



National Weather Service

Storm Data and Unusual Weather Phenomena



July 1999

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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MINNESOTA, Central and South Central

Lac Qui Parle County									
Dawson	03	0145CST			0	0			Thunderstorm Wind (55)
Trees, power lines down. Winds estimated.									
Swift County									
Appleton	03	0154CST			0	0			Thunderstorm Wind (50)
Few trees down. Winds estimated.									
Redwood County									
Lamberton	03	0155CST			0	0			Thunderstorm Wind (55)
Few trees broken in half. Winds estimated.									
Chippewa County									
5 NE Montevideo	03	0200CST			0	0			Thunderstorm Wind (60)
Roof off grain bin. Few trees uprooted. Winds estimated.									
Brown County									
Springfield	03	0215CST			0	0			Thunderstorm Wind (65)
Roof partially off house. Winds estimated.									
Redwood County									
2 W Sanborn	03	0215CST			0	0			Thunderstorm Wind (65)
Cattle barn and top of silo demolished. Winds estimated.									
Brown County									
New Ulm	03	0225CST			0	0			Thunderstorm Wind (60)
Portion of old one story building collapsed onto car. Large tree limbs down. Winds estimated.									
Watonwan County									
Darfur	03	0229CST			0	0			Hail(1.75)
Renville County									
Fairfax	03	0240CST			0	0			Thunderstorm Wind (50)
Numerous 6 inch diameter branches down. Winds estimated.									
Watonwan County									
St James	03	0240CST			0	0			Thunderstorm Wind (55)
Few trees down. Winds estimated.									
Kandiyohi County									
New London	03	0252CST			0	0			Thunderstorm Wind (55)
Power lines down. Winds estimated.									
Watonwan County									
1 E Madelia	03	0300CST			0	0			Thunderstorm Wind (70)
A number of barns, grain bins and trees damaged. Some barns were picked up and moved off their foundations, while others were flattened. Four grain bins blown off their foundations. Two tractors crushed. Winds estimated.									
Nicollet County									
Courtland	03	0310CST			0	0			Thunderstorm Wind (50)
Ten inch diameter trees snapped in half. Winds estimated.									
Stearns County									
Rockville	03	0312CST			0	0			Hail(0.75)
Sibley County									
Arlington	03	0330CST			0	0			Thunderstorm Wind (60)
Barn down. Winds estimated.									
Stearns County									
6 S St Cloud	03	0330CST			0	0			Thunderstorm Wind (50)
Shed down. Winds estimated.									



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MINNESOTA, Central and South Central

Sherburne County

Elk River 03 0340CST 0 0 Thunderstorm Wind (50)
Six inch tree branches severed. Winds estimated.

Wright County

3 SW Delano 03 0340CST 0 0 Thunderstorm Wind (55)
Trees toppled. Winds estimated.

Wright County

Montrose 03 0340CST 0 0 Thunderstorm Wind (55)
Trees toppled. Winds estimated.

Carver County

Watertown 03 0345CST 0 0 Thunderstorm Wind (50)
Few trees toppled and large branches felled. Winds estimated.

Renville County

Olivia 08 0515CST 0 0 Thunderstorm Wind (60)
Trees blown down. Winds estimated.

Nicollet County

5 NW Courtland 08 0606CST 0 0 Hail(0.75)

Le Sueur County

4 NW Greenland 08 0642CST 0 0 Hail(0.75)

Le Sueur County

3 N Elysian 08 0645CST 0 0 Hail(0.75)

Goodhue County

2 SW Roscoe 08 1640CST 0 0 Hail(0.75)

Freeborn County

2 W Albert Lea 08 1815CST 0 0 Hail(0.75)

Freeborn County

Albert Lea 08 1830CST 0 0 Thunderstorm Wind (55)
Trees toppled. Winds estimated.

Chisago County

Harris 09 1055CST 0 0 Funnel Cloud

Chisago County

1 W Stark 09 1110CST 0 0 Funnel Cloud

Chisago County

2 E Almelund 09 1128CST 0.5 25 0 0 Tornado (F0)
A shed and a few trees blown down.

Chisago County

3 N Center City 09 1135CST 0.5 25 0 0 Tornado (F0)
Tornado touched down in open field.

Chisago County

1 SW Palmdale 09 1145CST 0.2 25 0 0 Tornado (F0)
A few trees down.

Kanabec County

4 SW Grasston 09 1210CST 0 0 Funnel Cloud

Redwood County

2 WSW Walnut Grove 13 2010CST 0 0 Hail(0.88)

Hennepin County

Rockford 13 2155CST 0 0 Hail(1.00)
Rockford straddles both Hennepin and Wright Counties.



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MINNESOTA, Central and South Central

Wright County									
5 NE Delano	13	2155CST			0	0			Hail(1.00)
Occurred in the city of Rockford on the Wright County side									
Wright County									
5 SE Buffalo	13	2200CST			0	0			Hail(1.75)
Anoka County									
Anoka	13	2208CST			0	0			Hail(0.75)
Anoka County									
Andover	13	2211CST			0	0			Hail(1.00)
Anoka County									
Coon Rapids	13	2215CST			0	0			Hail(0.75)
Chisago County									
Wyoming	13	2232CST			0	0			Hail(0.75)
Wright County									
Monticello	13	2245CST			0	0			Hail(0.75)
Douglas County									
5 SW Evansville	15	1630CST			0	0			Hail(1.00)
Douglas County									
5 SW Evansville	15	1630CST			0	0			Thunderstorm Wind (55)
Two trees down. Estimated windspeed.									
Douglas County									
2 SW Evansville	15	1635CST			0	0			Hail(0.75)
Douglas County									
1 N Holmes City	15	1640CST			0	1			Thunderstorm Wind (55)
Large trees toppled, one onto a camper; slight injury to man inside. Estimated winds.									
Stevens County									
Morris	22	2148CST			0	0			Thunderstorm Wind (55)
Estimated winds. Trees felled. One vehicle damaged.									
Kandiyohi County									
Willmar Arpt	22	2218CST			0	0			Thunderstorm Wind (53)
Several intersections in Willmar blocked by fallen trees. AWOS measurement.									
Douglas County									
Miltona	22	2232CST			0	0			Thunderstorm Wind (65)
Estimated winds. Roof ripped off home. Auto damaged.									
Renville County									
Olivia	22	2245CST			0	0			Thunderstorm Wind (50)
Estimated winds, six inch branches severed.									
Todd County									
1 W Long Prairie	22	2300CST			0	0			Thunderstorm Wind (65)
Estimated winds. Barn collapsed and several oak trees downed									
Morrison County									
Little Falls	22	2320CST			0	0			Thunderstorm Wind (55)
Estimated winds, trees down.									
Stearns County									
St Cloud	22	2325CST			0	0			Thunderstorm Wind (55)
Estimated winds.									



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MINNESOTA, Central and South Central

Mcleod County

Winsted 22 2350CST 0 0 **Thunderstorm Wind (55)**
Estimated winds, trees felled.

Meeker County

6 S Litchfield 22 2355CST 0 0 **Thunderstorm Wind (50)**
Estimated winds. Several docks and boats flipped on Lake Minnie Belle.

Kanabec County

9 W Mora 23 0010CST 0 0 **Hail(1.50)**

Mille Lacs County

Princeton 23 0012CST 0 0 **Thunderstorm Wind (55)**
Estimated winds. Power lines down.

Kanabec County

Mora 23 0015CST 0 0 **Thunderstorm Wind (55)**
Estimated Winds. Trees down.

Isanti County

Braham 23 0030CST 0 0 **Thunderstorm Wind (50)**
Estimated winds, trees toppled.

Isanti County

Isanti 23 0030CST 0 0 **Thunderstorm Wind (50)**
Estimated winds, trees down.

Ramsey County

Little Canada 23 0040CST 0 0 **Thunderstorm Wind (50)**
Estimated winds, trees felled.

Washington County

Birchwood 23 0040CST 0 0 **Hail(1.00)**

Chisago County

North Branch 23 0105CST 0 0 **Thunderstorm Wind (60)**
Estimated Winds. Trees, powerlines toppled.

Brown County

4 NE Evan 23 0335CST 0 0 **Hail(1.50)**
Hail accompanied by winds gusting to 40 knots flattened corn, soybean, and other crops

MNZ041>045-047>070-073>078-082>085-091>093 **Douglas - Todd - Morrison - Mille Lacs - Kanabec - Stevens - Pope - Stearns - Benton - Sherburne - Isanti - Chisago - Lac Qui Parle - Swift - Chippewa - Kandiyohi - Meeker - Wright - Hennepin - Anoka - Ramsey - Washington - Yellow Medicine - Renville - Mcleod - Sibley - Carver - Scott - Dakota - Redwood - Brown - Nicollet - Le Sueur - Rice - Goodhue - Watonwan - Blue Earth - Waseca - Steele - Martin - Faribault - Freeborn**

23 1000CST 1 0 **Excessive Heat**
25 2300CST

A massive upper ridge over the central and eastern U.S. enabled heat to build into Minnesota. Heat indices ranged from 95 to 110 the afternoon of the 23rd, 90 to 105 on the 24th, and climaxed at 95 to 116 on the 25th before a cold front moved in. Indices only dropped into the 70s the mornings of the 24th and 25th. Dewpoints in the middle and upper 70s were common, along with temperatures topping out in the lower and middle 90s. The highest indices noted, all on the 25th, were 116 in Lakeville, 113 in Appleton, and 110 in Faribault, Redwood Falls and Benson. A 43 year old man died in Willmar after falling asleep inside a closed vehicle on the 25th. M43VE

Todd County

Grey Eagle 25 1630CST 0 0 **Hail(0.75)**

Todd County

Grey Eagle 25 1630CST 0 0 **Thunderstorm Wind (50)**
Estimated Winds, large branches down.



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MINNESOTA, Central and South Central

Morrison County 5 S Little Falls	25	1710CST	0.2	25	0	0			Tornado (F0) Large trees down.
Morrison County 3 S Little Falls	25	1711CST			0	0			Hail(1.00)
Morrison County 1 E Royalton	25	1722CST			0	0			Hail(2.50)
Morrison County Little Rock	25	1730CST			0	0			Hail(0.75)
Stearns County Freeport	25	1825CST			0	0			Thunderstorm Wind (50) Several large trees downed, including one which fell onto a house, breaking through the roof. Estimated windspeed.
Stearns County 5 N Avon	25	1910CST			0	0			Hail(0.75)
Stearns County Holdingford	25	1910CST			0	0			Hail(0.75)
Stearns County St Stephen	25	1910CST			0	0			Hail(0.75)
Stearns County 10 N St Cloud	25	1924CST			0	0			Thunderstorm Wind (52) Estimated winds, a few small trees down.
Benton County 2 SE Rice	25	1929CST			0	0			Hail(1.00)
Benton County Popple Creek	25	1935CST			0	0			Thunderstorm Wind (55) Winds estimated. Several trees toppled.
Lac Qui Parle County Madison	27	1750CST			0	0			Thunderstorm Wind (60) Estimated winds. Trees down, some on houses and sheds. Trailer flipped. Forty foot KLQP-FM relay tower downed.
Swift County Appleton	27	1750CST			0	0			Thunderstorm Wind (55) Estimated winds. Trees felled, one onto a car.
Chippewa County 4 NW Milan to Milan	27	1755CST			0	0			Thunderstorm Wind (60) Estimated winds. Steel siding ripped off barn. Numerous trees down in Milan, some on houses.
Chippewa County 5 N Gluek to 6 NE Gluek	27	1815CST 1820CST	3	20	0	0			Tornado (F1) Barn and outbuildings down. Roof off grainery. Trees down. 14 sheep killed.
Chippewa County Montevideo	27	1815CST			0	0			Thunderstorm Wind (50) Estimated winds. A few trees down.



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					Killed	Injured	Property	Crops	
<u>MINNESOTA, Central and South Central</u>									
Chippewa County Clara City to 5 NE Clara City	27	1820CST			0	0			Thunderstorm Wind (57)
			Estimated winds. A few trees toppled.						
Chippewa County Montevideo Arpt	27	1820CST			0	0			Thunderstorm Wind (53)
			Measured windspeed by AWOS.						
Kandiyohi County 2 W Spicer	27	1820CST			0	0			Hail(0.75)
Kandiyohi County Raymond	27	1825CST			0	0			Thunderstorm Wind (55)
			Estimated winds. A few trees down.						
Kandiyohi County Willmar	27	1830CST			0	0			Thunderstorm Wind (51)
			Windspeed measured at KWLM/KQIC radio.						
Kandiyohi County Svea	27	1840CST			0	0			Thunderstorm Wind (50)
			Estimated winds. Large branches down.						
Yellow Medicine County Granite Falls	27	1845CST			0	0			Thunderstorm Wind (55)
			Estimated winds. Trees and power lines felled.						
Meeker County Cosmos	27	1900CST			0	0			Thunderstorm Wind (60)
			Estimated winds. Numerous powerlines down.						
Renville County 7 S Olivia	27	1906CST			0	0			Thunderstorm Wind (55)
			Estimated winds. Trees down.						
Todd County Eagle Bend	28	2248CST			0	0			Hail(1.00)
Stearns County Albany	28	2305CST			0	0			Hail(0.88)
Morrison County 5 SW Harding	28	2335CST			0	0			Hail(1.00)
Stearns County St Stephen	28	2340CST			0	0			Hail(0.88)
Benton County 2 S Rice	28	2345CST			0	0			Hail(0.88)
Benton County 1 N Glendorado	29	0015CST			0	0			Hail(1.00)
Mille Lacs County Princeton Muni Arpt	29	0015CST			0	0			Hail(1.50)
Morrison County 5 N Hillman	29	0020CST			0	0			Hail(1.00)
Kanabec County 4 S Ogilvie	29	0050CST			0	0			Hail(1.00)



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MINNESOTA, Central and South Central

MNZ041>045-047>070-073>078-082>085-091>093 Douglas - Todd - Morrison - Mille Lacs - Kanabec - Stevens - Pope - Stearns - Benton - Sherburne - Isanti - Chisago - Lac Qui Parle - Swift - Chippewa - Kandiyohi - Meeker - Wright - Hennepin - Anoka - Ramsey - Washington - Yellow Medicine - Renville - McLeod - Sibley - Carver - Scott - Dakota - Redwood - Brown - Nicollet - Le Sueur - Rice - Goodhue - Watonwan - Blue Earth - Waseca - Steele - Martin - Faribault - Freeborn

29	0300CST		0	0	
30	1900CST				Excessive Heat

Less than one week after the first heat wave, central and south central Minnesota were belted with even greater heat, especially on the 30th. The morning of the 29th started with lows in the 70s and dewpoints in the middle 60s to middle 70s, producing heat indices from 70 to 85. With afternoon highs well into the 90s, and dewpoints ranging from the middle 60s to upper 70s, heat indices climbed to the 95 to 114 range. Southern Minnesota bore the brunt of the heat this day with numerous triple digit indices. Faribault recorded the highest index at 114, with 113 at St. James, 111 at Redwood Falls, and 110 at Appleton and New Ulm. Though farther north, the central Minnesota cities of Mora and Little Falls still registered an index in the middle 90s

A muggy night pervaded southern Minnesota, as some locations saw their low temperature remain around 80. Combined with dewpoints in the 70s, the heat index hovered in the lower and middle 80s at locations such as Minneapolis/St. Paul, Redwood Falls and Albert Lea. Central Minnesota locations had an overnight heat index in the 70s

By 0900 CST on the 30th, the heat index had already climbed past 100 at Minneapolis/St. Paul and many other locales. High temperatures soared into the middle and upper 90s. Dewpoints neared 80, and some spots even exceeded 80. At 0755 CST, Minneapolis/St. Paul (MSP) tied an alltime record high dewpoint of 81 (equalling a mark set in 1995). Thus the heat index exceeded 110 in most areas. The highest reading was 122 at Faribault. A sampling of the heat index at other locations revealed 119 at Mora and Eden Prairie (Flying Cloud Airport/FCM), 116 at Redwood Falls, 115 at St. Cloud, and 113 at Glenwood. A cold front moved in later on the 30th, bringing severe thunderstorms and an end to the heat wave

Pope County									
1 SW Grovelake	30	1315CST		0	0		Hail(0.75)		
Pope County									
1 SW Grovelake	30	1315CST		0	0		Thunderstorm Wind (50)		
Large branches down. Estimated windspeed.									
Morrison County									
Elmdale	30	1320CST		0	0		Hail(1.25)		
Mille Lacs County									
5 N Milaca	30	1340CST		0	0		Hail(0.88)		
Morrison County									
3 SW Buckman	30	1340CST		0	0		Thunderstorm Wind (60)		
Numerous trees down. Siding ripped off house. Estimated windspeed.									
Stearns County									
1 E Holdingford	30	1346CST		0	0		Hail(0.75)		
Benton County									
5 NW Rice	30	1355CST		0	0		Hail(1.75)		
Yellow Medicine County									
4 N Canby	30	1355CST		0	0		Thunderstorm Wind (50)		
Numerous 6 inch diameter branches down. Estimated windspeed.									
Stearns County									
2 E Holdingford	30	1356CST		0	0		Hail(1.50)		



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MINNESOTA, Central and South Central

Benton County									
Rice	30	1400CST			0	0			Thunderstorm Wind (52)
			Large branches down. Estimated windspeed.						
Lac Qui Parle County									
13 SW Dawson	30	1400CST			0	0			Thunderstorm Wind (55)
			Numerous trees down. Corn flattened. Estimated windspeed.						
Mille Lacs County									
6 E Page	30	1415CST			0	0			Hail(1.00)
Morrison County									
6 E Royalton	30	1415CST			0	0			Thunderstorm Wind (50)
			Large branches down. Estimated windspeed.						
Kanabec County									
9 W Mora	30	1420CST			0	0			Thunderstorm Wind (50)
			Numerous large branches down. Estimated windspeed.						
Swift County									
1 N Murdock	30	1423CST			0	0			Funnel Cloud
Stearns County									
2 NW St Joseph	30	1429CST			0	0			Hail(0.88)
Benton County									
2 SW Rum River	30	1445CST			0	0			Thunderstorm Wind (50)
			Numerous 6 inch diameter branches down. Estimated windspeed.						
Lac Qui Parle County									
1 NW Dawson	30	1445CST			0	0			Thunderstorm Wind (52)
			Few trees down. Estimated windspeed.						
Mille Lacs County									
5 NW Onamia	30	1445CST			0	0			Funnel Cloud
Kanabec County									
4 N Mora	30	1455CST			0	0			Hail(0.75)
Stearns County									
Rockville	30	1455CST			0	0			Hail(0.88)
Swift County									
Appleton	30	1455CST			0	0			Funnel Cloud
Swift County									
Appleton	30	1455CST			0	0			Thunderstorm Wind (50)
			Large branches down partially blocking street. Estimated windspeed.						
Stearns County									
Pleasant Lake	30	1500CST			0	0			Hail(0.88)
Stearns County									
Waite Park	30	1502CST			0	0			Hail(1.00)
Chippewa County									
12 NW Montevideo	30	1505CST			0	0			Thunderstorm Wind (52)
			Few trees down. Estimated windspeed.						
Morrison County									
1 W Pierz	30	1505CST			0	0			Thunderstorm Wind (52)
			Few trees down. Estimated windspeed.						
Meeker County									
6 N Kingston	30	1512CST			0	0			Funnel Cloud



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MINNESOTA, Central and South Central

Kanabec County

8 E Warman to
8 ENE Woodland

30 1520CST 0 0 Thunderstorm Wind (65)

Roofs partially off outbuildings. Windows blown out. Barn down. Numerous trees down in a five mile wide swath. Estimated windspeed.

Wright County

Monticello

30 1524CST 0 0 Hail(1.00)

Kanabec County

5 N Quamba

30 1525CST 0 0 Thunderstorm Wind (55)

Numerous trees down. Estimated windspeed.

Mille Lacs County

Estes Brook

30 1530CST 0 0 Hail(0.75)

Sherburne County

Elk River

30 1541CST 0 0 Thunderstorm Wind (56)

Estimated windspeed.

Rice County

5 NNW Faribault to
5 N Faribault

30 1546CST 0 0 Thunderstorm Wind (65)

Several semi trucks rolled over on Interstate 35. Roofs torn off, Barn and shed flattened. Silos, trees and power lines down. Tree fell through one house. Downburst was 3 miles long and 1/2 mile wide.

Isanti County

1 SW Cambridge

30 1600CST 0 0 Thunderstorm Wind (52)

Tree toppled. Estimated windspeed.

Renville County

6 N Fairfax

30 1615CST 0 0 Hail(1.00)

Ground white with hail.

Sibley County

6 N Gaylord

30 1655CST 0 0 Funnel Cloud

Sibley County

3 N Henderson

30 1655CST 0 0 Thunderstorm Wind (52)

Few trees felled. Estimated windspeed.

Sibley County

3 SE Gaylord

30 1702CST 0 0 Funnel Cloud

Scott County

Blakeley

30 1703CST 0.2 35 0 0 Tornado (F0)

Silo tops taken off, some trees down.

Sibley County

8 SE Green Isle

30 1705CST 0 0 Thunderstorm Wind (52)

Few trees down. Estimated windspeed

Scott County

Belle Plaine

30 1709CST 0.2 35 0 0 Tornado (F1)

Roofs partially taken off two downtown businesses. Few trees down.

Chisago County

Shafer

30 1715CST 0 0 Thunderstorm Wind (50)

Power poles snapped. Estimated windspeed.



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MINNESOTA, Central and South Central

Scott County

Lydia **30** **1720CST** **0.1** **30** **0** **0** **Tornado (F0)**
Mostly touched down in open field near Hwy 13 and Co. Road 10, though a few trees and power lines were felled.

Washington County

1 W Stillwater **30** **1733CST** **0** **0** **Hail(0.75)**

Scott County

Elko **30** **1745CST** **0** **0** **Thunderstorm Wind (55)**
Few trees and power lines down. Estimated windspeed.

Dakota County

Apple Vly **30** **1755CST** **0** **0** **Thunderstorm Wind (52)**
Measured windspeed.

Freeborn County

1 SW Conger **30** **1755CST** **0** **0** **Hail(1.50)**

Goodhue County

5 SE Cannon Falls **30** **1810CST** **0** **0** **Thunderstorm Wind (52)**
Numerous 8 inch diameter branches down. Estimated windspeed.

WISCONSIN, West

Polk County

Milltown **03** **0450CST** **0** **0** **Thunderstorm Wind (55)**
A few trees felled. Winds estimated.

Barron County

4 W Chetek **08** **1643CST** **0** **0** **Funnel Cloud**

Barron County

2 S Dallas **08** **1655CST** **0** **0** **Funnel Cloud**

Rusk County

Island Lake **08** **1715CST** **0** **0** **Thunderstorm Wind (60)**
Trees and power lines downed. Winds estimated.

Chippewa County

5 NE Bloomer **08** **1720CST** **0** **0** **Funnel Cloud**

Chippewa County

Cornell **08** **1730CST** **0** **0** **Thunderstorm Wind (55)**
Several trees and power lines downed. Roads blocked. Windspeed estimated.

Chippewa County

Boyd **08** **1745CST** **0** **0** **Thunderstorm Wind (55)**
Several trees and power lines down. Some roads blocked. Windspeed estimated.

Polk County

3 N Centuria **09** **1141CST** **0.1** **25** **0** **0** **Tornado (F0)**
Brief Touchdown. No damage.

Polk County

Balsam Lake **09** **1152CST** **0.5** **50** **0** **0** **Tornado (F0)**
Few trees and power lines down along six blocks in Balsam Lake. Pole barn down on the east side of Balsam Lake.

Barron County

3 NE Turtle Lake **09** **1215CST** **0** **0** **Funnel Cloud**
Funnel came very close to ground.



National Weather Service

Storm Data and Unusual Weather Phenomena



July 1999

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, West</u>									
Barron County 3 S Rice Lake	09	1230CST			0	0			Funnel Cloud
Barron County 3 N Cameron	09	1235CST			0	0			Hail(0.75)
Polk County 3 S Eureka Center	13	2300CST			0	0			Hail(0.75)
Polk County Osceola	23	0102CST			0	0			Thunderstorm Wind (55) Estimated Winds, a few trees and powerlines down.
Polk County Osceola Muni Arpt	23	0104CST			0	0			Thunderstorm Wind (56) AWOS measurement.
Polk County Centuria	23	0115CST			0	0			Thunderstorm Wind (52) Shed down. Large limbs and power lines down. Estimated winds.
St. Croix County Deer Park	23	0128CST			0	0			Thunderstorm Wind (60) Estimated winds. Trees and power lines brought down.
St. Croix County Hudson	23	0128CST			0	0			Thunderstorm Wind (60) Estimated winds. Trees and power lines down.
Barron County 3 N Turtle Lake to 3 NW Almena	23	0130CST 0135CST			0	0			Thunderstorm Wind (60) Barn down. Silo down. Numerous trees down along a four mile long path. Estimated windspeed.
Polk County Luck to Clam Falls	23	0135CST			0	0			Thunderstorm Wind (55) Scattered trees down along a 10 mile long swath. Estimated winds.
Barron County 6 NW Rice Lake	23	0145CST			0	0			Hail(0.75)
Polk County Clayton	23	0145CST			0	0			Thunderstorm Wind (55) Estimated winds. Trees felled.
Barron County Barron	23	0150CST			0	0			Thunderstorm Wind (55) Estimated winds. Trees felled.
Barron County 4 S Rice Lake	23	0156CST			0	0			Thunderstorm Wind (55) Estimated winds. Trees toppled.
Barron County 6 E Cameron	23	0206CST			0	0			Thunderstorm Wind (55) Estimated winds. Trees down.
Rusk County Weyerhaeuser	23	0234CST			0	0			Thunderstorm Wind (65) Estimated winds. Powerlines down, numerous trees down.



National Weather Service

Storm Data and Unusual Weather Phenomena



July 1999

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, West

WIZ014>016-023>028 Polk - Barron - Rusk - St. Croix - Pierce - Dunn - Pepin - Chippewa - Eau Claire

23	1000CST				0	0			Excessive Heat
25	2300CST								

A massive upper ridge over the central and eastern U.S. enabled heat to build into Wisconsin, especially on the 25th. Maximum heat indices on the 23rd and 24th were in the middle and upper 90s, but soared well into triple digits on the 25th. A cold frontal passage very late on the 25th put an end to the heat wave. The highest indices noted on the 25th were 116 at Red Wing MN airport (the airport is one mile southeast of Hager City in Pierce County WI), and 110 at both Eau Claire and Rice Lake. Temperatures hit the middle 90s on the 25th; dewpoints were widespread in the upper 70s, and even topped out at 81 in Rice Lake and Red Wing airport.

Rusk County

3 N Ladysmith	25	2056CST			0	0			Thunderstorm Wind (60)
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Estimated winds, large trees toppled.

Barron County

Barronett	25	2125CST			0	0			Thunderstorm Wind (52)
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Estimated winds, few trees down.

Barron County

Cumberland	25	2135CST			0	0			Thunderstorm Wind (60)
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Estimated winds, numerous trees down.

Barron County

4 SE Cumberland	25	2140CST			0	0			Hail(1.00)
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Rusk County

2 E Hawkins	25	2142CST			0	0			Thunderstorm Wind (55)
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Estimated winds, several trees down.

Barron County

Rice Lake	25	2150CST			0	0			Thunderstorm Wind (50)
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Estimated winds, scattered trees down.

Rusk County

9 N Bruce	25	2345CST			0	1			Flash Flood
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At least 6 inches of rain led to flooding of Clear Creek near Hwy 40 and County Road H. Normally 10 feet wide, it swelled to 100 yards wide. County Road H Bridge and nearby approaches washed out. Camper and farm machinery swept away. Basements flooded. Creek also flowed across Hwy 40. One man slightly injured when he drove into washed out bridge approach

WIZ014>016-023>028 Polk - Barron - Rusk - St. Croix - Pierce - Dunn - Pepin - Chippewa - Eau Claire

29	0300CST				0	0			Excessive Heat
30	2000CST								

Less than one week after the first heat wave, west central Wisconsin received even greater heat, especially on the 30th. The morning of the 29th started with lows in the 70s and dewpoints around 70, producing heat indices in the middle and upper 70s. With afternoon highs in the 90s and dewpoints in the 60s, heat indices climbed to the 95 to 105 range. The highest index of 105 occurred at Red Wing MN airport (which is located near Hager City of Pierce County WI). A muggy night ensued, with heat indices remaining from 70 to 75 throughout.

The bulk of the heat hit on the 30th. By 0900 CST, heat indices at both Eau Claire and Red Wing airport had soared into triple digits. High temperatures rose into the upper 90s and dewpoints were at 81 or 82 throughout west central Wisconsin. Rice Lake and Eau Claire both had a maximum heat index of 121, and Red Wing airport hit 122. A cold front moved in on the evening of the 30th, bringing severe thunderstorms and putting an end to the heat wave.



National Weather Service

Storm Data and Unusual Weather Phenomena



July 1999

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, West</u>									
Polk County									
Luck	30	1645CST			0	0			Thunderstorm Wind (52)
			Few trees down. Estimated windspeed.						
St. Croix County									
3 NE Somerset	30	1715CST			0	0			Thunderstorm Wind (52)
			Few trees felled. Estimated windspeed.						
Barron County									
Cumberland	30	1730CST			0	0			Thunderstorm Wind (50)
			Trees and power lines down. Estimated windspeed.						
St. Croix County									
1 N Somerset	30	1733CST			0	0			Thunderstorm Wind (50)
			Tree down. Estimated windspeed.						
St. Croix County									
2 N New Richmond	30	1740CST			0	0			Thunderstorm Wind (50)
			Tree and power lines down. Estimated windspeed.						
Barron County									
Dallas	30	1745CST			0	0			Thunderstorm Wind (55)
			Shed down. Numerous trees and power lines down. Estimated windspeed.						
Barron County									
1 W Cameron	30	1750CST			0	0			Thunderstorm Wind (50)
			Tree down across road. Estimated windspeed.						
St. Croix County									
5 N River Falls	30	1752CST			0	0			Hail(0.75)
Pierce County									
Prescott	30	1805CST			0	0			Thunderstorm Wind (50)
			Tree toppled onto truck. Estimated windspeed.						
Rusk County									
Ladysmith to 2 E Hawkins	30	1810CST 1835CST			0	0			Thunderstorm Wind (65)
			A five mile wide swath of damaging winds tracked for 20 miles through central and eastern Rusk County, downing hundreds of trees, some eighteen inches in diameter. Some trees on houses and garages. Roof partially blown off house in Ladysmith. Shed down 2 N Tony. Two unanchored mobile homes smashed 1 NE Ingram. Part of a tree in Hawkins blown 100 yards. Barn down, hangar and two aircraft destroyed 1 S Hawkins. Some shingles and soffets torn off in Hawkins. Estimated windspeed.						
Pierce County									
5 NW Maiden Rock	30	1825CST			0	0			Thunderstorm Wind (50)
			Large branches felled and blocking road. Estimated windspeed.						
Chippewa County									
10 E New Auburn	30	1832CST			0	0			Thunderstorm Wind (52)
			Few trees down. Estimated windspeed.						
Pepin County									
3 N Pepin to 1 SE Arkansaw	30	1840CST 1845CST			0	0			Thunderstorm Wind (60)
			A 10 mile long swath of damaging winds downed numerous trees. Roof partially off an outbuilding 3 N Pepin. Chimney blown off house and garage pushed off foundation 1 SE Arkansaw. Estimated windspeed.						



National Weather Service

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					Killed	Injured	Property	Crops	

WISCONSIN, West

Chippewa County

9 N Stanley

30 1920CST

Large tree down across road. Estimated windspeed.

0 0

Thunderstorm Wind (55)

Eau Claire County

1 SE Eau Claire

30 1920CST

Several trees down. Estimated windspeed.

0 0

Thunderstorm Wind (52)