

Storm Data and Unusual Weather Phenomena - May 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
LAKE MICHIGAN				
PT WASHINGTON TO NORTH PT LT WI COUNTY --- 0.6 N PORT WASHINGTON [43.39, -87.87]				
	05/22/11 17:17 CST		0	Marine Thunderstorm Wind (MG 36 kt)
	05/22/11 17:17 CST		0	Source: C-MAN Station
SHEBOYGAN TO PT WASHINGTON WI COUNTY --- 1.4 E SHEBOYGAN [43.75, -87.69]				
	05/22/11 18:00 CST		0	Marine Thunderstorm Wind (MG 39 kt)
	05/22/11 18:00 CST		0	Source: C-MAN Station
WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 1.2 ENE KENOSHA [42.59, -87.81]				
	05/22/11 19:00 CST		0	Marine Thunderstorm Wind (MG 37 kt)
	05/22/11 19:00 CST		0	Source: C-MAN Station
NORTH PT LT TO WIND PT WI COUNTY --- 3.5 SE NORTH POINT LTHOUSE [43.05, -87.88]				
	05/22/11 19:15 CST		0	Marine Thunderstorm Wind (MG 35 kt)
	05/22/11 19:15 CST		0	Source: C-MAN Station
Several rounds of strong thunderstorms affected the near-shore waters of Lake Michigan during the early evening.				
NORTH PT LT TO WIND PT WI COUNTY --- 3.5 SE NORTH POINT LTHOUSE [43.05, -87.88]				
	05/31/11 13:45 CST	1	0	Marine Strong Wind (MG 38 kt)
	05/31/11 13:45 CST		0	Source: C-MAN Station
Direct Fatalities: 0				
A strong cold front moved through the near shore areas during the afternoon of May 31st and generated severe storms with gusty winds over portions of the near-shore waters of Lake Michigan.				
WISCONSIN, Southeast				
FOND DU LAC COUNTY --- 5.8 S WAUPUN [43.55, -88.72]				
	05/09/11 13:47 CST		15K	Lightning
	05/09/11 13:47 CST		0	Source: Newspaper
Lightning struck a building in the township of Chester, setting the 100-foot by 60-foot structure on fire. Damage was moderate, totaling \$15,000, and contained to one bay in the shop area at the rear of the building.				
DODGE COUNTY --- 0.5 WSW BEAVER DAM [43.47, -88.84]				
	05/09/11 19:15 CST		50K	Lightning
	05/09/11 19:15 CST		0	Source: Newspaper
A house was damaged in the 500 block of west Burnett Street in Beaver Dam by lightning that struck a nearby tree and traveled through the ground into the house. The resulting fire caused \$50,000 in damage to the structure. Two firefighters were injured (indirectly-related) when a portion of the ceiling collapsed in the home.				
Elevated convection developed over southern Wisconsin as a strengthening low-level jet pushed warm and unstable air into the region over a warm front that had reached northern Illinois. The thunderstorms produced numerous lightning strikes that struck and damaged a home in Beaver Dam in Dodge County, and a shed in Waupun in Fond Du Lac County.				
DANE COUNTY --- 1.0 E DOWNTOWN MADISON [43.07, -89.40]				
	05/11/11 12:36 CST		0	Hail (1.00 in)
	05/11/11 12:36 CST		0	Source: Trained Spotter
DANE COUNTY --- (MSN)TRUAX FLD MADIS [43.13, -89.33]				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/11/11 12:41 CST		0	Hail (1.00 in)
	05/11/11 12:41 CST		0	Source: Trained Spotter
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DANE COUNTY --- 2.0 E (MSN)TRUAX FLD MADIS [43.13, -89.29]				
	05/11/11 12:43 CST		0	Hail (1.00 in)
	05/11/11 12:43 CST		0	Source: Trained Spotter
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DANE COUNTY --- MC FARLAND [43.02, -89.28]				
	05/11/11 12:43 CST		0	Hail (1.00 in)
	05/11/11 12:43 CST		0	Source: Trained Spotter
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DANE COUNTY --- 3.0 E DOWNTOWN MADISON [43.07, -89.36]				
	05/11/11 12:45 CST		0	Hail (1.25 in)
	05/11/11 12:45 CST		0	Source: Trained Spotter
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DANE COUNTY --- 1.0 E (MSN)TRUAX FLD MADIS [43.13, -89.31], 2.0 E (MSN)TRUAX FLD MADIS [43.13, -89.29]				
	05/11/11 12:47 CST		0	Hail (1.50 in)
	05/11/11 12:47 CST		0	Source: Trained Spotter
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DANE COUNTY --- 4.0 E MC FARLAND [43.02, -89.20]				
	05/11/11 13:00 CST		0	Hail (2.00 in)
	05/11/11 13:00 CST		0	Source: Public
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JEFFERSON COUNTY --- 5.0 WNW FT ATKINSON [42.96, -88.94]				
	05/11/11 13:26 CST		0	Hail (1.75 in)
	05/11/11 13:26 CST		0	Source: Law Enforcement
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DANE COUNTY --- 1.0 W SUN PRAIRIE [43.18, -89.22]				
	05/11/11 13:28 CST		0	Hail (1.00 in)
	05/11/11 13:28 CST		0	Source: Amateur Radio
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DANE COUNTY --- 4.7 NNE LONDON [43.11, -88.95]				
	05/11/11 13:30 CST		0	Hail (1.00 in)
	05/11/11 13:30 CST		0	Source: Trained Spotter
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JEFFERSON COUNTY --- 4.0 W JEFFERSON [43.00, -88.88]				
	05/11/11 13:34 CST		0	Hail (4.25 in)
	05/11/11 13:34 CST		0	Source: Emergency Manager
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JEFFERSON COUNTY --- 1.0 N JEFFERSON [43.01, -88.80]				
	05/11/11 13:40 CST		0	Hail (2.00 in)
	05/11/11 13:43 CST		0	Source: NWS Employee
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JEFFERSON COUNTY --- JOHNSON CREEK [43.08, -88.77]				
	05/11/11 13:40 CST		0	Hail (2.75 in)
	05/11/11 13:40 CST		0	Source: Public
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Report from the public of baseball-sized hail that broke windows on homes and vehicles.				
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DANE COUNTY --- 0.4 NE VERONA [42.98, -89.52]				
	05/11/11 15:08 CST		0	Hail (1.25 in)
	05/11/11 15:08 CST		0	Source: Amateur Radio
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DANE COUNTY --- 2.0 S DOWNTOWN MADISON [43.04, -89.42]				
	05/11/11 15:28 CST		0	Hail (1.25 in)
	05/11/11 15:28 CST		0	Source: Trained Spotter

Storm Data and Unusual Weather Phenomena - May 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
DANE COUNTY --- 1.2 NW MIDDLETON [43.11, -89.52]				
	05/11/11 15:30 CST	0		Hail (0.75 in)
	05/11/11 15:30 CST	0		Source: Trained Spotter
WAUKESHA COUNTY --- HARTLAND [43.10, -88.35]				
	05/11/11 15:30 CST	0		Hail (2.00 in)
	05/11/11 15:30 CST	0		Source: Trained Spotter
WAUKESHA COUNTY --- 1.0 S HARTLAND [43.09, -88.35]				
	05/11/11 15:37 CST	0		Hail (1.00 in)
	05/11/11 15:37 CST	0		Source: Amateur Radio
DANE COUNTY --- DOWNTOWN MADISON [43.07, -89.42]				
	05/11/11 15:38 CST	0		Hail (0.75 in)
	05/11/11 15:38 CST	0		Source: Trained Spotter
GREEN COUNTY --- 0.7 S MONROE [42.59, -89.63]				
	05/11/11 15:38 CST	0		Hail (1.00 in)
	05/11/11 15:38 CST	0		Source: Emergency Manager
WAUKESHA COUNTY --- HARTLAND [43.10, -88.35]				
	05/11/11 15:44 CST	0		Hail (1.25 in)
	05/11/11 15:44 CST	0		Source: NWS Employee
DANE COUNTY --- 1.6 SSE MONONA [43.05, -89.31]				
	05/11/11 15:45 CST	0		Hail (1.75 in)
	05/11/11 15:45 CST	0		Source: Trained Spotter
DANE COUNTY --- 1.8 SW COTTAGE GROVE [43.06, -89.23]				
	05/11/11 15:50 CST	0		Hail (1.00 in)
	05/11/11 15:50 CST	0		Source: Trained Spotter
DANE COUNTY --- COTTAGE GROVE [43.08, -89.20]				
	05/11/11 15:54 CST	0		Hail (0.88 in)
	05/11/11 15:54 CST	0		Source: Trained Spotter
DANE COUNTY --- DOWNTOWN MADISON [43.07, -89.42]				
	05/11/11 16:01 CST	0		Hail (0.75 in)
	05/11/11 16:01 CST	0		Source: Trained Spotter
RACINE COUNTY --- 1.0 SE BOHNERS LAKE [42.62, -88.26]				
	05/11/11 16:55 CST	0		Hail (0.88 in)
	05/11/11 16:55 CST	0		Source: Trained Spotter
<p>Strong to severe thunderstorms developed as lift associated with a 500 mb short wave moved into southern Wisconsin. The short wave eroded a cap on a moist and unstable air mass, with mixed-layer CAPE values of 2,000 to 3,000 J/KG, and enough deep-layer shear for sustained updrafts. There were numerous reports of large hail in the 1 to 2 inch range with the severe thunderstorms, with 4-inch hail reported in Jefferson County. While no specific damage reports were made to officials, the Jefferson County Emergency Management Director stated some properties might have received damage from the large hail, such as dents to vehicles.</p>				
FOND DU LAC COUNTY --- RIPON [43.83, -88.83]				
	05/12/11 16:08 CST	0		Hail (0.75 in)
	05/12/11 16:08 CST	0		Source: Law Enforcement

A few strong thunderstorms developed as lift associated with a 500 mb short wave interacted with an unstable air mass, with 1500 J/KG of mixed-layer CAPE and enough deep-layer shear for sustained updrafts over southern Wisconsin. There were reports of one-half inch to three-quarter inch hail, mainly in western Fond Du Lac County, and one-quarter inch hail in western sections of Racine and Kenosha counties.

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(WI-Z047) GREEN LAKE, (WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z060) OZAUKEE				
	05/13/11 01:00 CST	0		Dense Fog
	05/13/11 10:00 CST	0		
<p>Light north to northeast winds behind slowly departing low pressure advected moisture off of Lake Michigan into a cool air mass over east-central and portions of southeast Wisconsin during the early morning hours of May 13th. Visibilities fell to one-quarter mile or less, and lingered until the mid to late morning hours when drier air on increasing northwest winds dissipated the fog.</p>				
ROCK COUNTY --- 2.0 NE AFTON [42.62, -89.04]				
	05/13/11 05:24 CST	0		Hail (0.75 in)
	05/13/11 05:24 CST	0		Source: Trained Spotter
<p>A few strong elevated thunderstorms developed in the early morning hours as lift associated with warm air advection interacted with an unstable air mass, with 1000-2000 J/KG of mixed-layer CAPE and enough deep-layer shear for a few sustained updrafts over South Central Wisconsin. There were reports of three-quarter inch hail in Rock County.</p>				
(WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z060) OZAUKEE, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE, (WI-Z067) LAFAYETTE, (WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA				
	05/15/11 06:00 CST	90K		Strong Wind (MAX 41 kt)
	05/15/11 17:00 CST	0		
<p>A tight pressure gradient between low pressure over Ohio and a ridge of high pressure extending from North Dakota into Ontario, Canada, produced strong north to northeast winds over most of South-Central Wisconsin and Southeast Wisconsin. Daytime heating of dry air that had spread into the region with the leading edge of the high allowed mixing up to 40 to 45 knot winds about 5,000 feet above ground level. This mixing resulted in sustained winds of 30 to 35 mph and wind gusts up to 45 mph at the surface. Scattered power-outages were reported due to broken tree branches falling on and snapping power-lines.</p>				
MARQUETTE COUNTY --- WESTFIELD [43.88, -89.48]				
	05/22/11 14:00 CST	0		Hail (2.00 in)
	05/22/11 14:00 CST	0		Source: Trained Spotter
<p>A trained spotter reported leaves stripped from trees in Westfield by large hail.</p>				
MARQUETTE COUNTY --- 1.0 E WESTFIELD [43.88, -89.46]				
	05/22/11 14:05 CST	0		Hail (4.25 in)
	05/22/11 14:05 CST	0		Source: Fire Department/Rescue
MARQUETTE COUNTY --- 1.0 S WESTFIELD [43.87, -89.48]				
	05/22/11 14:10 CST	0		Hail (2.75 in)
	05/22/11 14:10 CST	0		Source: Public
MARQUETTE COUNTY --- 7.0 W NESHKORO [43.97, -89.36]				
	05/22/11 14:20 CST	0		Hail (1.75 in)
	05/22/11 14:20 CST	0		Source: Trained Spotter
GREEN LAKE COUNTY --- 8.0 N PRINCETON [43.97, -89.12]				
	05/22/11 14:22 CST	0		Hail (1.75 in)
	05/22/11 14:22 CST	0		Source: Law Enforcement
GREEN LAKE COUNTY --- 8.2 N PRINCETON [43.97, -89.12]				
	05/22/11 14:38 CST	0		Hail (1.75 in)
	05/22/11 14:38 CST	0		Source: Law Enforcement
DANE COUNTY --- 2.0 E (MSN)TRUAX FLD MADIS [43.13, -89.29]				
	05/22/11 15:45 CST	0		Hail (0.75 in)
	05/22/11 15:45 CST	0		Source: Trained Spotter
DANE COUNTY --- 2.0 W SUN PRAIRIE [43.18, -89.24], 4.4 N YORK CENTER [43.29, -89.07]				

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	05/22/11 15:50 CST		0	Hail (1.75 in)
	05/22/11 16:10 CST		0	Source: Amateur Radio
Ham radio operators reported severe thunderstorms dropped hail up to 1.75 inches in diameter in a 4-mile wide swath from 2 miles west of Sun Prairie to around 4 miles south-southwest of Columbus.				
JEFFERSON COUNTY --- 3.0 SW LAKE MILLS [43.05, -88.94], 1.0 NE LAKE MILLS [43.09, -88.89]				
	05/22/11 16:30 CST		0	Hail (1.00 in)
	05/22/11 16:35 CST		0	Source: Amateur Radio
Ham radio operators reported severe thunderstorms dropped hail up to 1.00 inch in diameter in a 3-mile wide swath from 3 miles southwest of Lake Mills to 1 mile northeast of Lake Mills.				
DODGE COUNTY --- 1.0 N CLYMAN [43.33, -88.72]				
	05/22/11 16:36 CST		0	Hail (1.00 in)
	05/22/11 16:36 CST		0	Source: Amateur Radio
DODGE COUNTY --- HUSTISFORD [43.35, -88.60]				
	05/22/11 16:40 CST		10K	Thunderstorm Wind (EG 60 kt)
	05/22/11 16:40 CST		0	Source: Newspaper
Numerous trees and power lines were reported blown down by damaging thunderstorm wind gusts in the Hustisford area. A tree fell on a home damaging the roof. A tree fell on an occupied car, and the driver injured his shoulder (indirectly-related) exiting the car. Total damage in the area amounted to \$10,000.				
JEFFERSON COUNTY --- 2.0 SW WATERTOWN [43.18, -88.75], WATERTOWN [43.20, -88.72]				
	05/22/11 16:50 CST		0	Hail (1.75 in)
	05/22/11 16:56 CST		0	Source: NWS Employee
ROCK COUNTY --- MILTON [42.77, -88.95]				
	05/22/11 16:51 CST		0	Hail (0.75 in)
	05/22/11 16:51 CST		0	Source: NWS Employee
JEFFERSON COUNTY --- 2.0 S WATERTOWN [43.17, -88.72], WATERTOWN [43.20, -88.72]				
	05/22/11 16:52 CST		50K	Thunderstorm Wind (EG 56 kt)
	05/22/11 16:54 CST		0	Source: Newspaper
Numerous trees and power lines were reported blown down by damaging thunderstorm wind gusts estimated at 56 knots in a swath from 2 miles south of Watertown to Watertown. A tree fell on a home, with minimal damage reported by firefighters responding to the scene. The winds blew over a shed that damaged fencing, a viewing platform and a horse trailer at the Avalon Therapeutic Equestrian Center. Damage in the area totaled \$50,000 dollars.				
JEFFERSON COUNTY --- FT ATKINSON [42.93, -88.85], JEFFERSON [43.00, -88.80]				
	05/22/11 16:55 CST		5K	Thunderstorm Wind (MG 50 kt)
	05/22/11 17:00 CST		0	Source: Mesonet
Trees and power lines were reported blown down by damaging thunderstorm wind gusts measured at 50 knots (58 mph) in a swath from Ft. Atkinson to Jefferson.				
WALWORTH COUNTY --- 8.0 S WHITEWATER [42.71, -88.73]				
	05/22/11 17:01 CST		0	Hail (1.25 in)
	05/22/11 17:01 CST		0	Source: Amateur Radio
DODGE COUNTY --- HUSTISFORD [43.35, -88.60]				
	05/22/11 17:05 CST		0.50K	Thunderstorm Wind (EG 56 kt)
	05/22/11 17:05 CST		0	Source: Public
A second round of severe thunderstorms affected Hustisford with damaging winds. This round downed trees that damaged a fence and did \$500 worth of damage to a house.				
WALWORTH COUNTY --- RICHMOND [42.72, -88.73], MILLARD [42.73, -88.62]				
	05/22/11 17:05 CST		0	Hail (1.75 in)
	05/22/11 17:10 CST		0	Source: Amateur Radio

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WALWORTH COUNTY --- WHITEWATER [42.83, -88.73]				
	05/22/11 17:10 CST		5K	Thunderstorm Wind (EG 52 kt)
	05/22/11 17:10 CST		0	Source: Trained Spotter
A trained spotter reported severe thunderstorm wind gusts that downed trees and tree limbs in Whitewater.				
WASHINGTON COUNTY --- HARTFORD [43.32, -88.38], ALLENTON [43.42, -88.33]				
	05/22/11 17:12 CST		10K	Thunderstorm Wind (EG 56 kt)
	05/22/11 17:15 CST		0	Source: Public
Severe thunderstorms affected locations along a Hartford to Allenton line with damaging winds. The severe wind gusts downed trees that damaged a car and a house.				
SAUK COUNTY --- 2.0 S REEDSBURG [43.50, -90.00]				
	05/22/11 17:18 CST		0	Hail (0.75 in)
	05/22/11 17:18 CST		0	Source: Public
WAUKESHA COUNTY --- 4.3 SW EAGLE [42.84, -88.54], 0.4 WNW NORTH PRAIRIE [42.93, -88.41]				
	05/22/11 17:18 CST		0	Hail (1.75 in)
	05/22/11 17:30 CST		0	Source: Fire Department/Rescue
A severe thunderstorm produced hail up to 1.75 inches in diameter in a 4-mile wide swath from the southwest corner of Waukesha County northeast to North Prairie.				
JEFFERSON COUNTY --- 3.7 NE OAK HILL [42.97, -88.55]				
	05/22/11 17:27 CST		0	Hail (1.25 in)
	05/22/11 17:27 CST		0	Source: Official NWS Observations
WASHINGTON COUNTY --- 4.0 E JACKSON [43.32, -88.09]				
	05/22/11 17:35 CST		0	Hail (1.00 in)
	05/22/11 17:35 CST		0	Source: Public
OZAUKEE COUNTY --- 0.3 N WAUBEKA [43.47, -87.98]				
	05/22/11 17:37 CST		0	Hail (1.00 in)
	05/22/11 17:37 CST		0	Source: Public
SHEBOYGAN COUNTY --- RANDOM LAKE [43.55, -87.97], 1.0 W CEDAR GROVE [43.57, -87.85]				
	05/22/11 17:39 CST		0	Thunderstorm Wind (MG 52 kt)
	05/22/11 17:45 CST		0	Source: Trained Spotter
A trained spotter reported severe thunderstorm wind gusts that downed trees and tree limbs along a line from Random Lake to a mile west of Cedar Grove.				
ROCK COUNTY --- 1.0 W BELOIT [42.52, -89.05], 4.0 W AFTON [42.60, -89.15]				
	05/22/11 18:05 CST		0	Thunderstorm Wind (MG 52 kt)
	05/22/11 18:05 CST		0	Source: Amateur Radio
A ham radio operator reported severe thunderstorm wind gusts that downed trees and tree limbs along a line from near Beloit to Afton. The downed trees blocked Findley Road for a time.				
WALWORTH COUNTY --- 2.0 S ELKHORN [42.64, -88.55]				
	05/22/11 18:30 CST		10K	Thunderstorm Wind (EG 52 kt)
	05/22/11 18:30 CST		0	Source: Emergency Manager
A severe thunderstorm produced wind gusts that downed power lines, trees and tree limbs just south of Elkhorn. The downed trees and limbs damaged a few homes as well as a fence.				
GREEN LAKE COUNTY --- 0.9 NE DALTON [43.66, -89.19], 1.3 NE DALTON [43.66, -89.18]				
	05/22/11 18:33 CST		1K	Tornado (EF0, L: 0.36 mi , W: 30 yd)
	05/22/11 18:34 CST		0	Source: Emergency Manager

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An EF0 tornado spun up about 2 miles south-southwest of Kingston about 900 ft southeast of the intersection of County Road H and State Highway 44 and traveled northeast approximately 1/3 mile before dissipating just south of State Highway 44. The tornado damaged a door on a shed, broke tree branches, and damaged a greenhouse. The EF-rating was based on DI 27(TH) DOD 2 with winds of 65 mph. The starting location was 43.658216/-89.185059 and the ending location was 43.661958/-89.179995. Average path width was about 15 yards.				

WALWORTH COUNTY --- LYONS [42.65, -88.35]

05/22/11 18:40 CST	0	Thunderstorm Wind (EG 56 kt)
05/22/11 18:40 CST	0	Source: Newspaper

A severe thunderstorm produced damaging wind gusts that downed trees in the town of Lyons, including a large maple tree that was estimated to be 235 years old, the oldest tree in Walworth County.

RACINE COUNTY --- 1.0 W BURLINGTON [42.67, -88.29], 3.0 E BURLINGTON [42.67, -88.21]

05/22/11 18:45 CST	0.15M	Thunderstorm Wind (EG 70 kt)
05/22/11 18:50 CST	0	Source: Newspaper

Severe thunderstorms produced damaging wind gusts estimated at 80 mph. Many power lines and trees were taken down by the strong winds, and several homes and cars were damaged.

GREEN LAKE COUNTY --- 0.7 WSW MARKESAN [43.72, -88.99], 3.5 E MARKESAN [43.73, -88.91]

05/22/11 18:47 CST	5K	Tornado (EF0, L: 4.21 mi , W: 50 yd)
05/22/11 18:55 CST	0	Source: Emergency Manager

An EF0 tornado spun up about 0.3 miles northwest of downtown Markesan just west of State Highway 44 (Margaret Street) about 1/2 mile south of the intersection with County Road H and traveled east-northeast slightly over 4 miles before dissipating near Utley, about 1/4 mile west-northwest of the intersection of Utley Road and County Highway Q. The tornado broke tree branches, with some of them snapping a couple power lines. The EF-rating was based on DI 27(TH) DOD 2 with winds of 75 mph. The starting location was 43.715256/-88.992648 and the ending location was 43.728902/-88.910465. The average path width was about 30 yards.

KENOSHA COUNTY --- 1.0 SW SILVER LAKE [42.54, -88.18], 1.0 NW PADDOCK LAKE [42.59, -88.13]

05/22/11 18:48 CST	0.10M	Thunderstorm Wind (EG 70 kt)
05/22/11 18:50 CST	0	Source: Newspaper

Severe thunderstorms produced damaging wind gusts estimated at 80 mph (70 knots). Many power lines and trees were taken down by the strong winds, and several homes and cars were damaged, including a home that had the roof taken off by the severe wind gusts.

RACINE COUNTY --- UNION GROVE [42.68, -88.05]

05/22/11 18:54 CST	0	Thunderstorm Wind (MG 52 kt)
05/22/11 18:54 CST	0	Source: Mesonet

MILWAUKEE COUNTY --- 2.0 W (MKE)MITCHELL APT MI [42.95, -87.94], (MKE)MITCHELL APT MI [42.95, -87.90]

05/22/11 19:02 CST	0	Thunderstorm Wind (MG 53 kt)
05/22/11 19:07 CST	0	Source: ASOS

A severe thunderstorm produced wind gusts measured up to 61 mph. The winds blew off a portion of the roof of a Day Inn at 13th Street and College Avenue.

A deep 500 mb low and associated surface low pressure tracked from eastern South Dakota into central Minnesota, lifting a warm front into Wisconsin during the early afternoon of May 22nd. Cool 500 mb temperatures and moist surface dew points in the lower 60s produced sufficient instability for thunderstorm development, with mean-layer CAPE of 2000 to 2500 J/KG. A mid-level jet streak of 50-60 knots produced 40-50 knots of deep-layer wind shear for supercell thunderstorm development, with low-level shear of 30 to 40 knots in the 0-1 km layer as a low-level jet strengthened enhancing the tornado potential, especially near the warm front.