</u>	<u>Date/Time</u>	<u>Deaths & Injuries</u>	<u>Property & Crop Dmg</u>	<u>Event Type and Details</u>
Powerful thunderstorm winds knocked down large trees.				
JEFFERSON COUNTY				
1 SW PALMYRA	10/02/06 17:31 CST	0	0	Hail (0.75 in)
	10/02/06 17:31 CST	0	0	42.87N, 88.59W
DANE COUNTY				
4 E EAST BRISTOL	10/02/06 17:33 CST	0	0	Hail (0.75 in)
	10/02/06 17:33 CST	0	0	43.27N, 89.23W
JEFFERSON COUNTY				
3 SE PALMYRA	10/02/06 17:33 CST	0	0	Thunderstorm Wind (EG 56 kt)
	10/02/06 17:33 CST	0	0	42.85N, 88.64W
Powerful thunderstorm winds knocked down large trees.				
WALWORTH COUNTY				
0.2 NW LITTLE PRAIRIE	10/02/06 17:33 CST	0	0	Thunderstorm Wind (EG 56 kt)
	10/02/06 17:33 CST	0	0	42.83N, 88.53W
Powerful thunderstorm winds knocked down large trees.				
OZAUKEE COUNTY				
BELGIUM	10/02/06 17:40 CST	0	0	Hail (0.75 in)
	10/02/06 17:40 CST	0	0	43.5N, 87.85W
WAUKESHA COUNTY				
2.1 SW WAUKESHA	10/02/06 17:40 CST	0	0	Thunderstorm Wind (EG 56 kt)
	10/02/06 17:40 CST	0	0	43N, 88.19W
Powerful thunderstorm winds knocked down large trees.				
DANE COUNTY				
MARSHALL	10/02/06 17:41 CST	0	0	Hail (0.75 in)
	10/02/06 17:41 CST	0	0	43.17N, 89.05W
WAUKESHA COUNTY				
3.5 NW NEW BERLIN	10/02/06 17:41 CST	0	0	Thunderstorm Wind (MG 51 kt)
	10/02/06 17:41 CST	0	0	43.02N, 88.07W
Powerful thunderstorm winds knocked down large trees.				
JEFFERSON COUNTY				
3.8 SE SULLIVAN	10/02/06 17:45 CST	0	0	Hail (0.75 in)
	10/02/06 17:45 CST	0	0	42.98N, 88.63W
WALWORTH COUNTY				
0.2 NW LITTLE PRAIRIE	10/02/06 17:45 CST	0	0	Hail (0.75 in)
	10/02/06 17:45 CST	0	0	42.83N, 88.53W
DANE COUNTY				
1 NNW SUN PRAIRIE	10/02/06 17:49 CST	0	0	Hail (0.75 in)
	10/02/06 17:55 CST	0	0	43.19N, 89.19W
MILWAUKEE COUNTY				
0.5 SE WAUWATOSA	10/02/06 17:50 CST	0	0	Thunderstorm Wind (EG 52 kt)
	10/02/06 17:50 CST	0	0	43.04N, 87.96W
Powerful thunderstorm winds knocked down large trees.				
COLUMBIA COUNTY				

Storm Data and Unusual Weather Phenomena - October 2006

<u>Location</u>	<u>Date/Time</u>	<u>Deaths & Injuries</u>	<u>Property & Crop Dmg</u>	<u>Event Type and Details</u>
PARDEEVILLE	10/02/06 17:52 CST	0	0	Hail (1.00 in)
	10/02/06 17:52 CST	0	0	43.53N, 89.28W
MILWAUKEE COUNTY				
BROWN DEER	10/02/06 17:52 CST	0	0	Hail (0.75 in)
	10/02/06 17:52 CST	0	0	43.17N, 87.97W
DANE COUNTY				
6 E MC FARLAND	10/02/06 17:59 CST	0	0	Thunderstorm Wind (EG 52 kt)
	10/02/06 17:59 CST	0	0	43.02N, 89.4W
Powerful thunderstorm winds knocked down large trees.				
COLUMBIA COUNTY				
3 W CAMBRIA	10/02/06 18:10 CST	0	0	Hail (1.25 in)
	10/02/06 18:30 CST	0	0	43.55N, 89.04W
Hail fell for about 20 minutes and almost covered the ground white. Hail size ranged from 0.75 to 1.25 inches.				
JEFFERSON COUNTY				
3 SE PALMYRA	10/02/06 18:12 CST	0	0	Hail (0.75 in)
	10/02/06 18:12 CST	0	0	42.85N, 88.64W
WALWORTH COUNTY				
3.5 NE LA GRANGE	10/02/06 18:14 CST	0	0	Hail (0.75 in)
	10/02/06 18:14 CST	0	0	42.84N, 88.65W
WAUKESHA COUNTY				
3.5 SW EAGLE	10/02/06 18:16 CST	0	0	Hail (0.75 in)
	10/02/06 18:16 CST	0	0	42.84N, 88.42W
KENOSHA COUNTY				
BRISTOL	10/02/06 18:25 CST	0	0	Hail (0.75 in)
	10/02/06 18:25 CST	0	0	42.55N, 88.05W
DANE COUNTY				
MT HOREB	10/02/06 18:30 CST	0	0	Hail (0.75 in)
	10/02/06 18:30 CST	0	0	43N, 89.73W
RACINE COUNTY				
UNION GROVE	10/02/06 18:37 CST	0	0	Hail (0.88 in)
	10/02/06 18:37 CST	0	0	42.68N, 88.05W
ROCK COUNTY				
3.5 SE (JVL)ROCK CO ARPT JA	10/02/06 19:00 CST	0	20K	Thunderstorm Wind (EG 61 kt)
	10/02/06 19:00 CST	0	0	42.58N, 89.08W
Powerful thunderstorm winds knocked down large trees, and destroyed an aluminum shed.				
GREEN COUNTY				
4 N ALBANY	10/02/06 19:05 CST	0	0	Thunderstorm Wind (EG 52 kt)
	10/02/06 19:05 CST	0	0	42.76N, 89.43W
Powerful thunderstorm winds knocked down large trees.				
ROCK COUNTY				
2 NE JANESVILLE	10/02/06 19:05 CST	0	0	Hail (0.88 in)
	10/02/06 19:05 CST	0	0	42.7N, 89.05W
KENOSHA COUNTY				

Storm Data and Unusual Weather Phenomena - October 2006

<u>Location</u>	<u>Date/Time</u>	<u>Deaths & Injuries</u>	<u>Property & Crop Dmg</u>	<u>Event Type and Details</u>
3 SE KENOSHA MUNI ARPT	10/02/06 19:25 CST	0	0	Thunderstorm Wind (EG 52 kt)
	10/02/06 19:25 CST	0	0	42.57N, 87.96W
Powerful thunderstorm winds knocked down large trees.				
ROCK COUNTY				
2 E FOOTVILLE	10/02/06 19:30 CST	0	0	Thunderstorm Wind (EG 52 kt)
	10/02/06 19:30 CST	0	0	42.67N, 89.24W
Powerful thunderstorm winds knocked down large trees.				
A cold front accompanying a strong shortwave aloft combined with moderate instability and vertical wind shear by late afternoon led to the development of numerous thunderstorms. Many of these storms pulsed to produce large hail and damaging thunderstorm wind gusts.				
SAUK COUNTY				
REEDSBURG	10/04/06 03:25 CST	0	900K	Hail (1.75 in)
BARABOO	10/04/06 03:30 CST	0	0	43.53N, 90W ~ 43.47N, 89.73W
A hailstorm dumped hail stones with diameters from 1.00 to 1.75 inch from Reedsburg to Baraboo, with most of the activity in the Reedsburg area. Hundreds of vehicles were damaged by the hail stones. Three insurance companies reported 375 claims totaling about \$900,000.				
GREEN COUNTY				
7 NW MONROE	10/04/06 03:30 CST	0	0	Thunderstorm Wind (EG 56 kt)
	10/04/06 03:30 CST	0	0	42.67N, 89.53W
Large trees were toppled by powerful thunderstorm winds.				
FOND DU LAC COUNTY				
FOND DU LAC	10/04/06 03:33 CST	0	5K	Hail (1.75 in)
	10/04/06 03:33 CST	0	0	43.78N, 88.45W
Several vehicles were dented by the large hail.				
COLUMBIA COUNTY				
4 S PORTAGE	10/04/06 03:55 CST	0	0	Hail (1.00 in)
	10/04/06 03:59 CST	0	0	43.49N, 89.45W
MILWAUKEE COUNTY				
2.2 NW WEST ALLIS	10/04/06 03:55 CST	0	0	Hail (0.75 in)
	10/04/06 03:55 CST	0	0	43.02N, 87.94W
COLUMBIA COUNTY				
POYNETTE	10/04/06 03:59 CST	0	0	Hail (0.75 in)
	10/04/06 03:59 CST	0	0	43.4N, 89.4W
COLUMBIA COUNTY				
3 E POYNETTE	10/04/06 04:03 CST	0	0	Hail (0.88 in)
	10/04/06 04:03 CST	0	0	43.4N, 89.46W
DANE COUNTY				
MARSHALL	10/04/06 04:05 CST	0	0	Hail (0.75 in)
	10/04/06 04:20 CST	0	0	43.17N, 89.05W
MILWAUKEE COUNTY				
4.5 NE MILWAUKEE	10/04/06 04:05 CST	0	0	Hail (0.88 in)
	10/04/06 04:05 CST	0	0	43.08N, 88.03W
COLUMBIA COUNTY				
WYOCENA	10/04/06 04:07 CST	0	0	Hail (0.88 in)
	10/04/06 04:07 CST	0	0	43.5N, 89.3W

Storm Data and Unusual Weather Phenomena - October 2006

<u>Location</u>	<u>Date/Time</u>	<u>Deaths & Injuries</u>	<u>Property & Crop Dmg</u>	<u>Event Type and Details</u>
DODGE COUNTY				
REESEVILLE	10/04/06 04:25 CST	0	0	Hail (0.75 in)
	10/04/06 04:25 CST	0	0	43.3N, 88.83W
WAUKESHA COUNTY				
5 NW HARTLAND	10/04/06 04:25 CST	0	0	Thunderstorm Wind (EG 50 kt)
	10/04/06 04:25 CST	0	0	43.15N, 88.28W
Large trees were toppled by powerful thunderstorm winds.				
DANE COUNTY				
1 NE EAST BRISTOL	10/04/06 04:30 CST	0	0	Hail (0.88 in)
	10/04/06 04:30 CST	0	0	43.28N, 89.16W
WASHINGTON COUNTY				
WEST BEND	10/04/06 05:15 CST	0	50K	Lightning
	10/04/06 05:15 CST	0	0	43.42N, 88.18W

Lightning struck a home's roof, resulting in an attic fire.

Scattered clusters of severe storms developed across south-central and southeast Wisconsin during the pre-dawn hours. Synoptically, a warm front moved slowly north through Iowa and northern Illinois, while an upper-level short-wave moved east. A low-level jet pumped moisture into southern Wisconsin, while surface dewpoints peaked in the mid-60s along the warm front.

Storm Data and Unusual Weather Phenomena - November 2006

<u>Location</u>	<u>Date/Time</u>	<u>Deaths & Injuries</u>	<u>Property & Crop Dmg</u>	<u>Event Type and Details</u>
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WISCONSIN, Southeast

FOND DU LAC (WI-Z051), SHEBOYGAN (WI-Z052), DODGE (WI-Z058), WASHINGTON (WI-Z059), OZAUKEE (WI-Z060)

11/06/06 21:00 CST	0	0	Dense Fog
11/07/06 01:00 CST	0	0	

Dense fog developed overnight thanks to clearing skies, light winds, and very moist low-level air than moved in from Lake Michigan. Visibilities were reduced to less than 1/4 mile resulting in a few vehicle accidents.

SHEBOYGAN (WI-Z052), WASHINGTON (WI-Z059), OZAUKEE (WI-Z060)

11/07/06 18:00 CST	0	0	Dense Fog
11/07/06 23:59 CST	0	0	

Light southeast winds off of Lake Michigan pushed moist air inland, resulting in the development of dense fog during the evening hours due to clear skies. Visibilities were reduced to below 1/4 mile, resulting in a few vehicle accidents.

MARQUETTE (WI-Z046), GREEN LAKE (WI-Z047), FOND DU LAC (WI-Z051), SHEBOYGAN (WI-Z052), SAUK (WI-Z056), COLUMBIA (WI-Z057), DODGE (WI-Z058), WASHINGTON (WI-Z059), OZAUKEE (WI-Z060), IOWA (WI-Z062), DANE (WI-Z063), JEFFERSON (WI-Z064), WAUKESHA (WI-Z065), MILWAUKEE (WI-Z066), LAFAYETTE (WI-Z067), GREEN (WI-Z068), ROCK (WI-Z069), WALWORTH (WI-Z070)

11/10/06 15:00 CST	0	0	Winter Weather
11/10/06 21:00 CST	0	0	

The first widespread, winter-weather episode to affect all of south-central and southeast Wisconsin in the 2006-07 season was the result of a low pressure moving through central Illinois into northern Indiana. A mixture of rain, sleet, and snow changed over to all snow, resulting in snow accumulations of generally 1 to 3 inches. However, 4 to 4.5 inches fell over the eastern third of Fond du Lac County and the northeast quarter of Sheboygan County. Taycheedah, in Fond du Lac County, has the greatest total of 4.5 inches. Many vehicle accidents were reported due to icy roads. Newspaper reports estimated that up to 150 vehicle accidents occurred in Dane County alone. Therefore, perhaps a total of 300-400 vehicle accidents may have occurred in the 18 counties logged in this winter weather event.

SHEBOYGAN (WI-Z052), WASHINGTON (WI-Z059), OZAUKEE (WI-Z060), MILWAUKEE (WI-Z066)

11/24/06 20:00 CST	0	0	Dense Fog
11/25/06 08:00 CST	0	0	

Very dense fog developed over a 4-county area near Lake Michigan thanks to a localized southeast wind which pushed moist air inland during the late afternoon. Radiational cooling after sunset resulted in quick saturation after sunset when air temperatures dropped to the mid to upper 30s. The very dense fog reduced visibilities to zero to 1/4 mile, resulting in a few vehicle accidents. Motorists mentioned that driving through the very dense fog was like driving through a cotton ball. As for Milwaukee County, only the far northern part of the county within a couple miles of the county-line experienced the very dense fog.

Storm Data and Unusual Weather Phenomena - December 2006

<u>Location</u>	<u>Date/Time</u>	<u>Deaths & Injuries</u>	<u>Property & Crop Dmg</u>	<u>Event Type and Details</u>
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WISCONSIN, Southeast

MILWAUKEE (WI-Z066), RACINE (WI-Z071), KENOSHA (WI-Z072)

12/01/06 02:00 CST	0	0	Blizzard
12/01/06 14:00 CST	0	0	

The first blizzard since 1999 affected locations within about 5 miles of the Lake Michigan shoreline in the counties of Milwaukee, Racine, and Kenosha. The blizzard was generated by a strong low pressure moving northeast along a frontal boundary that stretched across northern Illinois to northern Indiana. Northeast to east winds gusting to 35 to 40 mph helped to reduce visibilities to less than 1/4 mile, and created snow drifts of 2 to 5 feet in height. Many vehicle accidents were reported, and many vehicles were reported to be stuck in snow drifts. Dozens of airplane flights were delayed or cancelled at Milwaukee's Mitchell Field (Milwaukee Co.) where 10.1 inches of snow were measured. Maximum snow accumulations include 13.5 inches in Hales Corner (Milwaukee Co.), 15 inches in Union Grove (Racine Co.), and 17 inches at the Kenosha U.S. Coast Guard Station (Kenosha Co.). An elderly man in the city of Racine died from a heart attack while shoveling snow (indirect-related death).

SHEBOYGAN (WI-Z052), WASHINGTON (WI-Z059), OZAUKEE (WI-Z060), JEFFERSON (WI-Z064), WAUKESHA (WI-Z065), ROCK (WI-Z069), WALWORTH (WI-Z070)

12/01/06 03:00 CST	0	0	Winter Storm
12/01/06 14:00 CST	0	0	

The first, widespread, winter storm, to affect south-central and southeast Wisconsin in the 2006-07 season, dumped 6 to 13.5 inches of snow, and generated blowing and drifting of snow due to northeast-east winds gusting to 25-30 mph. Visibilities were reduced to 1/2 to 1 mile in open areas. Numerous vehicles were stuck in snow drifts, and there were many vehicle accidents. Maximum snow accumulations include: an estimated 9 inches in southeast Sheboygan County, 10.8 inches in Germantown (Washington Co.), 10 inches across most of Ozaukee County, 10.5 inches near Palmyra (Jefferson Co.), 13.5 inches in Genesee (Waukesha Co.), an estimated 12 inches in southeast Rock County, and 14.7 inches in Genoa City (Walworth Co.). The responsible low pressure moved northeast along a frontal boundary across northern Illinois and northern Indiana.

MILWAUKEE (WI-Z066)

12/07/06 00:00 CST	1	0	Cold/Wind Chill
12/07/06 23:59 CST	0	0	

In the wake of a major winter storm on December 1st, cold weather settled in over southern Wisconsin, with daily temperature averages well below normal. December 7th was an unseasonably cold day in Milwaukee with a maximum temperature of 17 and a low temperature of 8 above zero (-16 degree departure for daily average temperature). As a result, a 41 year old male was found dead, frozen to a sidewalk (directly-related death).

MARQUETTE (WI-Z046), GREEN LAKE (WI-Z047), FOND DU LAC (WI-Z051), SHEBOYGAN (WI-Z052), SAUK (WI-Z056), COLUMBIA (WI-Z057), DODGE (WI-Z058), WASHINGTON (WI-Z059), OZAUKEE (WI-Z060), IOWA (WI-Z062), DANE (WI-Z063), JEFFERSON (WI-Z064), WAUKESHA (WI-Z065), MILWAUKEE (WI-Z066), LAFAYETTE (WI-Z067), GREEN (WI-Z068), ROCK (WI-Z069), WALWORTH (WI-Z070), RACINE (WI-Z071), KENOSHA (WI-Z072)

12/11/06 18:00 CST	0	0	Dense Fog
12/12/06 21:00 CST	0	0	

Dense fog developed over south-central and southeast Wisconsin thanks to warm air moving over a remaining snow cover. Visibilities were reduced to less than 1/4 mile, resulting in several vehicle accidents.

MARQUETTE (WI-Z046), GREEN LAKE (WI-Z047), SAUK (WI-Z056), COLUMBIA (WI-Z057), DODGE (WI-Z058), WASHINGTON (WI-Z059), OZAUKEE (WI-Z060), IOWA (WI-Z062), DANE (WI-Z063), JEFFERSON (WI-Z064), WAUKESHA (WI-Z065), MILWAUKEE (WI-Z066), LAFAYETTE (WI-Z067), GREEN (WI-Z068), ROCK (WI-Z069), WALWORTH (WI-Z070), RACINE (WI-Z071), KENOSHA (WI-Z072)

12/21/06 23:00 CST	0	0	Dense Fog
12/22/06 06:00 CST	0	0	

Dense fog developed over parts of south-central and southeast Wisconsin thanks to south winds feeding a warm, moist airmass into the area. Several vehicle accidents were reported. This was the 2nd dense fog episode for December, 2006.