

## Hurricane Force Winds in Wisconsin 1970-2007

This 38-year climatology for the state of Wisconsin consists of **thunderstorm-related** winds events of 75 mph or greater as documented in the *Storm Data* publication. It is worth noting that *Storm Data* lists numerous severe wind events over the years without an estimate or measurement of wind speed and are thus not included in this climatology. Also, when the same storm event registered high winds in neighboring counties, each county is accounted for, however, the few times that multiple winds at or above 75 mph were reported in the same county from the same event, only the highest wind was included in the report. All winds at or above 100 mph were included in this study. Consider each entry below a “county wind event” for the bean-counts.

Hurricane-force winds are defined as sustained winds of 74 mph or higher. In the past 38 years, Wisconsin has experienced winds of 75 mph or higher on 197 days, or about 5.2 days per year on average. The only year this didn't happen was in 1978. A total of 495 hurricane-force “county wind events” have been documented. This results in an average of 13.2 county wind events occur per year (hurricane-force thunderstorm winds).

Thunderstorm wind gusts of 100+ mph, similar to those of a Category 2 Hurricane, occurred in 16 years of the 38-year study, or about once every 2.8 years. A total of 59 county 100+ mph hurricane-force wind events occurred during the period of 1970-2007, for an average of 1.6 events per year, or alternatively, 3.9 events occurred in Wisconsin for those years that did have 100+ mph hurricane-force thunderstorm wind gusts. It is noteworthy that many of these events occurred on the same calendar day.

In many cases, the peak wind gust values are estimates, and in others it is a measured value.

<u>DATE</u>	<u>COUNTY</u>	<u>WIND SPEED</u>	
<b><u>1970</u></b>			
September 21 <sup>st</sup>	Oneida	115 mph	**
<b><u>1971</u></b>			
February 26 <sup>th</sup> - 27 <sup>th</sup>	Statewide ( <u>all 72 counties</u> )	75-80 mph	
June 19 <sup>th</sup>	Milwaukee	76 mph	
August 10 <sup>th</sup>	La Crosse	75 mph	
August 10 <sup>th</sup>	Winnebago	95 mph	
<b><u>1972</u></b>			
June 3 <sup>rd</sup>	Winnebago	75 mph	
<b><u>1973</u></b>			
June 18 <sup>th</sup>	Pepin	75-80 mph	
	Eau Claire	75-80 mph	
	Buffalo	75-80 mph	
	Trempealeau	75-80 mph	
	Jackson	75-80 mph	
	Clark	75-80 mph	
	Wood	75-80 mph	
	Portage	75-80 mph	

	Waupaca	75-80 mph
	Outagamie	75-80 mph
	Brown	75-80 mph
	Kewaunee	75-80 mph
	La Crosse	75-80 mph
	Monroe	75-80 mph
	Juneau	75-80 mph
	Adams	75-80 mph
	Waushara	75-80 mph
	Winnebago	75-80 mph
	Calumet	75-80 mph
	Manitowoc	75-80 mph
	Marquette	75-80 mph
	Green Lake	75-80 mph
	Fond du Lac	75-80 mph
	Sheboygan	75-80 mph
August 9 <sup>th</sup>	Milwaukee	80 mph

**1974**

May 21 <sup>st</sup>	Milwaukee	75 mph
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**1975**

January 11 <sup>th</sup>	Fond du Lac	77 mph
March 28 <sup>th</sup>	La Crosse	77 mph
April 3 <sup>rd</sup>	Vernon	75-80 mph
	Crawford	75-80 mph
	Richland	75-80 mph
	Sauk	75-80 mph
	Columbia	75-80 mph
	Dodge	75-80 mph
	Washington	75-80 mph
	Ozaukee	75-80 mph
	Grant	75-80 mph
	Iowa	75-80 mph
	Dane	75-80 mph
	Jefferson	75-80 mph
	Waukesha	75-80 mph
	Milwaukee	75-80 mph
	Lafayette	75-80 mph
	Green	75-80 mph
	Rock	75-80 mph
	Walworth	75-80 mph
	Racine	75-80 mph
	Kenosha	75-80 mph
May 19 <sup>th</sup>	Dane	>75 mph
June 22 <sup>nd</sup>	Grant	>90 mph
August 21 <sup>st</sup>	Pepin	>100 mph

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**1976**

	June 13 <sup>th</sup>	Monroe	80 mph	
<b><u>1977</u></b>				
	July 4 <sup>th</sup>	Price	>100 mph	**
		Sawyer	135 mph	**
		Oneida	>100 mph	**
	July 6 <sup>th</sup>	Jefferson	80 mph	
	August 31 <sup>st</sup>	Eau Claire	80 mph	
<b><u>1978</u></b>				
	none reported/verified			
<b><u>1979</u></b>				
	April 5 <sup>th</sup>	Statewide ( <i><b><u>all 72 counties</u></b></i> )	>75 mph	
	June 20 <sup>th</sup>	Fond Du Lac	75-90 mph	
<b><u>1980</u></b>				
	June 5 <sup>th</sup>	La Crosse	75-90 mph	
	June 27 <sup>th</sup>	Clark	75 mph	
	July 5 <sup>th</sup>	Fond Du Lac	75-90 mph	
	July 9 <sup>th</sup>	Rock	75-80 mph	
	July 10 <sup>th</sup>	Bayfield	80 mph	
	July 11 <sup>th</sup>	Pierce	75-80 mph	
		St. Croix	75-80 mph	
	July 15 <sup>th</sup>	Walworth	75-80 mph	
		St. Croix	75-120 mph	**
		Pierce	75-120 mph	**
		Dunn	75-120 mph	**
		Pepin	75-120 mph	**
		Chippewa	75-120 mph	**
		Eau Claire	75-120 mph	**
	July 20 <sup>th</sup>	Adams	75-80 mph	
		Columbia	75-80 mph	
	August 2 <sup>nd</sup>	Green	75-80 mph	
		Rock	75-80 mph	
	August 4 <sup>th</sup>	Waukesha	93 mph	
		Kenosha	92 mph	
	August 6 <sup>th</sup>	Washburn	80-90 mph	
	August 7 <sup>th</sup>	Dodge	75-80 mph	
		Jefferson	75-80 mph	
	August 19 <sup>th</sup>	Monroe	75-80 mph	
		Wood	75-80 mph	
	August 20 <sup>th</sup>	Wood	75-80 mph	
	September 3 <sup>rd</sup>	Pierce	80 mph	
	September 9 <sup>th</sup>	Winnebago	75-80 mph	
<b><u>1981</u></b>				
	March 29 <sup>th</sup>	Dane	75-90 mph	
	March 31 <sup>st</sup>	Clark	100 mph	**
	May 29 <sup>th</sup>	Dane	75-80 mph	

August 3 <sup>rd</sup>	Polk	80 mph	
	Barron	80 mph	
	Rusk	80 mph	
August 6 <sup>th</sup>	Oconto	80 mph	
August 31 <sup>st</sup>	Jefferson	80 mph	

**1982**

April 3 <sup>rd</sup>	Washington	80 mph	
July 6 <sup>th</sup>	St. Croix	80-100 mph	**
	Milwaukee	80 mph	
July 17 <sup>th</sup>	Iron	>100 mph	**
	Vilas	>100 mph	**
	Forest	>100 mph	**
	Price	>100 mph	**
	Oneida	>100 mph	**
	Lincoln	>100 mph	**
	Langlade	>100 mph	**
July 25 <sup>th</sup>	Jackson	75-80 mph	
August 3 <sup>rd</sup>	Winnebago	75-85 mph	

**1983**

July 3 <sup>rd</sup>	Douglas	>100 mph	**
	Bayfield	>100 mph	**
	Ashland	>100 mph	**
	Burnett	>100 mph	**
	Washburn	>100 mph	**
	Sawyer	>100 mph	**
	Polk	>100 mph	**
	Barron	>100 mph	**
	Rusk	>100 mph	**
July 19 <sup>th</sup>	St. Croix	100 mph	**
	Barron	75 mph	
	Dunn	80 mph	
	La Crosse	76 mph	
	Winnebago	80 mph	
	Fond du Lac	80 mph	
	Jefferson	80 mph	
	Rock	75 mph	
	Manitowoc	80-100 mph	**
September 6 <sup>th</sup>	Oneida	90 mph	

**1984**

April 27 <sup>th</sup>	Buffalo	79 mph	
July 9 <sup>th</sup>	Sawyer	75 mph	
	Rock	75 mph	
	Waukesha	80 mph	
July 14 <sup>th</sup>	Monroe	75 mph	
October 16 <sup>th</sup>	Taylor	75 mph	

**1985**

	June 7 <sup>th</sup>	La Crosse	78 mph	
	June 8 <sup>th</sup>	Marinette	80 mph	
<b><u>1986</u></b>				
	June 10 <sup>th</sup>	Pepin	80 mph	
	June 21 <sup>st</sup>	Douglas	85 mph	
	July 18 <sup>th</sup>	Door	80 mph	
	September 26 <sup>th</sup>	Sheboygan	75 mph	
<b><u>1987</u></b>				
	February 8 <sup>th</sup>	Rock	86 mph	
	June 18 <sup>th</sup>	Door	75 mph	
	July 11 <sup>th</sup>	Shawano	80 mph	
		Marinette	80 mph	
	July 23 <sup>rd</sup>	St. Croix	80 mph	
	July 29 <sup>th</sup>	Rock	104 mph	**
		Waukesha	75 mph	
<b><u>1988</u></b>				
	June 19 <sup>th</sup>	Dunn	79 mph	
	June 22 <sup>nd</sup>	Door	105 mph	**
	July 11 <sup>th</sup>	Marathon	75 mph	
<b><u>1989</u></b>				
	May 24 <sup>th</sup>	Outagamie	87 mph	
		Brown	87 mph	
	June 26 <sup>th</sup>	Grant	85 mph	
	August 4 <sup>th</sup>	Milwaukee	75 mph	
	October 15 <sup>th</sup>	Trempealeau	75 mph	
<b><u>1990</u></b>				
	March 15 <sup>th</sup>	Waukesha	79 mph	
	June 2 <sup>nd</sup>	Eau Claire	75 mph	
	June 29 <sup>th</sup>	Rock	85 mph	
	August 26 <sup>th</sup>	Clark	91 mph	
		La Crosse	76 mph	
<b><u>1991</u></b>				
	March 27 <sup>th</sup>	Milwaukee	89 mph	
	June 27 <sup>th</sup>	Ashland	103 mph	**
	July 7 <sup>th</sup>	Dane	83 mph	
		Jefferson	80 mph	
		Waukesha	80 mph	
		Ozaukee	79 mph	
<b><u>1992</u></b>				
	May 11 <sup>th</sup>	Waukesha	80 mph	
	May 16 <sup>th</sup>	Taylor	75 mph	
	June 17 <sup>th</sup>	Racine	75 mph	

	June 17 <sup>th</sup>	Kenosha	86 mph	
<b><u>1993</u></b>	July 8 <sup>th</sup>	Milwaukee	77 mph	
	August 23 <sup>rd</sup>	Washington	80 mph	
<b><u>1994</u></b>	April 18 <sup>th</sup>	Kenosha	80 mph	
	July 4 <sup>th</sup>	Milwaukee	77 mph	
	August 27 <sup>th</sup>	Sawyer	85 mph	
	September 13 <sup>th</sup>	Adams	80 mph	
<b><u>1995</u></b>	July 9 <sup>th</sup>	Waushara	75-80 mph	
	July 15 <sup>th</sup>	Kenosha	75 mph	
	August 28 <sup>th</sup>	Green Lake	75 mph	
		Racine	84 mph	
<b><u>1996</u></b>	April 19 <sup>th</sup>	Kenosha	80-100 mph	**
	May 19 <sup>th</sup>	Wood	80 mph	
		Buffalo	90 mph	
		Trempealeau	90 mph	
		Jackson	90 mph	
		Clark	85 mph	
		St. Croix	98 mph	
		Pierce	85 mph	
		Dunn	81 mph	
		Pepin	86 mph	
		Chippewa	75 mph	
		Eau Claire	77 mph	
	June 29 <sup>th</sup>	Pierce	81 mph	
	July 18 <sup>th</sup>	Lincoln	81 mph	
	July 18 <sup>th</sup>	Waupaca	100 mph	**
	August 7 <sup>th</sup>	Oneida	81 mph	
	October 30 <sup>th</sup>	Racine	75 mph	
<b><u>1997</u></b>	April 6 <sup>th</sup>	Dodge	82 mph	
		Waukesha	75 mph	
		Walworth	81 mph	
		Kenosha	77 mph	
	June 15 <sup>th</sup>	Vernon	81 mph	
	June 24 <sup>th</sup>	Waupaca	75 mph	
		Dodge	85 mph	
	July 1 <sup>st</sup>	Wood	75 mph	
		Marathon	81 mph	
		Clark	90 mph	
	July 2 <sup>nd</sup>	Clark	75 mph	
	July 16 <sup>th</sup>	Menominee	98 mph	
		Outagamie	82 mph	

July 18 <sup>th</sup>	Kenosha	92 mph	
August 3 <sup>rd</sup>	Waukesha	70-80 mph	

**1998**

May 15 <sup>th</sup>	Rusk	81 mph	
May 30 <sup>th</sup>	Pierce	75 mph	
	St. Croix	86 mph	
	Dunn	86 mph	
May 31 <sup>st</sup>	Marathon	85 mph	
	Winnebago	86 mph	
	Calumet	86 mph	
	Douglas	75 mph	
	Walworth	78 mph	
	Sauk	100-120 mph	**
	Columbia	90-115 mph	**
	Iowa	100-115 mph	**
	Dane	110-120 mph	**
	Lafayette	100 mph	**
	Dodge	100-128 mph	**
	Fond du Lac	115-125 mph	**
	Green	70-80 mph	
	Jefferson	110-120 mph	**
	Sheboygan	110-120 mph	**
	Washington	115-125 mph	**
	Waukesha	100-110 mph	**
	Ozaukee	100-110 mph	**
	Milwaukee	110-115 mph	**
	La Crosse	75 mph	
	Crawford	79 mph	
	Monroe	75 mph	
	Vernon	79 mph	
	Grant	77 mph	
June 25 <sup>th</sup>	Door	75 mph	
	Wood	75 mph	
June 27 <sup>th</sup>	Trempealeau	86 mph	
	Vernon	84 mph	
	Jackson	95 mph	
	Monroe	101 mph	**
July 19 <sup>th</sup>	Crawford	92 mph	
	Grant	81 mph	
July 20 <sup>th</sup>	Walworth	100-110 mph	**
July 21 <sup>st</sup>	Walworth	100-110 mph	**
	Racine	100-110 mph	**
	Kenosha	100-110 mph	**

**1999**

June 5 <sup>th</sup>	Dunn	75 mph	
	Pepin	75 mph	
	Vilas	81 mph	
	Forest	81 mph	

June 6 <sup>th</sup>	Ashland	75 mph
	Rock	75 mph
	Waukesha	81 mph
July 8 <sup>th</sup>	La Crosse	75 mph
July 12 <sup>th</sup>	Outagamie	75 mph
July 23 <sup>rd</sup>	Rusk	75 mph
July 30 <sup>th</sup>	Florence	75 mph
	Price	87 mph
	Rusk	75 mph

**2000**

May 8 <sup>th</sup>	Green	81 mph	
May 11 <sup>th</sup>	Waukesha	75 mph	
May 12 <sup>th</sup>	Calumet	80 mph	
	Manitowoc	80 mph	
	Milwaukee	75 mph	
	Dane	75 mph	
	Marquette	81 mph	
	Monroe	98 mph	
June 1 <sup>st</sup>	Juneau	100 mph	**
	Adams	98 mph	
July 2 <sup>nd</sup>	Waukesha	78 mph	
July 8 <sup>th</sup>	Chippewa	75 mph	
August 5 <sup>th</sup>	Green	85 mph	
	Rock	100-115 mph	**
September 1 <sup>st</sup>	Adams	75 mph	
September 11 <sup>th</sup>	Dane	75 mph	

**2001**

April 11 <sup>th</sup>	Rock	81 mph
April 23 <sup>rd</sup>	Lincoln	75 mph
May 9 <sup>th</sup>	Pierce	74 mph
June 11 <sup>th</sup>	Wood	77 mph
	Waupaca	74 mph
	Winnebago	75 mph
	Outagamie	75 mph
	Price	75 mph
	Burnett	81 mph
	Dodge	81 mph
	Sheboygan	90 mph
	Jackson	75 mph
	Barron	87 mph
	Pierce	75 mph
	Rusk	79 mph
	Pepin	75 mph
August 9 <sup>th</sup>	Door	76 mph
September 7 <sup>th</sup>	Sauk	75 mph

**2002**

April 17 <sup>th</sup>	Dunn	75 mph
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April 18 <sup>th</sup>	Marathon	75 mph
May 8 <sup>th</sup>	Chippewa	81 mph
June 21 <sup>st</sup>	Buffalo	81 mph
July 30 <sup>th</sup>	Clark	81 mph
	Adams	81 mph
	Clark	81 mph
August 11 <sup>th</sup>	Dane	81 mph
August 21 <sup>st</sup>	Iowa	75 mph
	Lafayette	81 mph
	Fond du Lac	81 mph
	Waukesha	100 mph
	Milwaukee	81 mph
	Racine	85 mph
	Milwaukee	75 mph
September 2 <sup>nd</sup>	Taylor	81 mph
	Taylor	81 mph

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### **2003**

June 25 <sup>th</sup>	Rock	75 mph
July 6 <sup>th</sup>	Dane	75 mph
July 6 <sup>th</sup>	Rock	75 mph
July 15 <sup>th</sup>	Jefferson	75 mph
August 20 <sup>th</sup>	Grant	81 mph
August 20 <sup>th</sup>	Grant	75 mph

### **2004**

April 18 <sup>th</sup>	Vilas	75 mph
	Florence	75 mph
	Green Lake	75 mph
May 21 <sup>st</sup>	Washington	90 mph
	Ozaukee	75 mph
May 23 <sup>rd</sup>	Manitowoc	75 mph
	Walworth	75 mph
June 23 <sup>rd</sup>	Jefferson	92 mph
	Dane	75 mph
	Racine	80 mph
July 16 <sup>th</sup>	Columbia	75 mph
July 19 <sup>th</sup>	Trempealeau	75 mph
	Trempealeau	75 mph
	La Crosse	75 mph
July 21 <sup>st</sup>	Iowa	75 mph
August 3 <sup>rd</sup>	Columbia	75 mph
August 26 <sup>th</sup>	Columbia	80 mph
August 27 <sup>th</sup>	Fond du Lac	75 mph

### **2005**

March 30 <sup>th</sup>	Washington	81 mph
June 4 <sup>th</sup>	Iowa	75 mph
	Jefferson	75 mph

June 5 <sup>th</sup>	Taylor	82 mph	
	Dodge	75 mph	
	Fond du Lac	75 mph	
	Sauk	75 mph	
	Sauk	75 mph	
June 7 <sup>th</sup>	Chippewa	82 mph	
	Forest	90 mph	
	Marathon	81 mph	
June 29 <sup>th</sup>	Sawyer	78 mph	
June 30 <sup>th</sup>	Rock	75 mph	
July 23 <sup>rd</sup>	Dodge	75 mph	
	Dodge	75 mph	
	Buffalo	78 mph	
	Trempealeau	75 mph	
	Clark	75 mph	
	Jackson	75 mph	
	Jackson	75 mph	
	Portage	75 mph	
	July 25 <sup>th</sup>	Walworth	75 mph
		Rock	75 mph
Rock		75 mph	
Sauk		75 mph	
Washington		75 mph	
August 9 <sup>th</sup>	Buffalo	78 mph	
	Trempealeau	75 mph	
	Juneau	75 mph	
August 18 <sup>th</sup>	Dane	75 mph	
	Lafayette	81 mph	
	Lafayette	81 mph	
	Lafayette	81 mph	
September 12 <sup>th</sup>	Polk	86 mph	
September 13 <sup>th</sup>	Outagamie	75 mph	
	Calumet	76 mph	
	Outagamie	75 mph	
	Brown	81 mph	
	Brown	75 mph	

## **2006**

April 13 <sup>th</sup>	Calumet	100 mph	**
	Fond du Lac	90 mph	
	Calumet	81 mph	
June 6 <sup>th</sup>	Sheboygan	90 mph	
	Dane	81 mph	
June 21 <sup>st</sup>	Washington	75 mph	
July 1 <sup>st</sup>	Fond du Lac	75 mph	
July 3 <sup>rd</sup>	Forest	75 mph	
July 17 <sup>th</sup>	Sheboygan	75 mph	
	Sheboygan	75 mph	
	Calumet	81 mph	

July 20 <sup>th</sup>	Manitowoc	81 mph
	Iowa	75 mph
	Sauk	75 mph
	Lafayette	75 mph
	Dane	75 mph
	Lafayette	75 mph
	Dane	82 mph
	Green	75 mph
	Lafayette	75 mph
	Green	75 mph
July 30 <sup>th</sup>	Bayfield	81 mph
August 23 <sup>rd</sup>	Monroe	75 mph
	Monroe	75 mph
August 24 <sup>th</sup>	Trempealeau	81 mph

## 2007

May 14 <sup>th</sup>	Marinette	75 mph
June 1 <sup>st</sup>	Dodge	75 mph
June 7 <sup>th</sup>	Marinette	81 mph
	Walworth	75 mph
June 18 <sup>th</sup>	Kenosha	85 mph
	Racine	85 mph
June 20 <sup>th</sup>	Marinette	81 mph
	Langlade	81 mph
July 3 <sup>rd</sup>	Iowa	74 mph
July 18 <sup>th</sup>	Waupaca	74 mph
	Brown	81 mph
	Vilas	81 mph
July 26 <sup>th</sup>	Calumet	74 mph
	St. Croix	81 mph
	St. Croix	90 mph
August 21 <sup>st</sup>	Iowa	74 mph
	Sauk	74 mph
	Sauk	74 mph
August 22 <sup>nd</sup>	Milwaukee	78 mph
	Green	74 mph
August 28 <sup>th</sup>	Marinette	74 mph
September 18 <sup>th</sup>	Columbia	74 mph

\*\* denotes measured/estimated wind speeds that reached or exceeded 100 mph