



National Weather Service

Storm Data and Unusual Weather Phenomena



June 2004

| 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 |
|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------|
|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------|

IOWA, Northeast

Allamakee County

Northeast Portion

| | | | | | | | | | |
|----|--------------------|--|--|--|---|---|----|----|-------------|
| 08 | 2058CST 2345CST | | | | 0 | 0 | 5K | 8K | Flash Flood |
|----|--------------------|--|--|--|---|---|----|----|-------------|

Flash flooding was caused by 4 inches of rain, which fell in two to three hours. Law enforcement officials reported mudslides and water across Highway 26 near Lansing. In addition, some flooding of basements occurred in Lansing.

Mitchell County

4 SE New Haven to 3 E New Haven

| | | | | | | | | | |
|----|--------------------|--|---|----|---|---|----|-----|--------------|
| 11 | 1617CST 1633CST | | 4 | 60 | 0 | 0 | 1K | 10K | Tornado (F1) |
|----|--------------------|--|---|----|---|---|----|-----|--------------|

Howard County

4 S Riceville to Riceville

| | | | | | | | | | |
|----|--------------------|--|---|----|---|---|------|-----|--------------|
| 11 | 1640CST 1650CST | | 4 | 40 | 0 | 0 | 100K | 20K | Tornado (F0) |
|----|--------------------|--|---|----|---|---|------|-----|--------------|

Howard County

2 N Riceville to 11 N Riceville

| | | | | | | | | | |
|----|--------------------|--|---|-----|---|---|------|-----|--------------|
| 11 | 1656CST 1705CST | | 8 | 150 | 0 | 0 | 190K | 30K | Tornado (F3) |
|----|--------------------|--|---|-----|---|---|------|-----|--------------|

A small but intense supercell thunderstorm produced three tornadoes in northeast Iowa. The first tornado touched down about 4 miles southeast of New Haven (Mitchell County), south of 320th Street and between Walnut and Windfall Avenue. It tracked north, primarily in open fields, and lifted between 350th and 360th Street east of New Haven, or just west of Windfall Avenue. The tornado was rated an F1.

The second tornado touched down just east of the Mitchell-Howard County line, about 4 miles south of Riceville (Howard County), and also moved straight north. It downed a few trees, but primarily crossed open fields until it reached the southeast side of Riceville. It damaged a few sheds and buildings in Riceville, with mainly tin roofing material and siding blown off. The tornado lifted in Riceville and was rated an F0.

The third and most significant tornado formed about 2 miles north of Riceville, again just east of the Mitchell-Howard County line. The tornado tracked north, just east of the county line or Addison Avenue. It grew in strength and at one point was approximately 150 yards wide, hitting several homes and farms (F2 damage). One home lost the roof and all buildings. The tornado was so close to the county line that debris was thrown across Addison Avenue into Mitchell County at times. The dirt and young crops were scoured by the tornado. The tornado crossed into Minnesota just southwest of Le Roy (Mower County), hitting a home directly on the state line. The home, which was built in 1900, and several buildings on the lot, were completely demolished (F3 damage).

Fayette County

South Portion

| | | | | | | | | | |
|----|--------------------|--|--|--|---|---|----|-----|-------------|
| 16 | 0438CST 0630CST | | | | 0 | 0 | 5K | 10K | Flash Flood |
|----|--------------------|--|--|--|---|---|----|-----|-------------|

Howard County

North Portion

| | | | | | | | | | |
|----|--------------------|--|--|--|---|---|------|----|-------------|
| 16 | 1530CST 1830CST | | | | 0 | 0 | 3.5K | 8K | Flash Flood |
|----|--------------------|--|--|--|---|---|------|----|-------------|

Fayette County

South Portion

| | | | | | | | | | |
|----|--------------------|--|--|--|---|---|------|-----|-------------|
| 16 | 1630CST 1830CST | | | | 0 | 0 | 7.5K | 12K | Flash Flood |
|----|--------------------|--|--|--|---|---|------|-----|-------------|

Thunderstorms producing excessive rainfall amounts hit in the early morning, then again late in the day. In both instances, 2 to 4 inches of rain fell in less than two hours, which caused flash flooding. Law enforcement officials reported a foot of water covering some roads.

Howard County

5 N Elma

| | | | | | | | | | |
|----|--------------------|--|--|--|---|---|--|--|--------------|
| 16 | 1253CST 1255CST | | | | 0 | 0 | | | Funnel Cloud |
|----|--------------------|--|--|--|---|---|--|--|--------------|

Howard County

Davis Corners

| | | | | | | | | | |
|----|---------|--|-----|----|---|---|--|--|--------------|
| 16 | 1255CST | | 0.1 | 20 | 0 | 0 | | | Tornado (F0) |
|----|---------|--|-----|----|---|---|--|--|--------------|



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|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------|

IOWA, Northeast

| | | | | | | | | | |
|-------------------------------|----|--------------------|-----|----|---|---|--|--|--------------|
| | | 1257CST | | | | | | | |
| Mitchell County | | | | | | | | | |
| 2 N New Haven to 3 E Osage | 16 | 1347CST 1402CST | 5 | 40 | 0 | 0 | | | Tornado (F1) |
| Howard County | | | | | | | | | |
| Riceville | 16 | 1348CST 1350CST | 0.2 | 20 | 0 | 0 | | | Tornado (F0) |
| Floyd County | | | | | | | | | |
| 2 N Rudd | 16 | 1449CST 1451CST | 0.2 | 20 | 0 | 0 | | | Tornado (F0) |

Law enforcement officials and spotters observed several weak tornadoes touched down briefly, but no damage was reported. One tornado tracked approximately 5 miles across southern Mitchell County, but lifted on the Floyd County line.

Allamakee County

| | | | | | | | | | |
|-----------|----|---------|--|--|---|---|-------|--|------------|
| New Albin | 23 | 1728CST | | | 0 | 0 | 0.75K | | Hail(0.88) |
|-----------|----|---------|--|--|---|---|-------|--|------------|

Law enforcement officials reported nickel size hail.

MINNESOTA, Southeast

Olmsted County

| | | | | | | | | | |
|-----------|----|---------|--|--|---|---|-------|--|------------|
| Rochester | 08 | 2107CST | | | 0 | 0 | 0.80K | | Hail(1.00) |
|-----------|----|---------|--|--|---|---|-------|--|------------|

KTTC-TV in Rochester reported hail the size of quarters.

Fillmore County

| | | | | | | | | | |
|-----------------|----|--------------------|--|--|---|---|----|-----|-------------|
| Central Portion | 08 | 2215CST 2350CST | | | 0 | 0 | 7K | 15K | Flash Flood |
|-----------------|----|--------------------|--|--|---|---|----|-----|-------------|

3 to 6 inches of rain fell in three hours, which caused flash flooding. Law enforcement officials reported water and mudslides over Highway 52 between Fountain and Preston.

Olmsted County

| | | | | | | | | | |
|------------|----|--------------------|--|--|---|---|--|--|-------------|
| Countywide | 09 | 1339CST 1725CST | | | 0 | 0 | | | Flash Flood |
|------------|----|--------------------|--|--|---|---|--|--|-------------|

Fillmore County

| | | | | | | | | | |
|------------|----|--------------------|--|--|---|---|--|--|-------------|
| Countywide | 09 | 1500CST 1710CST | | | 0 | 0 | | | Flash Flood |
|------------|----|--------------------|--|--|---|---|--|--|-------------|

Rainfall amounts of 2 to 4 inches in less than two hours caused flash flooding. Hardest hit was the city of Rochester (Olmsted County), where law enforcement officials reported numerous basements and streets were flooded. Several motorists were stranded in their vehicles due to high water. In fact, water was up to the doors and windshields of some cars. A ten year old boy was rescued from Cascade Creek when he attempted to cross the swollen creek on a surf board.

Mower County

| | | | | | | | | | |
|-------------------------------|----|--------------------|---|-----|---|---|----|-----|--------------|
| 2 SW Le Roy to 4 NW Le Roy | 11 | 1705CST 1713CST | 4 | 150 | 0 | 0 | 3M | 20K | Tornado (F3) |
|-------------------------------|----|--------------------|---|-----|---|---|----|-----|--------------|

Fillmore County

| | | | | | | | | | |
|-----------------|----|--------------------|-----|----|---|---|--|--|--------------|
| 4 SW Spring Vly | 11 | 1730CST 1732CST | 0.2 | 20 | 0 | 0 | | | Tornado (F0) |
|-----------------|----|--------------------|-----|----|---|---|--|--|--------------|

Mower County

| | | | | | | | | | |
|-------------|----|--------------------|-----|----|---|---|--|--|--------------|
| 2 NE Dexter | 11 | 1753CST 1755CST | 0.2 | 20 | 0 | 0 | | | Tornado (F0) |
|-------------|----|--------------------|-----|----|---|---|--|--|--------------|

Mower County

| | | | | | | | | | |
|------------|----|--------------------|-----|----|---|---|--|--|--------------|
| 3 W Le Roy | 11 | 1831CST 1833CST | 0.2 | 20 | 0 | 0 | | | Tornado (F0) |
|------------|----|--------------------|-----|----|---|---|--|--|--------------|

A tornado crossed the Minnesota-Iowa state line just southwest of Le Roy (Mower County) causing considerable damage. One home right on the state line was completely destroyed, but there were no injuries or deaths. The tornado was approximately 150 yards wide at times and apparently reached F3 damage intensity right on the state line around 6:05 p.m. The tornado then started to



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|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------|

MINNESOTA, Southeast

weaken, but did heavy damage to a grain company (Koch Industries)(F2 damage) about 2 miles west of Le Roy and continued north, crossing Highway 56 just before 6:10 p.m. The tornado lifted approximately 4 miles northwest of Le Roy in open fields. There were also brief tornado touch downs (all rated F0) near Dexter (Mower County) and Le Roy, as well as areas along the Mower-Fillmore County line west of Spring Valley (Fillmore County).

| | | | | | | | | | |
|---|----|---------|--|--|---|---|-------|--|--------------------------|
| Dodge County Hayfield | 11 | 1730CST | | | 0 | 0 | | | Hail(0.75) |
| Mower County 1 E Racine | 11 | 1836CST | | | 0 | 0 | | | Thunderstorm Wind (EG52) |
| Fillmore County 1 N Spring Vly | 11 | 1850CST | | | 0 | 0 | 0.50K | | Thunderstorm Wind (EG56) |
| Fillmore County 2 W Chatfield | 11 | 1900CST | | | 0 | 0 | 0.75K | | Thunderstorm Wind (EG56) |
| Olmsted County 5 SE Pleasant Grove | 11 | 1900CST | | | 0 | 0 | 0.75K | | Thunderstorm Wind (EG56) |
| Fillmore County 1 W Lanesboro | 11 | 1905CST | | | 0 | 0 | 1.2K | | Thunderstorm Wind (EG56) |

Spotters and law enforcement officials estimated wind gusts of 60 to 65 mph, which knocked down several trees.

| | | | | | | | | | |
|--|----|--------------------|-----|----|---|---|--|--|--------------|
| Fillmore County 3 NW Harmony | 16 | 1235CST | | | 0 | 0 | | | Funnel Cloud |
| Fillmore County 3 NW Harmony | 16 | 1300CST 1302CST | 0.2 | 20 | 0 | 0 | | | Tornado (F0) |
| Mower County 2 W Grand Meadow | 16 | 1440CST 1442CST | 0.2 | 20 | 0 | 0 | | | Tornado (F0) |
| Houston County 5 NW Houston | 16 | 1710CST | | | 0 | 0 | | | Hail(0.75) |

Law enforcement officials and spotters reported a couple of weak tornadoes touched down briefly, but no damage occurred

| | | | | | | | | | |
|--|----|--------------------|--|--|---|---|----|-----|-------------|
| Fillmore County South Portion | 16 | 1433CST 1830CST | | | 0 | 0 | 7K | 10K | Flash Flood |
|--|----|--------------------|--|--|---|---|----|-----|-------------|

Rainfall amounts of 4 inches in two hours caused flash flooding, with the Hutton Valley area hardest hit. Law enforcement officials reported water over County Highway 108 and 16, which made both roads impassable for a time

| | | | | | | | | | |
|--|----|---------|--|--|---|---|-------|-----|--------------------------|
| Winona County Troy | 23 | 1619CST | | | 0 | 0 | | | Hail(0.75) |
| Fillmore County Preston | 23 | 1638CST | | | 0 | 0 | 0.25K | | Thunderstorm Wind (EG52) |
| Wabasha County Zumbro Falls | 23 | 1638CST | | | 0 | 0 | 0.50K | | Thunderstorm Wind (EG52) |
| Wabasha County 3 S Zumbro Falls | 23 | 1638CST | | | 0 | 0 | 1.5K | 6K | Thunderstorm Wind (EG70) |
| Wabasha County Wabasha | 23 | 1645CST | | | 0 | 0 | 2K | | Thunderstorm Wind (EG52) |
| Wabasha County 2 SE Wabasha | 23 | 1647CST | | | 0 | 0 | 2.5K | | Thunderstorm Wind (EG55) |
| Fillmore County 3 NW Amherst | 23 | 1648CST | | | 0 | 0 | | 10K | Hail(0.88) |



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|---|------|----------------------------|---------------------------|--------------------------|----------------------|---------|---------------------|-------|--------------------------|
| | | | | | Killed | Injured | Property | Crops | |
| <u>WISCONSIN, Southwest</u> | | | | | | | | | |
| Trempealeau County Arcadia | 23 | 1713CST | | | 0 | 0 | 1K | | Thunderstorm Wind (EG52) |
| Trempealeau County Arcadia | 23 | 1715CST | | | 0 | 0 | | | Hail(0.75) |
| Trempealeau County Pleasantville | 23 | 1720CST | | | 0 | 0 | 1.5K | | Hail(1.00) |
| Trempealeau County Whitehall | 23 | 1720CST | | | 0 | 0 | 0.75K | | Thunderstorm Wind (EG53) |
| Jackson County Price | 23 | 1721CST | | | 0 | 0 | | | Hail(0.88) |
| Jackson County Price | 23 | 1721CST | | | 0 | 0 | 1K | | Thunderstorm Wind (EG56) |
| Jackson County 1.5 N Taylor to 4 E Taylor | 23 | 1722CST 1728CST | 5 | 50 | 0 | 0 | 75K | | Tornado (F1) |
| Jackson County 5 W Hixton | 23 | 1723CST | | | 0 | 0 | | | Hail(0.75) |
| Jackson County 3 E Taylor | 23 | 1726CST | | | 0 | 0 | 15K | | Thunderstorm Wind (EG56) |
| Jackson County 4 E Taylor to 8 E Taylor | 23 | 1728CST 1732CST | 4 | 30 | 0 | 0 | 5K | | Tornado (F1) |
| Jackson County 10 E Price | 23 | 1730CST | | | 0 | 0 | | | Hail(0.75) |
| Jackson County 10 E Price | 23 | 1730CST | | | 0 | 0 | 2K | | Thunderstorm Wind (EG55) |
| Vernon County Victory | 23 | 1735CST | | | 0 | 0 | | | Hail(0.75) |
| Monroe County Four Corners | 23 | 1745CST | | | 0 | 0 | | | Thunderstorm Wind (EG52) |
| Monroe County Tomah | 23 | 1745CST | | | 0 | 0 | | | Hail(0.75) |
| Clark County Neillsville | 23 | 1747CST | | | 0 | 0 | | | Hail(0.75) |
| Clark County Neillsville | 23 | 1747CST | | | 0 | 0 | | | Thunderstorm Wind (EG52) |
| Jackson County Shamrock | 23 | 1747CST | | | 0 | 0 | | | Hail(0.75) |
| Jackson County Shamrock | 23 | 1747CST | | | 0 | 0 | | | Thunderstorm Wind (EG52) |
| Clark County Neillsville | 23 | 1749CST | | | 0 | 0 | | | Hail(0.75) |
| Clark County 1 S Neillsville | 23 | 1749CST | | | 0 | 0 | 0.80K | | Thunderstorm Wind (EG53) |
| Clark County Granton | 23 | 1750CST | | | 0 | 0 | | | Hail(0.75) |
| Monroe County Cataract | 23 | 1750CST | | | 0 | 0 | 1.2K | | Thunderstorm Wind (EG56) |



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|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------|

WISCONSIN, Southwest

| | | | | | | | | | |
|---|----|--------------------|-----|----|---|----|-------|----|--------------------------|
| Clark County | | | | | | | | | |
| Granton | 23 | 1753CST | | | 0 | 0 | | | Thunderstorm Wind (MG51) |
| Crawford County | | | | | | | | | |
| Soldiers Grove | 23 | 1758CST | | | 0 | 0 | | | Hail(0.75) |
| Crawford County | | | | | | | | | |
| 2 E Soldiers Grove | 23 | 1758CST | | | 0 | 0 | 1.5K | | Thunderstorm Wind (EG55) |
| Monroe County | | | | | | | | | |
| 7 N Tomah | 23 | 1800CST | | | 0 | 0 | | | Hail(0.75) |
| Monroe County | | | | | | | | | |
| 2.5 NW Warrens to 3 SE Warrens | 23 | 1800CST 1812CST | 4.5 | 50 | 0 | 3 | 75K | | Tornado (F1) |
| Richland County | | | | | | | | | |
| 3 W Bosstown | 23 | 1810CST | | | 0 | 0 | | 5K | Hail(0.88) |
| Juneau County | | | | | | | | | |
| 3 N Mauston | 23 | 1820CST | | | 0 | 0 | | | Funnel Cloud |
| Juneau County | | | | | | | | | |
| 9 E New Lisbon to 11 E New Lisbon | 23 | 1820CST 1823CST | 2 | 40 | 0 | 0 | 7K | | Tornado (F1) |
| Adams County | | | | | | | | | |
| 6 NW White Creek to 4 SE Grand Marsh | 23 | 1823CST 1855CST | 16 | 50 | 0 | 13 | 100K | | Tornado (F1) |
| Juneau County | | | | | | | | | |
| 6 SE Necedah | 23 | 1823CST | | | 0 | 0 | | | Hail(2.00) |
| Monroe County | | | | | | | | | |
| Norwalk | 23 | 1826CST | | | 0 | 0 | 0.75K | | Thunderstorm Wind (EG53) |
| Juneau County | | | | | | | | | |
| 8 NE New Lisbon | 23 | 1831CST | | | 0 | 0 | | 8K | Hail(1.00) |
| Adams County | | | | | | | | | |
| 1 S Adams | 23 | 1833CST | | | 0 | 0 | 0.75K | | Hail(1.75) |
| Adams County | | | | | | | | | |
| 1 NE White Creek | 23 | 1838CST | | | 0 | 0 | | | Thunderstorm Wind (EG52) |
| Adams County | | | | | | | | | |
| 6 S Adams | 23 | 1843CST | | | 0 | 0 | 1K | | Thunderstorm Wind (EG55) |
| Adams County | | | | | | | | | |
| 2 S Brooks | 23 | 1850CST | | | 0 | 5 | 60K | | Thunderstorm Wind (EG56) |

A line of thunderstorms that moved out of Minnesota produced wind damage, hail and several tornadoes. The first tornado touched down about 1.5 miles north of Taylor (Jackson County) around 6:22 p.m. It caused intermittent damage during the first two miles of its path as it moved east southeastward across Highway 95. It then strengthened and stayed on the ground for another 3 miles. Many trees were knocked down, and it also demolished a garage and took the roof off two other structures. The tornado reached F1 strength (estimated 75-85 mph winds) briefly as it moved through the Davis and Taylor Road areas where it demolished a garage approximately 2 miles northeast of Taylor. This tornado appeared to lift approximately 4 miles east of Taylor around 6:28 p.m.

About 3 tenths of a mile to the south of where the first tornado lifted, a second tornado formed. This tornado primarily caused tree damage. Shortly after formation, it reached F1 strength (estimated 80-100 mph winds), clearing out a path about 30 yards wide through a wooded area just north of West Pine Creek Road. This tornado weakened about 5 miles east of Taylor, but caused sporadic F0 damage until it finally lifted around 6:32 p.m. about 8 miles east of Taylor in the East Pine Creek Road area. Total path length of these two tornadoes was nearly 9 miles. They were on the ground for about 10 minutes.

A third tornado quickly developed about 3 miles west of Warrens (Monroe County) near Arctic Road, just west of Interstate 94 around 7:00 p.m. It hit a home along Interstate 94, then crossed the Interstate hitting a semi-truck, before moving into Jellystone Campground just west of Warrens. The tornado and associated strong winds around the storm knocked down hundreds of trees in this area, and damaged several tents, buildings, campers, and cars in Jellystone Campground. One gentleman was seriously injured when a tree fell on him during a rescue attempt. He was in a coma for a period of time, but survived with lasting disabilities. The



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|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------|---------------------------------|-------|--------------------|

WISCONSIN, Southwest

tornado continued just southwest of Warrens and hit a home, blowing the roof off, south of the village along County Road O. It lifted about 2 miles southeast of Warrens around 7:12 p.m. The tornado path was approximately 4.5 miles in total length, with a maximum width of 50 yards. The tornado was rated an F1 on the Fujita Damage Scale. Wind speeds were likely 90 to 112 mph, with most of the damage related to downburst winds around the actual tornado. At least 3 people were hospitalized briefly for injuries, but there no fatalities.

The fourth tornado formed in extreme eastern Juneau County, about 2 miles west of Castle Rock Dam. The tornado moved east-northeast across Castle Rock Lake and into western Adams County. It tracked near or along Edgewood Ave, with extensive tree damage to the Quincy Bluff area, including the lookout ranger tower there. Hundreds of trees were blown down from strong winds rotating around the tornadic thunderstorm, which were in excess of 90 mph at times. The tornado intermittently tracked east to areas just north of Edgewood Drive crossing Highway 13 approximately 5 miles south of Adams/Friendship (Adams County). Downburst winds on the south side of the storm demolished at least 8 mobile homes in Edgewood Estates that were orientated north-south and took the full brunt of the cross wind. This was the same area hit by severe weather in September 2000. Most of the Town of Easton (Adams County) had extensive damage with hundreds of trees down. It continued to move east-southeast before lifting shortly before the Adams-Marquette County line about 3 miles southeast of Grand Marsh around 7:55 pm. A broad area of straight line wind damage was found south of this tornado track with widespread tree damage occurring up to 1 mile south of the track. The tornado path was approximately 17 to 18 miles in length. The tornado was rated an F1 on the Fujita Damage Scale with estimated wind speeds in the 73 to 112 mph range.