ALABAMA, North Central

ALZ006 Madison
03 1600CST 0 0 0 0 Excessive Heat
The afternoon high temperature measured at the Huntsville International Airport was 95 degrees. This reading tied the previous record high temperature last set in 1998.

Talladega County
5 S Talladega
04 1219CST 0 0 5K 0 Hail(1.75)
Golf ball size hail was reported in the Brecon community, just south of Talladega.

St. Clair County
Ragland
04 1301CST 0 0 0 0 Hail(1.00)
Quarter size hail was observed in and around the city of Ragland.

St. Clair County
Ragland
04 1301CST 0 0 3K 0 Thunderstorm Wind (G55)
Several trees had their tops snapped off along SR 144 south of Ragland. A few of the downed trees snapped power lines.

Tallapoosa County
Newsite
04 1314CST 0 0 2K 0 Hail(1.75)

Tallapoosa County
Newsite
04 1314CST 0 0 2K 0 Thunderstorm Wind (G50)

Tallapoosa County
Alexander City
04 1320CST 0 0 0 0 Hail(1.00)
Golf ball size hail was reported and trees were blown down on SR 22 near New Site. Quarter size hail was observed in Alexander City.

Cherokee County
4 S Centre
04 1335CST 0 0 0 0 Hail(0.75)
Penny size hail was reported at the Tennala community about 4 miles south of Centre.

Clay County
13 N Ashland
04 1400CST 0 1 3K 0 Lightning
A seven year old girl was struck by lightning inside the Cheaha State Park grounds. She suffered minor injuries. One home was also struck by lightning near the park and minor damage occurred.

Calhoun County
Anniston
04 1410CST 1420CST 0 0 0 0 Hail(1.00)
Nickel to quarter size hail was reported in Saks and in Oxford. Dime size hail was observed in Weaver.

Tallapoosa County
2 NW Dadeville
04 1415CST 1420CST 0 0 0 0 Hail(0.88)
Nickel size hail was reported at the Horseshoe Bend Military Park and around the Dadeville area.

Etowah County
Gadsden
04 1415CST 0 1 5K 0 Thunderstorm Wind (G55)
Numerous trees were blown down in and around Gadsden. One falling tree caused unspecified injuries to a resident.

Randolph County
Roanoke
04 1450CST 0 0 0 0 Hail(0.75)

Randolph County
Roanoke
04 1450CST 1510CST 0 0 2K 0 Thunderstorm Wind (G50)
Dime size hail fell in Roanoke. One large tree was blown down and temporarily blocked Commerce Street.

Cullman County
Fairview
04 1500CST 1510CST 0 0 0 0 Hail(0.75)
Dime size hail was observed in several locations in Cullman County. These locations include Hollypond, Fairview, and Baileyton. A few trees were also blown down with these storms.

Jackson County
Scottsboro
04 1520CST 0 0 0 0 Hail(1.00)

Jackson County
Scottsboro
04 1520CST 0 0 4K 0 Thunderstorm Wind (G50)
ALABAMA, North Central

Quarter size hail was observed along SR 35 near Scottsboro. Trees and power lines were blown down on Bingham Street and on Center Street.

Barbour County
Clayton
04 1525CST
0 0 8K 0 Thunderstorm Wind (G60)
Trees were knocked down along SR 51 around mile marker 58. Some of the fallen trees landed on automobiles. No injuries were reported.

Lee County
Salem
04 1525CST 1530CST
0 0 0 0 Hail(1.00)
Quarter size hail was reported in and around Salem.

ALZ006 Madison
04 1600CST
0 0 0 0 Excessive Heat
The afternoon high temperature observed at the Huntsville International Airport was 96 degrees. This reading tied the previous record high temperature last set in 1985.

Montgomery County
Montgomery
04 1610CST
0 0 10K 0 Thunderstorm Wind (G50)
Several trees and power lines were blown down in and around the city of Montgomery. Lightning also caused some damage by striking several trees and knocking down power lines. The lightning caused over 5000 customers to lose power temporarily. Some of the falling trees landed on automobiles. No injuries were reported.

Madison County
Huntsville
04 1635CST
0 0 0 0 Hail(0.75)

Madison County
Huntsville
04 1635CST
0 0 2K 0 Thunderstorm Wind (G50)
A few trees were blown down and one blocked the roadway in north Huntsville. Dime size hail was also observed with this storm.

Elmore County
Wetumpka
04 1659CST
0 0 0 0 Hail(0.75)
Dime size hail was reported just west of Wetumpka on SR 14.

Hale County
Greensboro
04 1835CST
0 0 3K 0 Thunderstorm Wind (G55)
Trees were blown down west of Greensboro on CR 21.

Tuscaloosa County
Abernant
04 1930CST
0 0 40K 0 Lightning
A probable lightning strike burst a home into flames. The fire completely destroyed the home near Abernant. No injuries were reported.

Tallapoosa County
Dadeville
05 1538CST 1542CST
0 0 0 0 Hail(0.88)

Tallapoosa County
Dadeville
05 1538CST 1542CST
0 0 3K 0 Thunderstorm Wind (G50)
Nickel size hail was reported in and around Dadeville. Several trees were also blown down during this storm.

Jefferson County
Pinson
06 1415CST
0 0 2K 0 Thunderstorm Wind (G55)
A few trees and power lines were blown down on Jackson Road in Pinson.

Walker County
Jasper
13 1400CST
0 0 8K 0 Thunderstorm Wind (G55)
Numerous trees and signs were blown down in and around Jasper. Many of the trees temporarily blocked roadways.

Madison County
Huntsville
13 1520CST
0 0 8K 0 Thunderstorm Wind (G55)
Numerous trees and power lines were knocked down across the northern parts of Huntsville. Additional trees fell down in Chase.

St. Clair County
Margaret
13 1545CST
0 0 5K 0 Thunderstorm Wind (G50)
Numerous trees were blown down in and around Margaret.
ALABAMA, North Central

Talladega County

Sycamore

18 1617CST

Trees and power lines were blown down in and around the city of Sycamore.

Montgomery County

18 1802CST

An 8-year-old girl, her mother, and another woman were struck by lightning on the east side of Montgomery near the intersection of Vaughn Road and Eastern Blvd. The victims had just left a restaurant according to newspaper reports and were about to get in their car when the lightning strike occurred. Rain was not occurring at the time. The 8-year-old went into cardiac arrest, but EMS people were able to resuscitate her and transport her to the hospital. The 44-year-old mother of the child was knocked unconscious and was also taken to a local hospital. The third person, a 33-year-old woman, was treated for minor injuries.

Montgomery County

18 1805CST

Lightning struck a building in Montgomery that housed four radio stations. Significant electric damage occurred, and the stations were off the air for several hours. No injuries were reported.

Montgomery County

18 1814CST

A woman was apparently struck by lightning in her home on Amesberg Drive while cooking on an electric stove.

Montgomery County

18 1814CST

A woman was struck by lightning while cooking on her electric range top. She sustained minor injuries.

Tallapoosa County

18 1929CST

Trees and power lines were blown down near Camp Hill.

Lamar County

18 1400CST

Several trees were blown down in and around Vernon. Some of the trees landed on buildings causing damage. A few signs were also blown down and one landed on an automobile. A church steeple was knocked off the First United Methodist Church and a pavilion was destroyed. No injuries were reported.

Marshall County

25 1000CST

Lightning struck a home in Kennamer Cove and started a fire on the third floor. The fire was confined to the top of the structure but caused major damage. No injuries were reported.

Marion County

26 0525CST

Lightning was believed to be responsible for a fire in a mobile home in the Shiloh community between Hamilton and Hackleburg of SR 187. Three children were killed and two adults and two other children were injured in the fire. The State Fire Marshall said that preliminary investigation indicated the fire started in the general area of the living room around the television. A burn at the base of the utility box outside the home indicated that lightning could have been involved in starting the fire. Time of the event was estimated.

Etowah County

26 1310CST

Several trees were knocked down on Rocky Ford Road in Hokes Bluff.

Sumter County

27 1388CST

A few trees and power lines were blown down near York. One tree fell across SR 17 temporarily blocking traffic.

Tuscaloosa County

27 1520CST

Several trees and power lines were knocked down on Gainesville Road in the Fosters community.

Jefferson County

27 1603CST

Nickel size hail was reported at the Galleria shopping mall.
ALABAMA, North Central

Jefferson County
Vestavia Hills

Thunderstorm Wind (G50)

A few trees and power lines were blown down on Shades Crest Road.

Shelby County
Chelsea

Thunderstorm Wind (G60)

Large trees and power lines were blown down near the intersection of SR 25 and CR 55.

Clay County
5 W Millerville

Thunderstorm Wind (G55)

Numerous large trees were knocked down along CR 7 west of Millerville.

Shelby County
Countywide

Thunderstorm Wind (G55)

Numerous trees and power lines were blown down across the county. One tree fell on a mobile home in Pell City causing significant damage. Other areas where trees fell include Wattsville, Pinedale, and Riverside.

St. Clair County
Lincoln

Thunderstorm Wind (G55)

A large tree fell on house causing moderate damage. No injuries were reported.

Cleburne County
Hollis Xrds

Thunderstorm Wind (G55)

Several trees and power lines were blown down in Hollis Crossroads on CR 10, in and around Micaville, and in Heflin.

Winston County
Haleyville to Double Spgs

Thunderstorm Wind (G55)

Dime size hail was observed just south of Haleyville and also just northwest of Double Springs.

Morgan County
Decatur

Thunderstorm Wind (G55)

Dime size hail was reported in Massey.

Morgan County
Decatur

Lightning

Two adjacent homes were struck by lightning in Decatur. Fires were ignited in both homes and each sustained damage.

ALABAMA, Southeast

Dale County
Ozark

Thunderstorm Wind

Downed trees in Ozark. Report received from NWSFO Birmingham via the Alabama EMA.

Houston County
3 E Cottonwood

Thunderstorm Wind

Dime size hail reported by the Houston County EMA.

Houston County
Cottonwood

Lightning

A woman was injured when she was struck by lightning. Reported by the Houston County EMA.

Henry County
2 N Headland

Thunderstorm Wind

A few downed power lines reported by the Henry County Sheriff.

Henry County
Newville

Thunderstorm Wind

Some downed power lines reported by Newville Police.

Houston County
Dothan

Thunderstorm Wind

A large tree fell on a vehicle at a trailer park. Some trees were knocked down across the city. Reported by the Houston County Sheriff.
ALABAMA, Southeast

Houston County

2 SE Ashford  
14 1500EST 0 0 15K Thunderstorm Wind
Severely trees and power lines were knocked down. A storage shed was destroyed. A large tree split and fell on a house. Reported by the Houston County EMA.

Houston County

Pansey  
14 1515EST 0 0 Hail(1.75)
Golfball size hail reported by a Dothan TV meteorologist.

Houston County

Pansey  
14 1515EST 0 0 0.50K Thunderstorm Wind
A few downed trees reported by a Dothan TV meteorologist.

Houston County

Dothan  
14 1455EST 0 0 25K Lightning
Lightning sparked a house fire. Reported by the Houston County EMA.

ALABAMA, Southwest

Covington County

Andalusia to River Falls  
05 1405CST 1410CST 0 0 10K Thunderstorm Wind (G50)
A few trees and power lines were blown down by high winds from a thunderstorm between Andalusia and River Falls.

Conecuh County

6 NE Castleberry  
14 1310CST 1312CST 0 0 8K Thunderstorm Wind (G50)
Trees were blown down by high winds from a thunderstorm near Nymph.

Clarke County

Bashi  
19 1345CST 1347CST 0 0 Hail(0.88)

Covington County

Andalusia  
19 1405CST 1408CST 0 0 8K Thunderstorm Wind (G50)
Trees were blown down just south of Andalusia by high winds from a thunderstorm. Dime size hail was also reported. Nickel size hail was reported from the same storm near Carolina a few minutes later.

Conecuh County

Paul  
19 1410CST 1412CST 0 0 Hail(0.88)

Washington County

Chatom  
19 1500CST 1502CST 0 0 Hail(0.88)

Baldwin County

Ft Morgan  
28 0945CST 0 0 Rip Currents
A male vacationing with his family drowned in rough surf near Fort Morgan. The man was swimming in the rough water and disappeared. Paramedics were able to get him ashore but the man died.

Crenshaw County

5 S Highland Home  
28 1510CST 1512CST 0 0 Hail(1.00)

Mobile County

(Mob)Mobile Bates Fl  
30 1630CST 0 0 85K Lightning
The Mobile National Weather Service office suffered a lightning strike that knocked out several pieces of electronic equipment. All of the phone lines were temporarily knocked off. The radar also suffered damage and was off for a couple of days.
ALASKA, Northern

Middle Tanana Valley
Two Rivers 01 0000AST 0 0 20K 10 1600AST Wild/Forest Fire

Event continued from May. A human-caused wildfire near Chena Hot Springs Road burned 4 cabins (estimated $5,000 a piece) and threatened to consume Angel Creek Lodge (at 50 mile Chena Hot Springs Road). The fire closed Chena Hot Springs Road from the 25th through the 3rd of June, effectively closing Chena Hot Springs Resort to tourism during the time. Reported loss to the Resort was estimated at $50,000, and would have been much greater had not the Resort been used as a fire-fighting staging area by fire agencies.

ALASKA, Southeast

NONE REPORTED.

ALASKA, Southern

Kuskokwim Valley
15 SW McGrath to 15 NE McGrath 01 0000AST 0 0 Wild/Forest Fire

The man-caused fire, dubbed the Hohalitna fire, which began May 22 had burned over 150,000 acres by the end of June. In total, the fire cost $3 million to fight.

Bristol Bay
60 NE Pilot Point to 15 NE Pilot Point 25 1300AST 0 0 Funnel Cloud

Funnel clouds were reported by a Fish and Wildlife pilot 6 miles northwest of Blue Mountain. Additionally, waterspout reports were received by the King Salmon Weather Service Office by mariners in Bristol Bay. National Weather Service radar at King Salmon confirmed an area of strong storms in the area where the funnel clouds were reported.

AMERICAN SAMOA

Tutuila
Countywide 18 0600SST 0 0 Rip Currents

High surf returned to south shores of American Samoa from the 18 th to the 28th of June. These higher than normal surf were caused by a heavy southerly swell generated by a slow moving low perssure area which persisted far south of Samoa along 45 Degree. South longitude and a stationary ridge of high pressure which persisted along 30 south for more than a week. The high surf created strong rip currents especially during high tides at beaches from Nuuuli to Tula.

ARIZONA, Central and Northeast

AZZ015 Western Mogollon Rim

The drought continued through June with no precipitation falling in Flagstaff. The normal precipitation for June is 0.43 inches. Since January first, only 1.22 inches of precipitation fell (12% of normal) which is 8.66 inches below the average of 9.88 inches. Since September 1st, 4.71 inches of precipitation fell (27% of normal) which is 12.91 inches below the normal of 17.62 inches. This is the driest September to June in recorded history. Stage III water restrictions for Flagstaff were in place. This prohibited washing cars and watering lawns between 8AM and 4PM and only every other day. The only surface water supply for Flagstaff, Lake Mary, was so low that it was only to be used in an event of an emergency.

Navajo County Cibecue to Linden 18 1615MST 0 0 Wild/Forest Fire
30 2359MST

The Rodeo fire was human caused 10 miles northeast of Cibecue on the lower slopes of the Mogollon Rim. The Chediski Fire was human caused two days later about 12 miles to the west of the Rodeo Fire. Before merging, the Rodeo Fire burned 199,300 acres
ARIZONA, Central and Northeast

...and the Chediski Fire burned 93,990 acres. The Chediski-Rodeo Complex burned 468,638 acres before it was contained at 600 PM on Saturday July 6th. The fire also burned 426 structures and homes. Over 30,000 people were evacuated from Show Low, Summer Pines, Pinetop-Lakeside, Linden, Pinedale, Clay Springs, McNary, Hon-Dah, Forestdale, Heber, Overgaard, Forest Lakes, and Aripine during the peak of the fire. Four Type I Incident Command Teams were assigned to the fire with close to 4,500 fire fighting personnel. Resources assigned to the Rodeo-Chediski Fire included 18 Type I Hot Shot crews and 77 Type II crews, 30 helicopters, 245 engines, 90 bull dozers, 92 water tenders, and 11 air tankers. During the fire, all roads in the area were closed to the public including: State Road 260, US 60, Highway 377 and Highway 277. Flame lengths were observed in the 200 to 300 foot range during some of the major uphill runs.

ARIZONA, Northwest

NONE REPORTED.

ARIZONA, South

Pima County

15 SE Mt Lemmon to Mt Lemmon

The Bullock wildfire started in Bullock Canyon in the Catalina Mountains, part of the Coronado National Forest. The fire started on May 21st and continued through June 10th. It was suspected to be human induced. The fire burned 30,563 acres along with 2 cabins and several outbuildings. The residents of Summerhaven were evacuated on May 25th and Catalina Highway closed on May 22nd. The fire also threatened Mt. Bigelow which had several telecommunication towers and 2 telescopes. However, fire fighters were able to contain the fire a half of a mile away. The entire fire fighting costs was estimated to be 11.5 million dollars.

ARIZONA, Southwest

NONE REPORTED.

ARKANSAS, Central and North Central

Boone County

Harrison
Heavy rainfall occurred over parts of Boone County and resulted in flash flooding in and around the Harrison area. Up to 3 inches of rain fell in Harrison in about 2 hours, with reports of as much as 5 to 6 inches of rain in the Batavia area. Highway 392 was covered by high water near Batavia. Bear Creek went out of its banks, about 6 miles northwest of Harrison, and covered two lanes of U.S. Highway 65 at the Bear Creek Springs community. Also at Bear Creek Springs, five people had to be rescued from flooded businesses near the creek. One person who was rescued was taken to the hospital for treatment of a laceration. A nearby campground was also flooded.

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Flash flooding occurred along Bear Creek in Boone County on 06/10/2002, with the creek going out of its banks. Several trees were flattened alongside the creek.
```

Heavy rainfall occurred over parts of Boone County and resulted in flash flooding in and around the Harrison area. Up to 3 inches of rain fell in Harrison in about 2 hours, with reports of as much as 5 to 6 inches of rain in the Batavia area. Highway 392 was covered by high water near Batavia. Bear Creek went out of its banks, about 6 miles northwest of Harrison, and covered two lanes of U.S. Highway 65 at the Bear Creek Springs community. Also at Bear Creek Springs, five people had to be rescued from flooded businesses near the creek. One person who was rescued was taken to the hospital for treatment of a laceration. A nearby campground was also flooded.

```
Thunderstorm winds downed a number of large trees and power lines. A roll-up garage door was blown in on a building and several portable advertising signs were damaged.
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Thunderstorm winds downed a couple of trees.
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Thunderstorm winds downed some trees.
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Thunderstorm winds blew down some trees.
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Thunderstorm winds blew down several trees.
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```
Several trees were knocked down.
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```
Trees down.
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Thunderstorm winds downed some trees and large tree limbs.
```

**Storm Data and Unusual Weather Phenomena**

**ARKANSAS, Central and North Central**

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<th>Location</th>
<th>Date</th>
<th>Time/Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
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</table>
ARKANSAS, Central and North Central

Hot Spring County
Lono 13 1745 CST 0 0 Thunderstorm Wind (G50)
Thunderstorm winds downed some trees and power lines.

Stone County
Timbo 16 1930 CST 0 0 Hail (0.75)

Monroe County
Clarendon 23 1700 CST 0 0 Thunderstorm Wind (G50)
Thunderstorm winds blew the roof off a temporary building located at the local high school.

Polk County
3 W Ink 24 1600 CST 0 0 Thunderstorm Wind (G52)
Thunderstorm winds knocked down numerous large tree limbs and blew items off several porches of area homes.

Grant County
Pratts ville 24 1610 CST 0 0 Hail (0.75)

Clark County
Alpine 24 1815 CST 0 0 Thunderstorm Wind (G52)
Thunderstorm winds downed a large tree at Alpine.

Prairie County
Stuttgart Muni Arpt 25 1432 CST 0 0 Thunderstorm Wind (G57)
Thunderstorm winds gusted to 66 mph at the Stuttgart Airport.

ARKANSAS, East

Randolph County
Minor ca 05 0933 CST 0 0 5K Thunderstorm Wind
A few trees were knocked down.

Clay County
Success 05 1010 CST 0 0 5K Thunderstorm Wind
Some trees were blown down.

Crittenden County
West Memphis 05 1050 CST 0 0 10K Thunderstorm Wind
Some trees and power lines were blown down.

Mississippi County
Yarbro 05 1115 CST 0 0 10K Thunderstorm Wind
An automobile repair shop had several garage doors blown in. A small metal building was blown down. Some fencing was also blown down.

Poinsett County
1 SW Tyronza to 1 SE Tyronza 05 1910 CST 3 25 0 0 5K Tornado (F0)
The tornado touched down near Tyronza and moved slowly east. Several power poles were knocked down.

Crittenden County
Edmondson 13 1645 CST 0 0 1K Flash Flood
Several streets were flooded.

Greene County
Delaplaine 24 2000 CST 0 0 1K Thunderstorm Wind
One building was damaged.
### ARKANSAS, East

**Randolph County**  
**Maynard**  
24 2010CST  
2015CST  
0 0 5K  
Thunderstorm Wind  
A few trees were blown down.

### ARKANSAS, Northwest

**Benton County**  
**Highfill**  
12 1130CST  
0 0 5K  
Thunderstorm Wind (G61)  
Thunderstorm winds estimated at 70 miles an hour did significant damage to a storage building and minor damage to two poultry houses. A power pole and power line were also blown down.

**Benton County**  
**Rogers**  
12 1200CST  
0 0 25K  
Thunderstorm Wind (G61)  
Thunderstorm winds estimated at 70 miles an hour produced a ten block wide swath of damage from downtown Rogers to two miles north to Highway 102. Most of the damage was trees and power lines blown down and trees falling on buildings and cars.

**Washington County**  
**Fayetteville**  
12 1200CST  
0 0 50K  
Thunderstorm Wind (G61)  
Thunderstorm winds estimated at 70 miles an hour downed trees and power lines. The wind also damaged the roof of an apartment building. Twelve residents of the apartment building were displaced as water poured through the damaged roof and through their ceilings.

### ARKANSAS, Southeast

NONE REPORTED.

### ARKANSAS, Southwest

NONE REPORTED.

### ATLANTIC OCEAN

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<th>Location</th>
<th>Date/Time</th>
<th>Path Length</th>
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A wind gust of 42 MPH was recorded.

A wind gust of 42 MPH was recorded.

A 34 knot wind gust was recorded.
### Storm Data and Unusual Weather Phenomena

#### June 2002

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<tr>
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<th>Time</th>
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<th>Path Width (Yards)</th>
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</table>

A thunderstorm produced a wind gust to 39 knots (45 mph) at Barnegat Inlet.

A wind gust of 46 MPH was measured.

A wind gust of 40 MPH was recorded at Bishop's Head.

A boat was flipped by thunderstorm winds in Barnegat Bay near Forked River.

Thunderstorms that moved across lower Delaware Bay and adjacent parts of the Atlantic Ocean produced wind gusts of between 35 and 40 knots. At the Cape May Ferry Terminal, a peak wind gust of 35 knots (40 mph) was measured and at Cape May Harbor a peak wind gust of 38 knots (44 mph) was measured.

Wind gust to 44 knots measured at MFV.
As a line of thunderstorms swept east at 30 knots, it produced a wind gust to 35 knots at the NOS Sandy Hook Tide Gage and a gust to 40 knots at Buoy ALSN6 (Ambrose Light Tower).

As strong thunderstorms moved east at 30 knots, they produced a peak wind gust of 36 knots at the NOS Sandy Hook Tide Gage. Additionally, the NWS ASOS Systems at Newark NJ measured a peak wind gust of 30 knots at 3:43 pm EDT and at John F. Kennedy Airport measured a peak wind gust of 33 knots at 4:18 pm EDT.

A thunderstorm produced wind gusts to 36 knots (41 mph) in Lewes.

Winds strong enough to down trees and power lines moved off the Stafford County shoreline onto the Potomac River.

A wind gust of 33 knots was recorded.

A wind gust of 34 knots was recorded.

A wind gust of 38 knots was recorded at Cambridge.

A wind gust of 33 knots was recorded.

A wind gust of 33 knots was recorded.

A wind gust of 33 knots was recorded.

A wind gust of 33 knots was recorded.

A wind gust of 40 knots was recorded at Cambridge.

As a line of thunderstorms swept east at 30 knots, it produced a wind gust to 35 knots at the NOS Sandy Hook Tide Gage and a gust to 40 knots at Buoy ALSN6 (Ambrose Light Tower).
ATLANTIC OCEAN

ANZ633 Currituck Sound
Currituck 28 1300EST 0 0 Marine Tstm Wind (G36)
Wind gust of 36 knots measured at ECG.

ANZ658 Ne-Va Bdr To Currituck Beach Lt Out 20Nm
Ne-Va Border to Currituck Beach Light 28 1400EST 0 0 Marine Tstm Wind (G38)
Wind gust of 38 knots measured at Duck, North Carolina.

ANZ254 Provincetown Ma To Chatham Ma To Nantucket Ma Out 20Nm
Chatham Light 28 1445EST 0 0 Marine Tstm Wind (G40)

ANZ335 Long Island Sound W Of New Haven Ct To Port Jefferson Ny
Eatons Neck 28 1935EST 0 0 Marine Tstm Wind (G67)
As a severe thunderstorm moved southeast, it produced a peak wind gust of 67 knots, measured at the Eatons Neck U.S.C.G. Station.

CALIFORNIA, Extreme Southeast

NONE REPORTED.

CALIFORNIA, North Central

NONE REPORTED.

CALIFORNIA, Northeast

NONE REPORTED.

CALIFORNIA, Northwest

NONE REPORTED.

CALIFORNIA, South Central

Kern County
12 NE Bakersfield 02 1800PST 0 0 110K Wild/Forest Fire
The Rocky Fire originated from unknown causes and burned 498 acres. No structures were lost nor were there any fatalities or injuries.

CAZ095-098>099 Kern Cty Mtts - Indian Wells Vly - Se Kern Cty Desert
07 1813PST 0 0 Wind
Gusty northwest wind in the Kern County Mountains and Deserts plagued the area late on the 7th and much of the 8th. In the Kern Mountains Jawbone RAWS reached 38 MPH and Tehachapi sustaining 41 MPH. In the Kern Desert areas Indian Wells Canyon gusted to 55 MPH and Government Peak had sustained wind at 35 MPH.

CAZ089-091 W Central S.J. Valley - Sw S.J. Valley
08 0750PST 0 0 Wind
While wind was gusty in the Kern Mountains and Deserts, higher than normal wind speeds caused concerns in the Central and Southern San Joaquin Valley. Northwest wind gusted to 38 MPH at Lemoore on the morning of the 8th and reached 42 MPH later in
the day along the west side of the Valley in Fresno County. On the east side of the Valley, wind did not quite reach wind advisory levels although speeds to 32 MPH were noted at Merced, 30 MPH at Madera, and 26 MPH at both Fresno and Hanford.

Another day of strong onshore pressure gradients brought gusty wind to the west side of the Central and Southern San Joaquin Valley. Wind gusts to 35 MPH were noted near the San Luis Reservoir in Merced County with gusts to 43 MPH at Kettleman Hills in West Kings County. Sustained wind of 30 MPH and gusts to 36 MPH occurred at Navy Lemoore on the morning of the 9th.

The WK Hill/33 Fire originated from unknown causes and burned 400 acres near the intersection of Highway 33 and 198 in West Fresno County. No structures were lost nor were there any fatalities or injuries.

The Borel Fire originated from unknown causes and burned 3430 acres. There were 7 primary residences and 12 out-buildings lost in this fire. There were no reported fatalities or injuries.

NONE REPORTED.

A wild fire that began from a spark that came from a firefighting training class on the Arrowhead Springs Resort, burned for 6 days before it was brought under control. Three fire fighters were injured, three storage buildings were destroyed, the main hotel building's suffered smoke damage, and 2500 acres were burned. The cost of fighting the fire was placed at $4 million.

Wind spread flames from a house fire to surrounding brush and consumed a telephone pole.

The "Bee" fire burned 430 acres.

A fast moving brush fire in Mission Trails Regional park, consumed 65 acres before it was brought under control.

Traffic backed up on Interstate 15 during the evening commute when a brush fire started on the roadside. About one and a half acres were consumed.

An over heated van, started a brush fire that consumed 10 acres and threatened several houses.

A large swell knocked a solo fisherman overboard, about 1 mile offshore of Pacific Beach. His 18 foot power boat suffered some
damage to the center console, but remained afloat and traveled in large circles around him. He was rescued 90 minutes later, suffering from exhaustion and hypothermia.

San Bernardino County
2 NE Devore to .5 W Summit
16 1325PST
22 1700PST
0 3 1M Wild/Forest Fire

Named the "Blue Cut Fire", it was started by arsonist and rapidly consumed 6864 acres in a six day period due to hot dry windy conditions. Interstate 15 and Highway 138 were closed as 3 miles of highway signs and infrastructure burned and visibility dropped to less than 1/4 mile in smoke. Cost of fighting the fire was $4.4 million. Dense acrid smoke from the fire also filled the Apple Valley area prompting Air Quality Advisories to be issued. Residents of Oak Hills and Summit Valley were forced to evacuate. One structure was lost. Three fire fighters suffered first and second degree burns and smoke inhalation. They had to deploy emergency fire shelters after a 25 foot wall of flames suddenly shifted towards them and engulfed their fire engine.

Gusty afternoon winds and 120 degree temperatures helped fuel a brush fire that consumed a house, several vehicles, and numerous trees. Four fire fighters were treated for heat exhaustion, another suffered a minor injury.

San Bernardino County
1.5 E Morongo Vly
17 1500PST
1900PST
0 0 150K Wild/Forest Fire

A vacant cabin and several acres of brush were consumed.

San Diego County
3 S Imperial Beach
17 1800PST
18 2100PST
0 0 Wild/Forest Fire

Sixty acres were consumed in a slow moving fire in the Tijuana River Valley.

Riverside County
7 NE Banning to 13 NE Banning
18 1200PST
20 0700PST
0 2 Wild/Forest Fire

A brush fire consumed 565 acres of uninhabited land on the Morongo Indian Reservation before being fully contained. Two fire fighters suffered minor injuries. In all, 575 personnel were used to control the blaze.

San Diego County
Pala
18 1300PST
1415PST
0 0 Wild/Forest Fire

Fifteen acres burned on the Pechanga Indian Reservation. No structures were burned.

San Diego County
Alpine
18 1300PST
1320PST
0 0 Wild/Forest Fire

Two acres were burned on the Barona Indian Reservation. No injuries occurred and no structures were burned.

San Diego County
3.5 E Spring Vly
18 1545PST
1700PST
0 0 Wild/Forest Fire

Four acres were consumed in a brush fire before firefighters were able to control it.

San Diego County
2 S Mt Laguna Afs to 11 E Mt Laguna Afs
19 1030PST
22 0600PST
0 5 300K Wild/Forest Fire

Named the "Troy" fire, it began just east of Mt. Laguna in the Cuyapaip Indian Reservation and burned to the northeast into the Anza-Borrego Desert. Three unoccupied cabins and 1188 acres burned. The cost to fight the fire was $1.5 million.

San Bernardino County
1 NW Devore to 3 NW Devore
24 1515PST
1735PST
0 0 Wild/Forest Fire

Another brush fire along Interstate 15 on the south side of the Cajon Pass, rapidly burned into the area previously consumed by the Blue Cut fire, which ended two days earlier. Dense smoke again filled the Cajon Pass and drifted over the Apple Valley. Interstate 15 was closed for a few hours.

San Diego County
2 E Boulevard to 1 N Boulevard
24 1601PST
25 0600PST
0 0 Wild/Forest Fire

Named the "Manzanita" Fire, it began along Interstate 8 and burned eastward into the Manzanita Indian Reservation. The freeway was closed for several hours due to dense smoke. Evacuations were ordered for thirty residences. As of 6 a.m. PST, June 25, 130 acres had burned and the fire was only 20% contained.
San Bernardino County

Crestline 24 1615PST 1900PST 0 0 80K Wild/Forest Fire
The fire began from a malfunction of a power line running through a steep canyon. About 150 firefighters, responding from all the surrounding communities, and assisted by air tankers and helicopters, were able to contain the blaze to 10 acres. Eight power lines were scorched, but power was not disrupted.

San Bernardino County

2 W Crestline to 5 N Crestline 24 0700PST 1625PST 0 0 Wild/Forest Fire
A 10 acre brush fire threatened the town Crestline, forcing the closures of Highways 18 and 138. Dense Smoke from the fire drifted over Hesperia, Apple Valley, and Victorville and lowered the visibility to 1/2 mile. Evacuations were also ordered for Crestline, but no structures were damaged.

Riverside County

White Water 25 1733PST 1700PST 0 0 Wild/Forest Fire
Brush fire in center divide of Interstate 10, dense smoke affecting traffic.

Riverside County

3 NE Moreno Valley 25 1759PST 1700PST 0 0 Wild/Forest Fire
Brush fire starting near intersection of Ironwood Avenue and Redlands Boulevard.

San Bernardino County

Cajon to 5 SE Wrightwood 26 1515PST 29 1700PST 0 1 2M Wild/Forest Fire
Named the Louisiana fire, it began from a burning car in the Cajon Pass near Pitman Canyon. Fanned by 20 mph winds, it grew to more than 200 acres in two hours and destroyed three residences and three outbuildings. Before the first day was over, 1,300 acres had burned. Eventually 6,532 acres would be burned, along with numerous infrastructure supporting utilities and highway transportation before it was fully contained three days later. Smoke, flames, and heat from the fire halted ground and air transportation across the San Bernardino Mountains and between the High Desert and the Inland Empire of San Bernardino County for two days. Between 50 to 70 trains and 13,000 trucks move through the Cajon Pass on a daily basis. This blockage affected shipping in and out of Long Beach Harbor, a major West Coast shipping port. In addition to burning 57 power poles, heat from the fire forced the shutting down of all power transmission lines and a natural gas line across the mountains. These outages in turn affected about 500,000 customers in communities far removed from the incident site. Initially 40 homes were evacuated the first day in the Swarthout Canyon area. A flare up on the second day forced an evacuation of 100 homes in the Mormon Rocks area. Smoke blown over the Victor Valley caused air quality to dip below healthful levels at times. In addition to the property damage, an additional $3 million was spent fighting the fire.

San Bernardino County

Arrowhead Spgs 26 1930PST 27 1700PST 0 0 Wild/Forest Fire
This fire flared up within the boundary of the 2500 acre Arrowhead Fire that occurred during the early part of June 2002. It occurred on unburned acreage and remained fully contained within the established fire corridor.

San Diego County

Poway 28 1322PST 1700PST 0 1 Wild/Forest Fire
A brush fire burned 9 acres in rugged terrain near a developed neighborhood, before being brought under control.

San Diego County

4 N Lakeside to 5 N Lakeside 30 1414PST 2359PST 0 0 Wild/Forest Fire
A brush fire broke out along Wildcat Canyon and Old Barona roads, forcing their closure and the evacuation of most of the customers of the Barona Casino.

Riverside County

3 N Palm Spgs 30 1430PST 1630PST 0 0 20K Wild/Forest Fire
A vehicle fire was spread by winds into a 10 acre brush fire.

Riverside County

Norco 30 1900PST 2359PST 0 0 Wild/Forest Fire
A brush fire in dense vegetation along the Santa Ana River Bottom burned 35 acres before being brought under control.
### Storm Data and Unusual Weather Phenomena

**June 2002**

**CALIFORNIA, Upper**

**CAZ083>085**

North Central & Southeast Siskiyou County - Northeast Siskiyou And Northwest Modoc Counties - Modoc County

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<td>08</td>
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See below.

A Frost Warning was issued for the above zones at the above times. Reported low temperatures ranged from 27 to 34, so it is likely that the warning verified. No frost was reported however.

Reported lows in CAZ081/082 ranged from 31 to 36, so the warning likely should have been extended to these zones as well. The inclusion of CAZ083 was an error, frost warnings are not issued for that zone.

**CAZ083>085**

North Central & Southeast Siskiyou County - Northeast Siskiyou And Northwest Modoc Counties - Modoc County

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See below.

A Frost Warning was issued for the above zones at the above times. Reported lows ranged from 31 to 32, so it is likely that the warning verified. No frost was reported, however.

Reported lows in zones CAZ081/082 ranged from 30 to 38, so a warning likely should have been issued for these zones as well. The inclusion of CAZ083 was an error, frost warnings are not issued for that zone.

**CALIFORNIA, West South Central**

**Ventura County**

10 N Ojai

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Los Angeles County

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The Copper Fire burned 23,407 acres in the Angeles National Forest. The fire, which was ignited by a grinding tool, destroyed 26 structures.

Santa Barbara County

(Vbg)Vandenberg Afb

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<tr>
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<tr>
<td>20</td>
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<td>Wild/Forest Fire</td>
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The Sudden Fire burned 7,782 acres on land owned by Vandenberg Air Force Base.

**CALIFORNIA, Western**

NONE REPORTED.

**CARIBBEAN SEA AND TROPICAL ATLANTIC**

**AMZ651**

3 SE Government Cut

Deerfield Beach To Ocean Reef Fl

<table>
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<tr>
<th>Date</th>
<th>Time</th>
<th>Character of Storm</th>
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<tbody>
<tr>
<td>08</td>
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The Crandon Park Beach Patrol sighted a waterspout 2 miles east of Key Biscayne.

**AMZ650**

40 ESE Jupiter Inlet

Jupiter Inlet To Deerfield Beach Fl Out 20Nm

<table>
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<tr>
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A pilot sighted a waterspout in the Atlantic 40 miles east of Palm Beach.

**AMZ670**

20 S Jupiter Inlet

Jupiter Inlet To Deerfield Beach Fl 20 To 60Nm

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<tr>
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A SKYWARN spotter sighted a waterspout on the Intracoastal Waterway near 10th Street in Lake Worth.

**AMZ158**

Atlantic Beach

Cp Lookout To Surf City Nc Out 20Nm

<table>
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<tr>
<td>14</td>
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**AMZ555**

Patrick Afb

Cocoa Beach To Jupiter Inlet Fl Out 20Nm

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<tbody>
<tr>
<td>16</td>
<td>1455EST</td>
<td>Marine Tstm Wind (G34)</td>
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</table>
CARIBBEAN SEA AND TROPICAL ATLANTIC

A thunderstorm produced a wind gust to 34 knots at Patrick AFB.

AMZ254  
**Surfside Beach**  
Little R Inlet Nc To Murrells Inlet Sc Out 20Nm  
20 Knots  
0 0  
Waterspout

Public reported a waterspout 200-300 yards off the coast from Surfside Beach.

AMZ254  
**Surfside Beach**  
Little R Inlet Nc To Murrells Inlet Sc Out 20Nm  
20 Knots  
0 0  
Waterspout

Television media reported a waterspout off the coast of Surfside Beach.

AMZ555  
18 N Patrick Afb  
Cocoa Beach To Jupiter Inlet Fl Out 20Nm  
22 Knots  
0 0 0 0  
Marine Tstm Wind (G34)

A wind gust to 34 knots was recorded at a NASA weather tower.

AMZ550  
**Daytona Beach**  
Flagler Beach To Cocoa Beach Fl Out 20Nm  
23 Knots  
0 0 0 0  
Waterspout

A large waterspout was reported by the Volusia County Beach Patrol, moving north about one mile from shore.

AMZ651  
**2 S Port Everglades**  
Deerfield Beach To Ocean Reef Fl  
25 Knots  
0 0  
Waterspout

Tower personnel at Hollywood-Fort Lauderdale airport sighted a waterspout in the Atlantic just offshore Hallandale Beach.

AMZ651  
**22 ESE Port Everglades**  
Deerfield Beach To Ocean Reef Fl  
25 Knots  
0 0  
Waterspout

A pilot reported a waterspout in the Atlantic.

AMZ670  
**5 S Jupiter Inlet**  
Jupiter Inlet To Deerfield Beach Fl 20 To 60Nm  
29 Knots  
0 0  
Waterspout

A pilot reported a waterspout in the Atlantic.

AMZ454  
**5 NE Crescent Beach**  
St Augustine To Flagler Beach Fl Out 20Nm  
30 Knots  
0 0  
Waterspout

Reported east of Matanzas Ave Ramp.

AMZ555  
**Melbourne Beach**  
Cocoa Beach To Jupiter Inlet Fl Out 20Nm  
30 Knots  
0 0 0 0  
Waterspout

A waterspout was sighted near shore in Melbourne Beach.

COLORADO, Central and Northeast

Logan County  
**Sterling**  
01 Knots  
1500MST  
0 0  
Lightning

Morgan County  
**Brush**  
01 Knots  
1500MST  
0 0  
Lightning

Washington County  
**Akron**  
01 Knots  
1500MST  
0 0  
Lightning

Weld County  
**New Raymer**  
01 Knots  
1500MST  
0 0  
Lightning

Scattered high based thunderstorms, producing frequent lightning but very little rain, ignited dozens of grass fires across eastern Weld, Logan, Morgan and Washington Counties. Outflow winds, coupled with an already strong surface pressure gradient and extreme drought conditions, allowed the fires to quickly scorch over 12,000 acres of farmland. Strong winds also snapped some power poles in Washington County, blew out windows and damaged some roofs. The Akron Airport measured a peak wind gust to 64 mph (56 kts) while Wiggins recorded a wind gust to 63 mph (55 kts). Wind gusts elsewhere generally range from 40 to 50 mph.

Elbert County  
**3 NW Elbert**  
01 Knots  
1535MST  
0 0  
Dry Microburst
## Storm Data and Unusual Weather Phenomena

June 2002

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
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**COLORADO, Central and Northeast**

<table>
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<tr>
<th>Location</th>
<th>Time</th>
<th>Character of Storm</th>
</tr>
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Hot temperatures, low relative humidities and strong gusty winds allowed the Hayman wildfire, located in the foothills southwest of Denver, to blossom into the largest wildfire in the state's history. Although the fire was initially started by a forest service employee, the ongoing drought conditions allowed it to spread rapidly out of control. The wildfire consumed a total of 137,760 acres of forest land, approximately 95,000 acres was burned in Park, Jefferson and Douglas Counties. Approximately 1800 households had to be evacuated during the blaze. A total of 600 structures (including those in Teller County) were destroyed: 133 residences, 1 commercial building and 466 outbuildings. The cost of fighting the fire alone was nearly $40 million.

The smoke plume caused air quality problems downwind of the fire. Smoke and ash restricted the visibility to a mile or less at times in the Denver and Castle Rock areas. The temperature in Denver equalled or exceeded 90 degrees for 13 consecutive days (06/21-07/03), tied for the fifth longest such streak on record. The record of 18 consecutive days was set during the summer of 1901.

A trained weather spotter measured a wind gusts to 63 mph (55 kts).
**Storm Data and Unusual Weather Phenomena**

**June 2002**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/ Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
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COLORADO, East Central

**Drought**

Moderate to severe drought conditions persisted through the month of June across extreme east central Colorado. Although local areas received beneficial moisture, most areas continued with below normal rainfall. The combination of much above normal temperatures and below normal precipitation resulted in below average crop yields and poor summer crop development.

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The strong thunderstorm winds combined with one inch diameter hail to break house and car windows.
### Storm Data and Unusual Weather Phenomena

**COLORADO, East Central**

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Large hail stones broke four car windshields.
The Iron Mountain fire started in the early afternoon of June 2nd when a barbecue grill was overturned by high winds. The fire quickly spread, and consumed nearly 4,500 acres of pinon, juniper grass, Ponderosa pine and Gambel oak. Eighty eight mostly manufactured homes were destroyed, along with around 100 outbuildings. Many of the houses and outbuildings were uninsured. It cost nearly 1 1/2 million dollars to fight the fire.

Lightning started fires burned around 25,000 acres of land and trees south of Trinidad. One fire, the James John, burned around 5,000 acres southeast of Trinidad and east of Interstate 25, while the larger fire, the Spring, which began in New Mexico, scorched around 20,000 acres. The fires burned pinyon juniper, fir, ponderosa pine, aspen, and grass. Eight structures were lost. The James John Fire was around 9 miles southeast of Trinidad. It cost around 3 million dollars to fight the fires.

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COLORADO, South Central and Southeast

Pueblo County
- 9 NW Boone to 3 NW Boone
  - 03 2100MST 2105MST
  - Hail(1.75)

Kiowa County
- 10 N Sheridan Lake
  - 04 0525MST 0530MST
  - Hail(0.75)

Crowley County
- 1 SW Sugar City
  - 08 1730MST 1735MST
  - Dry Microburst

A microburst knocked over several camping trailers at Lake Meredith southwest of Sugar City causing 5 minor injuries.

Teller County
- 8 NNW Florissant to 8 NNW Woodland Park
  - 09 0200MST 2359MST
  - Wild/Forest Fire

The largest wildfire in Colorado this century began on the evening of June 8th in Park county and spreads into Teller county early on the morning of the 9th. The wildfire was not fully contained until July 2nd. The Hayman Fire was allegedly started by a U.S. Forest Service employee. The fire consumed 43,000 acres of forest and meadows in Teller county generally north of a line from around 8 miles north northwest of Florissant to 8 miles north northwest of Woodland Park. Eighty eight residences were destroyed, along with around 200 other structures. The smoke plume caused heavy concentrations of smoke across Teller and El Paso county from time to time during the blaze. Besides the $6 million in damage to structures, $25 million will be spent in the fighting of the fire and rehabilitation of the burn area. Two firefighters sustained minor injuries in the burn area.

El Paso County
- Colorado Spgs
  - 12 1720MST 1725MST
  - Hail(0.75)

El Paso County
- 12 NE Colorado Spgs
  - 12 1910MST 1915MST
  - Hail(1.00)

El Paso County
- 6 W Ellicott
  - 12 1933MST 1938MST
  - Hail(1.50)

Las Animas County
- 11 N Kim
  - 12 2340MST 2345MST
  - Hail(1.75)

Las Animas County
- 3 NW Trinidad to 3 NW Trinchera
  - 14 1300MST 1305MST
  - Hail(1.50)

El Paso County
- Colorado Spgs
  - 14 1328MST 1333MST
  - 24M Hail(1.00)

El Paso County
- 3 N Colorado Spgs
  - 14 1347MST 1352MST
  - Hail(1.25)

El Paso County
- 4 SE Colorado Spgs
  - 14 1423MST 1428MST
  - Hail(1.50)

The large hail caused around $24 million on the north side of Colorado Springs. Around 5500 auto and 2500 homeowners claims were filed.

Otero County
- Timpas
  - 14 1540MST 1545MST
  - Hail(0.88)

Prowers County
- 19 SE Lamar
  - 14 1720MST 1725MST
  - Hail(2.50)

Otero County
- 7 NNE La Junta to 5 S La Junta
  - 15 1345MST 1425MST
  - 20K Thunderstorm Wind (G75) M

Outflow winds from a decaying thunderstorm generated a peak wind gust of 86 mph at the La Junta Airport. High winds extended from several miles north of La Junta to several miles south of La Junta. A few roofs were taken off barns in the vicinity of Cheraw,
COLORADO, South Central and Southeast

north northeast of La Junta.

El Paso County

2 WSW Colorado Spgs 16 1300MST 1305MST 0 0 Hail(0.75)

Teller County

Cripple Creek 16 1535MST 1540MST 0 0 Hail(0.75)

Pueblo County

Pueblo West 16 1653MST 1658MST 0 0 Hail(0.75)

Baca County

12 SE Campo 17 1345MST 1350MST 0 0 Hail(0.75)

Pueblo County

Pueblo West 17 1750MST 0 0 30K Dry Microburst

Virga caused an 82 mph microburst wind gust. Many fences were blown down...a few trees were uprooted...and about 200 homes were without electricity for a short time.

Prowers County

Hartman 19 1430MST 0.1 20 0 0 Tornado (F0)

A brief landspout tornado caused no known damage.

Prowers County

2 E Hartman 19 1445MST 0.1 20 0 0 Tornado (F0)

A brief landspout tornado caused no known damage.

Prowers County

8 S Holly 19 1850MST 1855MST 0 0 Hail(0.75)

Prowers County

5 S Holly 19 1950MST 1955MST 0 0 Hail(1.00)

Prowers County

5 S Holly 19 1952MST 1957MST 0 0 Hail(2.00)

El Paso County

7 NW Colorado Spgs 19 2209MST 2214MST 0 0 Hail(1.25)

Río Grande County

2 SSW South Fork to 5 E South Fork 19 1500MST 30 1539MST 0 0 11M Wild/Forest Fire

The Million Fire started in a rolled up section of illegally dumped sod. It is not known for sure whether the sod spontaneously combusted or was set on fire by a human. The fire spread rapidly with dry conditions and high winds. The 9300 acre fire totally destroyed 11 high end residences. Six residences were heavily damaged, and 2 outbuildings were destroyed. The fire was contained on July 4th. It cost nearly 3 1/2 million dollars to fight the fire.

Las Animas County

4 N Trinchera 20 1528MST 1533MST 0 0 Hail(0.75)

Las Animas County

Kim 20 1700MST 0 0 Thunderstorm Wind (G52) M

Las Animas County

9 SE Kim 20 1705MST 1710MST 0 0 Hail(0.75)

COZ076-078>081 Northwest Fremont County Above 8500 Ft - Westcliffe Vicinity / Wet Mountain Valley Below 8500 Ft - Wet Mountains Between 8500 And 10000 Ft - Wet Mountains Above 10000 Ft - Teller County / Rampart Range Above 7500 Ft / Pikes Peak Between 7500 & 11000 Ft

20 2018MST 20100MST 0 0 High Wind (G65) M
COLORADO, South Central and Southeast

A decaying thunderstorm complex and strong pressure gradient created winds between 60 and 80 mph across the region. Numerous downed tree limbs caused brief power outages of less than 20 minutes in the Rocky Ford and La Junta areas. Storage sheds were also damaged across the area.

Huerfano County
13 SE Walsenburg 21 1320MST 1325MST 0 0 Hail(0.88)

El Paso County
Skyway 21 1632MST 1637MST 0 0 Hail(1.00)

Saguache County
10 N Villa Grove 21 1810MST 1815MST 0 0 Hail(1.00)

Las Animas County
19 NW Weston 21 1830MST 1835MST 0 0 Hail(0.75)

El Paso County
4 E (Aff/Usaf Aedmy Col 24 1236MST 1241MST 0 0 Hail(1.00)

Kiowa County
8 W Eads 24 2230MST 2235MST 0 0 Thunderstorm Wind (G52)

Teller County
10 NW Divide 27 1600MST 1700MST 0 0 Flash Flood

Rainfall rates of around 1 inch an hour caused flooding across portions of the Hayman Burn Area in Teller county. Over 1000 firefighters were told to head for safe places.

Fremont County
6 W Penrose 28 1730MST 0 0 30K Lightning

A double wide mobile home was struck by lightning and caught fire. Two occupants fled the mobile home, which was totally destroyed.

COLORADO, West

COZ001+014-017>023


Extreme to exceptional drought conditions prevailed across western Colorado in June, with a significant negative impact on agricultural interests and the recreation industry. By early June, many streams and rivers were already running too low to support rafting and kayaking, while most seasonal streams had become dry. Water rationing and other water conservation measures were enacted in some municipalities. The persistent drought increased the potential for major wildfires. See the July 2002 Storm Data publication for a continuation report on the drought in western Colorado.

Mesa County
7 NWY Mack to 7.5 NWY Mack 03 1530MST 0.5 0.5 0 0 Tornado (F0)

A tornado was observed and photographed by a BLM employee in a remote area.

Garfield County
10 SW Glenwood Spgs to 10 NW Glenwood Spgs 08 1200MST 0 0 0 Wild/Forest Fire

Strong winds carried an ember from an opening of a burning underground coal seam to nearby brush in South Canyon. The fire quickly spread northeast across forested terrain, jumped railroad tracks, the Colorado River and Interstate 70. The fire continued north of Interstate 70 and into west Glenwood Springs where it destroyed 29 residences and 14 other buildings. Nearly 3000 people were evacuated from that area. The fire continued to move north and east and persisted into the month of July. Additional information on this fire, known as the Coal Seam Fire, can be found in the July Storm Data publication.
COLORADO, West

Mesa County

6.5 WSW Glade Park to 1 WSW Glade Park

<table>
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<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
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Strong winds caused an unsupervised campfire to ignite a wildfire which consumed over 2500 acres of juniper and pinyon pine trees. Residents from 230 homes in the area were ordered to evacuate. This wildfire became known as the Dierich Creek Fire, and was later group named with other wildfires as the Miracle Complex. Total fire fighting costs for the Dierich Creek Fire were just over one million dollars.

COZ009

Grand And Battlement Mesas

<table>
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<th>Location</th>
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<th>Path Length (Miles)</th>
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Strong winds ahead of a cold front blew down and snapped off numerous Engelmann spruce and subalpine fir trees on the Grand Mesa. The downed trees blocked roads and resulted in campground closures.

La Plata County

An unknown ignition source in a dry ditch southeast of the first switchback on the Missionary Ridge Road started a forest fire which spread east, north, and south by changing wind directions. The fire became know as the Missionary Ridge Fire and consumed just over 70,000 acres of forest before the end of the month, and destroyed at least 34 houses, with many others damaged. On June 17, a very intense fire whirl generated by the fire traveled through the northern periphery of Vallecito Reservoir, producing damage equivalent to an F2 tornado. Large spruce trees up to two feet in diameter were snapped off above the trunk, boats were picked up off the lake and hurled through the air to the other end of the lake, several vehicles were picked up and rolled, and a number of houses were damaged. Total fire damage and firefighting cost estimates were not yet available by the end of June, since this wildfire continued into July. See the July 2002 Storm Data publication for a continuation of this wildfire report.

Mesa County

A wildfire which was ignited from an unknown source consumed 15 acres of juniper and pinyon pine trees along Colorado Highway 65 near Interstate 70. The fire also consumed wooden guard rail posts along the highway. The fire was named the Plateau Creek Fire.

Garfield County

Lightning ignites a fire on the Tavaputs Plateau. Strong winds quickly spread the wildfire which consumed nearly 1500 acres of forest. This wildfire became known as the Long Canyon Fire, and later it was group named with other fires as the Miracle Complex. Total cost of fighting the Long Canyon Fire was about 550,000 dollars.

San Miguel County

Lightning ignited a fire on the forested east slope of Lone Cone Mountain. The fire was named the West Beaver Fire and continued through the end of the month. See the July 2002 Storm Data publication for a continuation of this wildfire report.

Moffat County

Lightning started a wildfire on Pinyon Ridge, and the fire was consequently named the Pinyon Ridge Fire. This fire persisted beyond the end of the month. See the July 2002 Storm Data publication for a continuation of this wildfire report.

Garfield County

Lightning sparked a forest fire which was named the Spring Creek Fire. 62 houses, 40 other buildings, and the town of Newcastle's only water supply were threatened by the fire. The cost of fire fighting efforts reached about 1.4 million dollars by the end of the month. This wildfire persisted beyond the month of June. See the July 2002 Storm Data publication for a continuation of the Spring Creek wildfire report.

Gunnison County

Lightning ignited a wildfire on private property which spread quickly to BLM land due to strong winds. A number of people were evacuated from residences in the area. This wildfire became known as the Wiley Ridge Fire and continued through the end of the month. See the July 2002 Storm Data publication for the remainder of the report on this wildfire.
COLORADO, West

La Plata County
3 SSW Hermosa to 4 SW Hermosa

Lightning ignited a fire in the Falls Creek area which adjoins the west side of the Animas Valley. The fire burned in a forested area and consumed 22 houses in the Falls Creek subdivision before the end of June. This wildfire was named the Valley Fire and persisted into July. The Valley Fire was included as part of the Missionary Ridge Fire Complex. See the July 2002 Storm Data publication for a continuation report of the Valley Fire.

San Miguel County
15 S Norwood

Lightning strikes near the West Beaver Fire on Lone Cone Mountain ignited three new wildfires which were contained by fire fighters within several hours. One lightning bolt struck a fuel truck servicing helicopters used in fighting the fires. The entire electrical system of the fuel truck was destroyed. The driver of the truck was uninjured.

Moffat County
13 NNW Massadona to 15 NNW Massadona

Lightning ignited a wildfire in Dinosaur National Monument which consumed 4500 acres of vegetation by the end of the month. This fire was named the Bear Fire and continued into July. See the July 2002 Storm Data publication for further information on this wildfire.

Archuleta County
17 NW Chimney Rock to 17 NW Chimney Rock

The Missionary Ridge Fire burning in La Plata County moved into the northwest corner of Archuleta County and continued burning into the month of July. Several hundred acres of forest were consumed in the county by the end of June. See the July 2002 Storm Data publication for a continuation report of the Missionary Ridge Fire.

Gunnison County
7 NNW Sapinero to 9 NNW Sapinero

Lightning ignited a forest fire which was named the Soap Creek Fire. This fire persisted through the end of the month. See the July 2002 Storm Data publication for a continuation of this wildfire report.

CONNECTICUT, Northeast

Hartford County
Manchester

Lightning struck a tree next to a house in Manchester, traveling through the rear of the house and ending up in the garage. It sparked a small fire, which left several beams in the garage charred, but damage was minor.

Hartford County
Granby to North Granby

Hartford County
East Windsor to Enfield

Tolland County
Ellington to East Willington

Severe thunderstorms produced dime sized hail in Hartland, Granby, Suffield, Enfield, Ellington, and Tolland. The storms strengthened when they reach Willington, where quarter sized hail was reported. There were no reports of injuries or damage from the hail.

CONNECTICUT, Northwest

Litchfield County
Salisbury

Tornado (F1)
Thunderstorms erupted during the evening hours of June 5 across eastern New York, along a pre-frontal trough of low pressure. As the line of storms moved into Litchfield County, one cell became tornadic. A thunderstorm cell spawned a tornado, 2.5 miles north of Salisbury. There were two distinct touchdowns. The damage was reported by the general public and was investigated by National Weather Service meteorologist. It exclusively consisted of tree damage. The first touchdown, with a 100 yard-wide swath and a 0.5 mile path length took out a large area of trees, in a herringbone pattern, including many large oak trees up to 20 inches in diameter. The winds were estimated at 110 mph. The twister apparently lifted off the ground, then about a quarter mile east and a little south from the first path, the twister touched down again and knocked down another bunch of oak trees up to a foot in diameter, more indicative of F0 damage. The wind with this touchdown was estimated around 70 mph. The tornado destroyed a total of about 2 acres of healthy mature forest but no injuries or damage to structures was noted.

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
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Scattered thunderstorms developed along an occluded frontal boundary on midday June 16 across western New York state. The intensity was aided by a large cold pocket of air aloft, combined with the strong June midday sunshine. As the storms approached the Hudson Valley of eastern New York, some of them became severe. Scattered severe storms moved into Litchfield County. One of them, that had spawned a tornado in southeastern Dutchess County, produced a weaker F0 tornado near Lanesville. Tree damage occurred along Route 7 about 0.4 miles south of the intersection of Cross Road and Route 7. The path of this tornado was 25 yards wide and a quarter mile long. Dime to half dollar size hail covered the ground at Woodbury. This same storm pounded a large farm in Roxbury with hailstones estimated to be dime size. The hail produced an estimated 30,000 dollars of loss to various crops on that farm. Nickel size hail was also reported at New Milford.

Scattered thunderstorms developed in a very unstable humid airmass during the afternoon of June 26. One of the storms became briefly severe as it moved into Litchfield County. Thunderstorm winds from this cell knocked down trees in the town of Kent.

**CONNECTICUT, Southern**

Diligent water conservation practices and a wetter pattern helped ease drought conditions during June, which marked the second consecutive month of slightly above normal precipitation across the region. Southern Connecticut received an average of 4.44 inches of rain, which was 130 percent of normal.

At the end of June, a majority of the streams monitored in real time by the U. S. Geological Survey in Connecticut, were classified as having streamflows in the 25 to 74 percentile. Ground water storage was below normal capacity.

The State of Connecticut canceled the Drought Advisory for New London County and the Drought Watch for Fairfield, New Haven, and Middlesex Counties during the middle of the month. The advisory and watch were issued on April 3rd.

<table>
<thead>
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<th>Location</th>
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<tr>
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Thunderstorms produced lightning that ignited fires and damaged the Exeter Energy Plant in the Sterling Industrial Park at 2:43am EDT and a 6 unit building in the Bean Hill Condominiums at 213 West Town Street at 2:00am EDT.
Nine volunteer fire departments from surrounding towns and Rhode Island responded to and took shifts fighting the fire in Sterling Industrial Park because of intense heat and dust. The Bean Hill Condominium fire resulted in an evacuation of all six units in the building. The Yantic fire chief said that the fire caused moderate damage to the exterior wall of unit 22D.

As a severe thunderstorm moved east across extreme Northern Fairfield, Northern New Haven and Northern Middlesex Counties, it produced large hail and damaging wind gusts. Spotters in Sherman and Waterbury reported 3/4-inch diameter hail. High winds downed trees in Naugatuck and trees and wires in East Hampton.

An isolated severe thunderstorm, embedded within a band of heavy showers and thunderstorms, produced high winds that downed trees in Wallingford.

As a severe thunderstorm moved northeast, local police reported that strong winds knocked down several power lines.

As a severe thunderstorm moved northeast, local police reported dime size hail.

June monthly precipitation across Delaware continued the pattern that occurred in May with wetter conditions in the northern part of the state and less and less precipitation farther south. On a county weighted average June monthly precipitation was 1.9 inches in Sussex County, 2.8 inches in Kent County and 3.9 inches in New Castle County. Normal is around 3.7 inches. Monthly precipitation totals at the New Castle County Airport was 4.95 inches and in Georgetown (Sussex County) was 1.95 inches. The drought warning remained in effect for the state. Governor Ruth Ann Minner continued to ask residents to voluntarily conserve water by restricting all non-essential uses such as washing cars and using wise water habits such as running the dishwasher and clothes washer with full loads. The Delaware River Basin Commission voted to continue its drought emergency declaration for the entire Delaware River drainage basin through October 2002, unless hydrological conditions vastly improved. The New York City Reservoirs which feed the Delaware River increased from 81.2 percent of capacity on June 1st to 89.9 percent of capacity on June 24th and then dropped to...
DELAWARE

89.0 percent of capacity as of July 1st.

New Castle County
Odessa to Townsend
06 1545EST
0 0

Thunderstorm Wind (G50)

A severe thunderstorm caused sporadic tree damage across southern New Castle County. The worst reported damage was in Odessa and Townsend.

Kent County
Smyrna
06 1555EST
0 0

Hail(1.50)

Kent County
Smyrna to Dover
06 1555EST
0 0

Thunderstorm Wind (G57)

Kent County
(Dov)Dover Afb
06 1615EST
0 0

Thunderstorm Wind (G52)

A severe thunderstorm hit the northern half of Kent County hard. Wind damage was reported in Smyrna, Clayton, Cheswold and Dover. Some of the worst damage was reported in and around Smyrna. Ice cube size hail fell and damaged the siding of one home. A camper was flipped over, gutters were ripped from one home and a twenty-four foot sailboat was thrown a few hundred feet. South of Smyrna along U.S. Route 13, a small barn was destroyed. Heavy rain also fell and caused roadway flooding along U.S. Route 13, Delaware State Route 300 and Wyoming Mill Road. A peak wind gust of 60 mph was measured at Dover Air Force Base.

Kent County
Dover
06 1625EST
0 0

Hail(0.75)

Sussex County
Gumboro
06 1645EST
0 0

Thunderstorm Wind (G50)

Sussex County
Milford Arpt to Lincoln
06 1655EST
0 0

Thunderstorm Wind (G52)

Two severe thunderstorms caused wind damage in Sussex County. The first storm pulled down wires on Sussex County Routes 424 and 61 in and around Gumboro. The second storm knocked down trees in Milford and Lincoln.

New Castle County
Newark to 5 E Newark
18 1715EST
0 0

Thunderstorm Wind (G52)

A severe thunderstorm knocked down a few trees along Main Street in Newark. The same thunderstorm pulled down limbs onto wires in Milltown (Mill Creek Hundred).

Kent County
3 W Harty
19 1445EST
0 0

Hail(0.75)

New Castle County
Northwest Portion
19 1800EST
0 0

Flash Flood

Slow moving thunderstorms with heavy rain dropped a Doppler Radar estimated three to four inches of rain within two hours across extreme northwest New Castle County and adjacent locations of Chester County Pennsylvania. This caused poor drainage and stream flooding in northern parts of Mill Creek and Christina Hundreds.

DEZ001>003

New Castle - Kent - Inland Sussex
24 0900EST
0 0

Excessive Heat

The first prolonged period of heat and humidity of the season affected Delaware for most of the work week of June 24th. A strong cold frontal passage during the evening of the 27th ended the hot spell. Highest temperatures included 96 degrees in Georgetown (Sussex County), 95 degrees in Milford (Kent County) and Greenwood (Sussex County), 93 degrees at the New Castle County Airport and in Wilmington (New Castle County).

New Castle County
Hockessin
24 1900EST
0 0

Thunderstorm Wind (G52)

A severe thunderstorm pulled down about a dozen trees in Hockessin (Mill Creek Hundred).

DISTRICT OF COLUMBIA

District Of Columbia
Countywide
06 1500EST
0 0 15K

Thunderstorm Wind
### DISTRICT OF COLUMBIA

Forty trees were downed and the roof of an apartment building was blown off. The time was estimated.

A thunderstorm with high winds moved through the District around 4 PM EDT on the 6th. It caused 40 trees and 25 electrical wires to be downed, mainly across the northeast portion of the city. Four homes were damaged by fallen trees. The roof of an apartment building was also blown off. A wind gust of 48 MPH was recorded at Washington Reagan National Airport. Nearly 8000 customers lost power as a direct result of the storm.

<table>
<thead>
<tr>
<th>Location</th>
<th>Time/Date</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
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FLORIDA, East Central

Lightning started a fire that damaged an apartment in Winter Park.

FLORIDA, Extreme Southern

NONE REPORTED.

FLORIDA, Northeastern

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<tr>
<td>Sixty to eighty feet of a church roof blown off and onto power lines.</td>
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FLORIDA, Northeastern

Marion County
Ocala
13 1641EST
Power lines downed with several fires started.

Marion County
Ocala
13 1659EST
Two large trees fell onto a house. A large tree was blown over onto the Ocala National Bank. Numerous reports of downed power lines.

Marion County
Ft Mc Coy
13 1810EST
Trees down over power lines causing power outages.

Duval County
Jacksonville Beach
19 1430EST 1530EST
Extensive flooding of streets with road closures.

Clay County
10 SW Orange Park
19 1620EST
Large trees and lower lines down over Tacoa Rd.

St. Johns County
Dowling Park
20 1928EST
Numerous large trees and powerlines down.

St. Johns County
Countywide
21 0730EST 0800EST
Numerous streets flooded and closed

Duval County
Jacksonville Beach
21 0730EST 1129EST
Street flooding.

Duval County
East Portion
21 1130EST 1700EST
Numerous street flooded and closed.

Putnam County
Countywide
22 1200EST 1300EST
Numerous streets, highways and underpasses impassable due to flooding.

Duval County
Countywide
22 1200EST 1300EST
Street flooding reported.

St. Johns County
Palm Vly
22 1200EST 1300EST
Palm Valley Rd. flooded near bridge.

Marion County
Marion Oaks
22 1329EST
Funnel cloud reported just off the ground.

Marion County
Marion Oaks
22 1400EST 0.1 0.1
Trees snapped and twisted. Numerous trees down.

Marion County
5 N Dunnellon to Dunnellon
22 1400EST
Numerous trees blown down.

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35
### Storm Data and Unusual Weather Phenomena

#### FLORIDA, Northeastern

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### Storm Data and Unusual Weather Phenomena

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Numerous trees and power lines down in the Rocky Creek area, about four miles southeast of Marianna. Large trees fell on three trailers and caused heavy damage. The Rocky Creek Community Church front awning was destroyed by a fallen tree. A nearby horse shed was damaged. Several county roads were blocked by fallen trees and power lines. In Marianna, a section of wall to a business on Jefferson Street collapsed, and an awning to a business on U.S. Highway 90 was destroyed.

Power lines down northwest of Cross City. Reported by the Dixie County Sheriff.

Dime size hail fell between Miccosukee and Centerville Roads west of Capital Circle NE. Reported by a cooperative observer.

Dime size hail fell on State Highway 20. Reported by the Leon County EMA.

Numerous downed power lines reported by DeFuniak Springs Police.

A few power poles uprooted. Reported by the Franklin County Sheriff.

Four homes at a mobile home park incurred minor damage.

A 47-year old man was injured when lightning struck the metal railing on which he was leaning on the second floor of his condominium.

A large sign was blown down at the Lighthouse Plaza shopping center. Fifteen FP&L electrical transformers were disabled by lightning strikes causing power outages to 7550 customers.

Eight to ten inches of rain fell in central Broward County causing minor flooding in several houses.

Lightning struck a 23-foot boat in Biscayne Bay as it approached Crandon Park Marina. The lightning shattered a plexiglass windshield injuring the three persons aboard.

Brush fires sparked by lightning near Warm Mineral Springs burned about 500 acres south of Interstate 75. At one time, the fire came within a quarter mile of the interstate, threatening to close it.

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June 2002

Storm Data and Unusual Weather Phenomena
FLORIDA, West Central

Levy County
Bronson

Hillborough County
National Weather Service damage survey concluded the F0 tornado moved through the Town and Country area, beginning just north of Hillsborough Avenue on Tudor Road and continued northwest to near the intersection of Wexford and Timberlane West Road. The majority of the damage occurred in the Essex Downs mobile home park where 31 units were damaged. Further northwest, the tornado downed trees, tore the siding off the back of one home, destroyed a pool cage, and blew over 75 yards of fence. Maximum wind estimated at 65 mph.

Pinellas County
.5 ENE Crystal Beach
Trained weather spotter was watching the funnel cloud and noticed it touched down briefly with no damage.

Pinellas County
.8 E St Petersburg Beach
1.2 SSE St Petersburg Be
Damage survey showed path from Boca Ciega Isle to McPherson Bayou with damage to 40 homes, 10 of which where uninhabitable due to water damage. The tornado ripped off parts of roofs, crumbled pool cages, and toppled trees.

Pinellas County
Treasure Is
Heavy rain caused the roof of a hotel to collapse. One minor injury was reported due to falling ceiling tiles inside the motel during the collapse.

Charlotte County
7 ENE Punta Gorda
Charlotte County
4 SE Punta Gorda
Newspaper reported a small tornado at the Charlotte County Speedway, just south of the airport. A tower, fence, billboards, and lightning system were all marred.

Charlotte County
5 SW Port Charlotte to 4 SW Port Charlotte
The tornado started out as a waterspout over Charlotte Bay and moved onshore. Damage survey showed tornado was in an area of mostly vacant lots with numerous dead pine trees killed by previous wild fire. Numerous trees were down and a number of nearby power lines were broken or shorted out by airborne debris, but the closest home was outside the area of tornadic wind and no structure damage was reported.

Charlotte County
5 N Charlotte Beach
Manatee County
.2 W Holmes Beach
Waterspout came ashore at the 4000 block of Holmes Beach. No damage was reported.

Citrus County
Crystal River
Lightning hit a 230,000 volt switchyard a few hundred feet from the nuclear power plant and knocked out one of the plant's dual power feeds.

Citrus County
3 NE Inverness
Sumter County
Wildwood
Four inches of rain in one hour was reported by city officials. Flooding shut down U.S. Highway 301 and a two block area near the Wildwood shopping center.

Hernando County
Bayport to Berkeley

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Storm Data and Unusual Weather Phenomena

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June 2002
FLORIDA, West Central

A nearly stationary upper level low pressure area remained parked over the northeastern Gulf of Mexico, pumping moisture into the region. Radar estimated 6 to 10 inches of rain. Heavy rains during the previous week had saturated the soil, which aggravated the flooding and caused sink holes to form.

Polk County
Lakeland to Mulberry
24 1550EST 1700EST 0 0 Flash Flood
A moist atmosphere combined with slow moving thunderstorms produced rainfall of 4 to 8 inches in eastern Polk county. In Lakeland, officials reported that up to 100 structures and 40 vehicles had some form of water damage. Thirty people from three mobile home parks near Maine Avenue and Reynolds Road had to be evacuated. This is the same area where a women had to be rescued after she drove her Buick into a submerged ditch. Later that evening, a sinkhole opened up under a porch in the area. In Mulberry, some three dozen cars were flooded with some of the cars actually floating from their parking spots. High water was common throughout the city.

Hillsborough County
Tampa
24 1626EST 1800EST 0 0 Flash Flood
Recorded up to 4.5 inches of rain producing submerged vehicles at a large hotel and three feet of water on sidewalks along Willsborough Avenue between 30th and 40th streets.

Citrus County
5 E Crystal River
28 1343EST 0 0 Tstm Wind/Hail
Several large limbs and one tree fell on a vehicle along County Road 486.

Citrus County
5 N Floral City
28 1450EST 0 0 Thunderstorm Wind (G51)
Numerous large oak limbs down with average diameter of four inches.

Lee County
Cape Coral
28 1510EST 0 0 Urban/Sml Stream Fld
Poor drainage caused three feet of standing water in the Palmetto Park section of Cape Coral.

Pinellas County
Clearwater
28 1640EST 0 0 Thunderstorm Wind (G55)
Tops of trees sheared off and 10 inch limbs snapped off

Hillsborough County
Valrico
29 1745EST 0 0 5K Thunderstorm Wind (G50)
Downed trees damaged one car and one home.

Hillsborough County
Temple Terrace
29 1830EST 1 0 Lightning
A man was struck on a bicycle trying to escape an approaching storm. He had been fishing in the Tampa Bypass Canal near Interstate 75 and Fowler Avenue.

Polk County
Ft Meade to Bartow
30 1420EST 1440EST 0 0 Urban/Sml Stream Fld
Urban and small stream flooding stalled cars on U.S. 17 and in Mulberry.

FLORIDA, West Panhandle

Santa Rosa County
Jay
14 1315CST 1316CST 0 0 8K Thunderstorm Wind (G50)
High winds damaged a home south of Jay. A metal shed was blown away, an awning was blown from a trailer and the back porch to the home was damaged.

Santa Rosa County
Holley
14 1500CST 1501CST 0 0 20K Thunderstorm Wind (G50)
High winds from a thunderstorm blew down power lines near Holley by the Sea. Five homes also suffered minor roof damage.

Escambia County
(Pns)Pensacola Regio
24 0935CST 0936CST 0.1 10 0 0 Tornado (F0)
FLORIDA, West Panhandle

Emergency management officials saw a very small pencil type tornado briefly touch down near the airport in a dirt pit. The tornado did no damage and dissipated almost as soon as it touched the ground.

GEORGIA, East Central

Burke County
5 E Waynesboro 03 1722EST 0 0 3K 0 Thunderstorm Wind (G50)
EOC reported trees down on a mobile home.
Richmond County
Augusta 03 1858EST 0 0 0 Hail(1.75)
HAM operator reported golf ball size hail in northwest Augusta along Riverwatch Parkway.
Burke County
Waynesboro 30 1500EST 0 0 0 0 Thunderstorm Wind (G50)
Sheriff reported a couple of trees down in Waynesboro.

GEORGIA, Lower

Wayne County
4 W Gardi 03 1505EST 0 0 Hail(0.75)
Near Little Creek.
Appling County
5 N Surrency 03 1540EST 0 0 Hail(0.75)
Appling County
5 N Surrency 03 1540EST 0 0 5K Thunderstorm Wind
3 chicken houses damaged by winds. Large trees down. Widespread power outage.
Clinch County
1 N Fargo 04 1345EST 0 0 Hail(1.00)
Brantley County
Raybon to Hoboken 06 1700EST 1715EST 0 0 1K Thunderstorm Wind
Large trees and power lines down.
Charlton County
5 N Folkston 14 2030EST 0 0 5K Thunderstorm Wind
Large pines downed onto power lines. Along Highway 252.
Camden County
White Oak 28 1600EST 0 0 2K Thunderstorm Wind
Large trees blown down over rad and powerlines.
Appling County
Baxley 29 1844EST 0 5 Tstm Wind/Hail
Thunderstorm winds blew unsecured camper top into the window of a resturant. Window was broken injuring patrons.
Echols County
Countycwide 30 1710EST 0 0 2K Thunderstorm Wind
Large trees and power lines down.
Wayne County
Odum 30 1740EST 0 0 Hail(0.75)
Appling County
Baxley 30 1800EST 0 0 2K Thunderstorm Wind
Large trees and power lines down across town. Roads blocked.
Coffee County
Douglas 30 1900EST 0 0 2K Thunderstorm Wind
Large trees down across roadways.
GEORGIA, North and Central

Toombs County
 Lyons 03 1700EST 0 0 1K Thunderstorm Wind
The Toombs county 911 center reported that several trees were blown down.

Toombs County
 Lyons 03 1705EST 0 0 Hail(0.75)
The public reported dime size hail on Georgia Highway 178.

Emanuel County
 Twin City 03 1715EST 0 0 Lightning
The Emanuel county 911 center reported that lightning ignited several fires in the city, but no further information or damage estimates were provided.

Emanuel County
 Twin City 03 1715EST 0 0 125K Thunderstorm Wind
The Emanuel county Emergency Management Director reported that strong straight line easterly winds from a westward moving thunderstorm complex destroyed two mobile homes, severely damaged two more, caused minor damage to 13 homes, and downed numerous trees and power lines. The entire city was reported to have been without power through the entire evening.

Montgomery County
 Kibbee 03 1745EST 0 0 0.50K Thunderstorm Wind
The Montgomery county 911 center reported that a few trees were blown down.

Laurens County
 Cadwell 03 1840EST 0 0 25K Thunderstorm Wind (G52)
The Courier-Herald of Dublin reported that thunderstorm winds caused considerable damage in Cadwell. Trees and power lines were blown down throughout the area. One home had a tree fall through its roof and a city shed had half of its roof torn off. Trees were reported down on U.S. Highway 441 and Georgia Highway 117.

Laurens County
 Cadwell 03 1845EST 0 0 Hail(1.75)
The Laurens county 911 center reported golf ball size hail and a storm spotter reported dime size hail.

Dodge County
 Roddy 03 1900EST 0 0 Hail(0.75)
The public reported dime size hail.

Dodge County
 Chester to 5 S Eastman 03 1915EST 0 0 10K Thunderstorm Wind
The Dodge county 911 center reported that numerous trees and power lines were down in several areas throughout the county including Chester, Plainfield, Eastman, and south of Eastman on Georgia Highways 87 and 117.

Bleckley County
 Cochran 03 2030EST 0 0 Hail(0.75)
The Bleckley county 911 center reported dime size hail.

Bleckley County
 Cochran 03 2030EST 0 0 2K Thunderstorm Wind
The Bleckley county 911 center reported that a couple of power poles and a few trees were blown down.

Marion County
 Buena Vista 04 1516EST 0 0 Hail(0.75)
The Buena Vista Post Office reported dime size hail.

Muscogee County
 Columbus 04 1535EST 0 0 Hail(0.88)
Several reports of dime to nickel size hail were received from the public and one report from television station KBVT in Columbus.

Catoosa County
 Ringgold 04 1602EST 0 0 Hail(0.75)
GEORGIA, North and Central

The public reported dime size hail.

Catoosa County
Ringgold 04 1602EST 0 0 Thunderstorm Wind (G52)
The public estimated thunderstorm wind gusts at 60 mph.

Summerville 04 1645EST 0 0 Hail(0.75)
The public reported dime size hail.

Summerville 04 1645EST 0 0 25K Thunderstorm Wind
The Summerville News reported that strong thunderstorm winds blew trees over onto several homes and across roads and also blew down the cook shed at the Chattooga County Memorial Home.

La Grange 04 1654EST 0 0 100K Thunderstorm Wind
The LaGrange Daily News, along with the public, storm spotters, and the local post office all reported a considerable amount of wind damage in the LaGrange area. Numerous large trees were blown down or uprooted, several landing on homes, power lines, and in the city streets. The northbound lanes of Interstate 85 near LaGrange were closed for a period of time as tree debris blocked the lanes. Numerous lengthy power outages resulted from all of the downed trees and power lines around the city. Many traffic signals were rendered inoperative by the power outage, causing numerous traffic problems. City crews estimated that it would cost $10,000 just to clean up all of the debris in the streets. Three homes sustained major damage to roofs when large trees were blown over onto them. At one home, the downed tree also broke out a window, damaged a computer just inside the window, and caused considerable damage to a 1995 Chevrolet Cavalier. Another home suffered $10,000 in damage when a large Silver Maple tree fell through the roof. At yet another home, $3,000 worth of damage was caused when a tree fell on a power line and pulled the main electrical line from the house. There were several other reports of electrical meters being ripped from the sides of homes as power lines were pulled down by trees and took the meters along with them. Another car was heavily damaged when part of a large oak tree fell on an automobile at another residence. A storage building was also destroyed by the wind.

Franklin 04 1700EST 0 0 Hail(1.00)
The Heard county 911 center reported quarter size hail.

La Grange 04 1700EST 0 0 0.50K Lightning
The LaGrange Daily News reported that lightning struck a tree.

La Grange 04 1706EST 0 0 Hail(1.00)
Storm spotters reported dime to quarter size hail.

Cassville 04 1715EST 0 0 Hail(1.00)
The public reported quarter size hail.

Bowdon to Whitesburg 04 1730EST 0 0 15K Thunderstorm Wind
The Carroll county Emergency Management Director reported that numerous trees and power lines were down in Bowdon, Mt. Zion, and Whitesburg. In addition, an old barn was destroyed and the back porch on an old house was damaged.

Calhoun 04 1730EST 0 0 5K Thunderstorm Wind
The Gordon county 911 center reported that numerous trees were blown down.

Franklin 04 1730EST 0 0 Hail(1.00)
The Heard county 911 center reported yet another round of quarter size hail.

Thunder 04 1730EST 0 0 Hail(0.88)
An amateur radio operator reported nickel size hail and the Upson county Emergency Management Director reported dime size hail.
Amateur radio and public reports indicated that quarter size hail fell in the Grantville, Moreland, and Sharpsburg vicinities. The hail was large enough to damage some cars on Interstate 85 near the U.S. 29 highway interchange.

An amateur radio operator reported that trees and power lines were down in downtown Molena at the intersection of Georgia Highways 109 and 18.

An amateur radio operator reported that trees were blown down in the Thundering Springs, Camp Thunder area of extreme northwest Upson county.

A storm spotter reported dime size hail.

The public reported street flooding along Sope Creek at Sandy Plains Road.

The public reported that several trees were blown down.

Amateur radio and several public reports indicated that there was dime size hail in the extreme northeast part of Cobb county near the Chattahoochee River and Roswell.

An amateur radio operator reported that some 2 foot diameter trees were blown down.

The public reported that several trees were blown down.

An amateur radio operator reported dime size hail.

Two structural fires caused by lightning. Damage was unknown and there were no injuries reported.

The Forsyth county Emergency Management Director reported that twelve separate homes were set on fire by lightning across the county. One of the homes, a two-story fairly large home, was completely destroyed by the fire. The others sustained minor damage. No injuries were reported with the incidents.

The Forsyth county 911 center reported that several trees and power lines had been blown down.
The Henry county 911 center reported that numerous trees and power lines were blown down in Stockbridge and McDonough, with two trees down in Locust Grove.

Henry County
Ola to Locust Grove
04 2020EST 2039EST 0 0 Hail(0.88)

The Henry county 911 center and the public reported dime to nickel size hail in Locust Grove and Ola.

Butts County
Jackson
04 2030EST 0 0 10K Thunderstorm Wind

The Butts county 911 center reported that numerous trees and several power lines had been blown down.

Lumpkin County
Dahlonega
04 2040EST 2043EST 0 0 Hail(0.75)

An amateur radio operator reported dime size hail.

Lumpkin County
Dahlonega
04 2040EST 0 0 Thunderstorm Wind (G53)

An amateur radio operator measured thunderstorm wind gusts at 61 mph on his Peet Brother Weather Machine.

Rockdale County
Conyers
04 2053EST 2114EST 0 0 Hail(0.88)

The Rockdale county 911 center reported nickel size hail.

Rockdale County
Conyers
04 2053EST 2114EST 0 0 2K Thunderstorm Wind

The Rockdale county 911 center reported that some trees were down.

Madison County
Danielsville
04 2220EST 0 0 Hail(1.00)

The Madison county 911 center reported quarter size hail.

Madison County
Danielsville to Hull
04 2220EST 0 0 0.50K Thunderstorm Wind

The Madison county 911 center reported that several tree limbs were blown off trees from Danielsville to Hull

Greene County
Greensboro
04 2244EST 0 0 Tstm Wind/Hail

The Greene county 911 center reported that one tree was blown down.

Polk County
Cedartown
05 1732EST 0 0 Hail(0.75)

A storm spotter reported dime size hail.

Floyd County
Rome
05 1800EST 0 2 10K Lightning

The Rome News Tribune reported that lightning struck three homes in the city of Rome. The lightning caused injury to a man and a boy at one residence as lightning entered through a window. Fires were started at the other two residences, but damage was reported to be minor.

Floyd County
Rome
05 1800EST 0 0 15K Thunderstorm Wind

The Floyd county 911 center reported that trees and power lines were blown down, especially in the Ridge Ferry Park area. The Rome News Tribune reported that downed trees and power lines left 3700 people in the city without power through the evening

Floyd County
Rome
05 1800EST 0 0 Urban/Smr Stream Fld

The Rome News Tribune reported that heavy rain caused minor street flooding in the city. A Burgar King restaurant was also forced to close when the kitchen became flooded during the heavy rain. However, it was reported to be caused by a leak and not ground level water.

### Storm Data and Unusual Weather Phenomena

**Location**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
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GEORGIA, North and Central

Fannin County
Blue Ridge

<table>
<thead>
<tr>
<th>Date</th>
<th>Time EST</th>
<th>Persons Killed</th>
<th>Persons Injured</th>
<th>Damage</th>
<th>Character of Storm</th>
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The News Observer of Blue Ridge reported that lightning struck a home in Blue Ridge on Damascus Road. The lightning traveled through a copper water pipe to an adjacent electrical circuit. The electrical circuit was damaged and the entire house suffered light smoke damage from burning wires. At another residence, lightning struck a tree on Georgia Highway 5 in Blue Ridge. The tree was set on fire.

Fannin County

<table>
<thead>
<tr>
<th>Date</th>
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<th>Persons Injured</th>
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<th>Character of Storm</th>
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The Fannin county 911 center reported that two trees were blown down.

Bartow County
Adairsville

<table>
<thead>
<tr>
<th>Date</th>
<th>Time EST</th>
<th>Persons Killed</th>
<th>Persons Injured</th>
<th>Damage</th>
<th>Character of Storm</th>
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</table>

The Rome News Tribune reported that trees were blown down in the Adairsville area. Consequently, a number of residents in the northern part of the county endured a power outage.

Bartow County
Adairsville

<table>
<thead>
<tr>
<th>Date</th>
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<tr>
<td>05</td>
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<td>Urban/Sml Stream Fld</td>
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The Rome News Tribune reported minor street flooding in the Adairsville area.

Gordon County
Ranger

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<th>Time EST</th>
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<th>Damage</th>
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The Gordon county 911 center reported that some trees were blown down.

Whitfield County
Dalton

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<thead>
<tr>
<th>Date</th>
<th>Time EST</th>
<th>Persons Killed</th>
<th>Persons Injured</th>
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<td>0</td>
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<td>Thunderstorm Wind</td>
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The Whitfield county 911 center and the Dalton Daily Citizen reported that a number of large trees were blown down or uprooted in the city, causing damage to several homes. A number of power lines were also brought down. One large tree fell on a home, another residence lost several trees causing only minimal damage to a home, and at yet another residence one large tree was uprooted in the back yard and front yard each. At another location, several very large trees fell on and leveled a trailer home. Power outages affected homes and business for many hours, up to 18 hours at one location, causing several businesses to close their doors for a time.

Lamar County
Barnesville to 10 N Barnesville

<table>
<thead>
<tr>
<th>Date</th>
<th>Time EST</th>
<th>Persons Killed</th>
<th>Persons Injured</th>
<th>Damage</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>05</td>
<td>2030</td>
<td>0</td>
<td>0</td>
<td>2K</td>
<td>Thunderstorm Wind</td>
</tr>
</tbody>
</table>

The public reported that trees were blown down at two separate locations in the county. In one instance there appeared to be a path of destruction to the trees. Some shingles were also blown off the roof and some yard items, such as a plastic swimming pool and barbeque grill were missing.

Gwinnett County
Dacula

<table>
<thead>
<tr>
<th>Date</th>
<th>Time EST</th>
<th>Persons Killed</th>
<th>Persons Injured</th>
<th>Damage</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>06</td>
<td>1645</td>
<td>0</td>
<td>0</td>
<td>25K</td>
<td>Lightning</td>
</tr>
</tbody>
</table>

The Gwinnett Daily Post reported that lightning set on fire and caused considerable damage to the attic of a home. The residents were not at home at the time and no injuries were reported.

Whitfield County
Countywide

<table>
<thead>
<tr>
<th>Date</th>
<th>Time EST</th>
<th>Persons Killed</th>
<th>Persons Injured</th>
<th>Damage</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>06</td>
<td>1700</td>
<td>0</td>
<td>0</td>
<td>75K</td>
<td>Thunderstorm Wind</td>
</tr>
</tbody>
</table>

The Daily Citizen newspaper of Dalton reported that strong thunderstorms downed numerous trees and several power lines across the county. One home in Dalton sustained considerable damage as a large tree fell through the home essentially collapsing in one corner of the house. The majority of the downed trees and power lines were in the Beaverdale and Dawnville areas in the eastern portion of the county, with less damage in the Tunell Hill and Dalton areas. Approximately 1000 residents were without power for several hours, and about 100 residents remained without power well into the next day. Consequently, several businesses were forced to close for the next day. Power crews had difficulty restoring power to some locations because of tree debris blocking roads in some areas.

Murray County
Chatsworth to Carters

<table>
<thead>
<tr>
<th>Date</th>
<th>Time EST</th>
<th>Persons Killed</th>
<th>Persons Injured</th>
<th>Damage</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>06</td>
<td>1730</td>
<td>0</td>
<td>0</td>
<td>50K</td>
<td>Thunderstorm Wind</td>
</tr>
</tbody>
</table>

The Daily Citizen newspaper of Dalton reported that numerous trees and power lines were blown down across the southern portions of the county. In addition, a tree fell on a trailer home and a limb fell on a pickup truck on Georgia Highway 52. Approximately 1000 residences were left without power much of the evening and about 100 remained without power well into the next day. Consequently, several businesses were forced to close for the next day. Power crews had difficulty restoring power to some locations because of tree debris blocking roads.

Gwinnett County
Duluth

<table>
<thead>
<tr>
<th>Date</th>
<th>Time EST</th>
<th>Persons Killed</th>
<th>Persons Injured</th>
<th>Damage</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>06</td>
<td>1820</td>
<td>0</td>
<td>0</td>
<td>50K</td>
<td>Lightning</td>
</tr>
</tbody>
</table>
The Gwinnett Daily Post reported that lightning struck and caused considerable damage to the second floor of a home. No injuries were reported.

An amateur radio operator reported street flooding during a thunderstorm. The rainfall rate was reported to be at least 1 inch per hour at the time.

The Gwinnett Daily Post reported that lightning struck a home resulting in minor damage to the attic. Although the residents were home at the time, no injuries were reported. However, one firefighter was injured by falling debris and two others were injured when they fell through the ceiling.

The Bleckley county 911 center reported that lightning struck and set a tree on fire.

The Peach county 911 center reported that several roads were flooded as drainage ditches overflowed in the far northwest part of the county between Byron and the Crawford county border.

The Crawford county 911 center reported that several roads were under water and impassible in the rural southeastern part of the county near the Peach county border. Radar estimates indicated that over 6 inches of rain had fallen in this area in less than a six hour period of time.

The Coweta county 911 center reported that three to four trees were blown down, one which landed on a house and the other two on power lines.

The Houston county 911 center reported that several power lines were blown down in downtown Perry.

The public reported that several tree limbs were down on a road just west of La Grange.

The Troup county 911 center reported that three trees were blown down, one which landed on a house and the other two on power lines.

The Adairsville police department reported that several trees and some power lines were blown down.

The public reported dime size hail.

Several amateur radio operators and the public reported that hail, ranging in size from dimes to golf balls, fell from 10 to 12 minutes and accumulated up to four inches deep on the ground in some spots. The hail damaged several cars and roofs of homes. In addition, the hail stripped trees and damaged corn crops in the area.
Amateur radio operators reported that several tree limbs were blown down. 

**Muscogee County**

Columbus  
- **Date:** 25 June  
- **Time:** 1625EST  
- **Number of Persons:** 0  
- **Injured:** 0  
- **Estimated Damage:** Urban/Sml Stream Fld  
The Muscogee county 911 center reported that the 11th Street underpass was flooded from heavy rain during thunderstorms.

**Carroll County**

Villa Rica  
- **Date:** 27 June  
- **Time:** 1845EST  
- **Number of Persons:** 0  
- **Injured:** 0  
- **Estimated Damage:** Lightning  
The Carroll county Emergency Management Director reported that lightning struck a home causing minor damage as the lightning followed the electrical service line into the house as a conductive path.

**Paulding County**

Countywide  
- **Date:** 27 June  
- **Time:** 1925EST  
- **Number of Persons:** 0  
- **Injured:** 0  
- **Estimated Damage:** Thunderstorm Wind  
The Paulding county 911 center reported that several trees were down across the county.

**Troup County**

Hogansville  
- **Date:** 27 June  
- **Time:** 1930EST  
- **Number of Persons:** 0  
- **Injured:** 0  
- **Estimated Damage:** Thunderstorm Wind  
The public reported that thunderstorm winds caused roof and structural damage to a building, while the Troup county 911 center reported that three trees were blown down.

**Fannin County**

Blue Ridge  
- **Date:** 27 June  
- **Time:** 1940EST  
- **Number of Persons:** 0  
- **Injured:** 0  
- **Estimated Damage:** Thunderstorm Wind  
The Fannin county 911 center reported that two trees were blown down.

**Coweta County**

Sharpsburg  
- **Date:** 27 June  
- **Time:** 1945EST  
- **Number of Persons:** 0  
- **Injured:** 0  
- **Estimated Damage:** Tstm Wind/Hail  
An off duty National Weather Service employee reported that a single tree blew down during a thunderstorm wind gust landing on the house, a parked car, and simultaneously pulled down the power line into the house.

**Clayton County**

Jonesboro  
- **Date:** 27 June  
- **Time:** 1955EST  
- **Number of Persons:** 0  
- **Injured:** 0  
- **Estimated Damage:** Tstm Wind/Hail  
The public reported that a tree was blown down.

**Banks County**

Hollingsworth  
- **Date:** 29 June  
- **Time:** 1635EST  
- **Number of Persons:** 0  
- **Injured:** 0  
- **Estimated Damage:** Tstm Wind/Hail  
The Banks county 911 center reported pea size hail.

**Upson County**

Pickard to 10 W Atwater  
- **Date:** 30 June  
- **Time:** 1453EST  
- **Number of Persons:** 0  
- **Injured:** 0  
- **Estimated Damage:** Hail(0.75)  
The Upson county 911 center reported dime size hail.

**Washington County**

Sandersville  
- **Date:** 30 June  
- **Time:** 1525EST  
- **Number of Persons:** 0  
- **Injured:** 0  
- **Estimated Damage:** Thunderstorm Wind  
The Washington county 911 center reported that two trees were down.

**Houston County**

Warner Robins  
- **Date:** 30 June  
- **Time:** 1645EST  
- **Number of Persons:** 0  
- **Injured:** 0  
- **Estimated Damage:** Tstm Wind/Hail  
The public reported pea size hail.

**Troup County**

1 NE La Grange  
- **Date:** 30 June  
- **Time:** 1659EST  
- **Number of Persons:** 0  
- **Injured:** 0  
- **Estimated Damage:** Tstm Wind/Hail  
The Troup county 911 center reported pea size hail.

**Heard County**

Corinth  
- **Date:** 30 June  
- **Time:** 1730EST  
- **Number of Persons:** 0  
- **Injured:** 0  
- **Estimated Damage:** Hail(1.75)  
The Heard county 911 center reported golf ball size hail.

**Peach County**

Ft Vly  
- **Date:** 30 June  
- **Time:** 1730EST  
- **Number of Persons:** 0  
- **Injured:** 0  
- **Estimated Damage:** Hail(0.75)  
The Peach county 911 center reported dime size hail.
### GEORGIA, North and Central

**Peach County**
- **Ft Vly**
  - Time: 30 1730EST
  - Path Length: 0
  - Path Width: 0
  - Number of People Killed: 0
  - Number of People Injured: 0
  - Estimated Damage: 0.50K
  - Wind: Thunderstorm Wind
  - Remarks: The Peach county 911 center reported that a few trees had been blown down.

**Chattooga County**
- **SSW Holland**
  - Time: 30 1830EST
  - Path Length: 0
  - Path Width: 0
  - Number of People Killed: 0
  - Number of People Injured: 0
  - Estimated Damage: 0.50K
  - Wind: Thunderstorm Wind
  - Remarks: The Chattooga county 911 center reported that a few trees were blown down on Georgia Highway 100 at Sprite in the extreme southern part of the county.

**Gordon County**
- **Calhoun**
  - Time: 30 1830EST 1840EST
  - Path Length: 0
  - Path Width: 0
  - Number of People Killed: 0
  - Number of People Injured: 0
  - Estimated Damage: Hail(1.00)
  - Remarks: The Gordon county Emergency Manager reported dime to quarter size hail.

**Walker County**
- **La Fayette**
  - Time: 30 1949EST
  - Path Length: 0
  - Path Width: 0
  - Number of People Killed: 0
  - Number of People Injured: 2K
  - Estimated Damage: Thunderstorm Wind
  - Remarks: The Walker county 911 center reported that some power lines were blown down.

**Gwinnett County**
- **Lawrenceville**
  - Time: 30 2340EST
  - Path Length: 0
  - Path Width: 0
  - Number of People Killed: 0
  - Number of People Injured: 10K
  - Estimated Damage: Lightning
  - Remarks: The Gwinnett Daily Post Newspaper reported that lightning struck a two-story home. The lightning set a receptacle on fire in the basement. The fire was quickly put out, but caused minimal burn damage to one room in the basement. The remainder of the home suffered minor smoke damage. The homeowner was treated and released at a local hospital for smoke inhalation as he tried to fight the fire himself.

### GEORGIA, Northeast

**Rabun County**
- **Tiger**
  - Time: 04 1653EST
  - Path Length: 0
  - Path Width: 0
  - Number of People Killed: 0
  - Number of People Injured: 0
  - Estimated Damage: Hail(0.75)
  - Remarks: A few trees were blown down.

**Franklin County**
- **1 W Royston**
  - Time: 04 1835EST
  - Path Length: 0
  - Path Width: 0
  - Number of People Killed: 0
  - Number of People Injured: 0
  - Estimated Damage: Hail(1.00)

**Habersham County**
- **3 SW Baldwin to Demorest**
  - Time: 04 2005EST 2030EST
  - Path Length: 0
  - Path Width: 0
  - Number of People Killed: 0
  - Number of People Injured: 0
  - Estimated Damage: Hail(1.00)
  - Remarks: Several trees were blown down.

**Habersham County**
- **3 SW Baldwin to Demorest**
  - Time: 04 2005EST 2030EST
  - Path Length: 0
  - Path Width: 0
  - Number of People Killed: 0
  - Number of People Injured: 0
  - Estimated Damage: Thunderstorm Wind (G50)

**Hart County**
- **6 S Bowersville**
  - Time: 04 2255EST
  - Path Length: 0
  - Path Width: 0
  - Number of People Killed: 0
  - Number of People Injured: 0
  - Estimated Damage: Thunderstorm Wind (G50)
  - Remarks: Some trees were blown down.

**Franklin County**
- **Carneysville**
  - Time: 04 2300EST
  - Path Length: 0
  - Path Width: 0
  - Number of People Killed: 0
  - Number of People Injured: 0
  - Estimated Damage: Hail(0.75)

**Hart County**
- **5 E Hartwell**
  - Time: 04 2315EST
  - Path Length: 0
  - Path Width: 0
  - Number of People Killed: 0
  - Number of People Injured: 5K
  - Estimated Damage: Thunderstorm Wind (G50)
  - Remarks: A dock was damaged at Lake Hartwell. Several trees were also blown down.

**Elbert County**
- **Elberton**
  - Time: 04 2330EST
  - Path Length: 0
  - Path Width: 0
  - Number of People Killed: 0
  - Number of People Injured: 1K
  - Estimated Damage: Thunderstorm Wind (G50)
  - Remarks: Some trees and powerlines were blown down.
### GEORGIA, Northeast

Hart County

**Bowersville**
- **Date**: 29
- **Time**: 1835EST
- **Character of Storm**: Thunderstorm Wind (G50)
- **Path Length (Miles)**: 0
- **Path Width (Yards)**: 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: 0
- **Estimated Damage Property**: Thunderstorm Wind (G50)
- **Estimated Damage Crops**: Thunderstorm Wind (G50)

Several large tree limbs were blown down.

### GEORGIA, Southeast

**GAZ087>088-099>101-114>119-137>141**

Jenkins - Screven - Candler - Bulloch - Effingham - Tattnall - Evans - Inland Bryan - Coastal Bryan - Inland Chatham - Coastal Chatham - Long - Inland Liberty - Coastal Liberty - Inland Mcintosh - Coastal Mcintosh

Generally, moderate to severe drought conditions continued over much of southeast Georgia. Rainfall for the month was above normal at the Savannah Airport, but most of the rain fell on a few days in scattered thunderstorms. Therefore, the area remained well below the normal on rainfall for the first half of the year.

**Long County**

- **4 SW Donald**
  - **Date**: 03
  - **Time**: 1430EST
  - **Character of Storm**: Thunderstorm Wind (G50)
  - **Path Length (Miles)**: 0
  - **Path Width (Yards)**: 0
  - **Number of Persons Killed**: 0
  - **Number of Persons Injured**: 0

Several trees and large winds were blown down.

- **2 N Ludowici**
  - **Date**: 03
  - **Time**: 1520EST
  - **Character of Storm**: Thunderstorm Wind (G50)
  - **Path Length (Miles)**: 0
  - **Path Width (Yards)**: 0
  - **Number of Persons Killed**: 0
  - **Number of Persons Injured**: 0

Wind knocked down several trees and large limbs which also brought down some power lines.

- **Chatham County**
  - **Pooler**
    - **Date**: 07
    - **Time**: 1545EST
    - **Character of Storm**: Thunderstorm Wind (G50)
    - **Path Length (Miles)**: 0
    - **Path Width (Yards)**: 0
    - **Number of Persons Killed**: 0
    - **Number of Persons Injured**: 0

Several trees and limbs were down.

- **Liberty County**
  - **Midway**
    - **Date**: 28
    - **Time**: 1725EST
    - **Character of Storm**: Thunderstorm Wind (G50)
    - **Path Length (Miles)**: 0
    - **Path Width (Yards)**: 0
    - **Number of Persons Killed**: 0
    - **Number of Persons Injured**: 0

Numerous trees were downed by high thunderstorm winds.

- **Bulloch County**
  - **5 E Statesboro**
    - **Date**: 30
    - **Time**: 1615EST
    - **Character of Storm**: Thunderstorm Wind (G50)
    - **Path Length (Miles)**: 0
    - **Path Width (Yards)**: 0
    - **Number of Persons Killed**: 0
    - **Number of Persons Injured**: 0

Several large limbs and power lines were down.

- **Evans County**
  - **12 W Claxton**
    - **Date**: 30
    - **Time**: 1710EST
    - **Character of Storm**: Thunderstorm Wind (G50)
    - **Path Length (Miles)**: 0
    - **Path Width (Yards)**: 0
    - **Number of Persons Killed**: 0
    - **Number of Persons Injured**: 0

Several trees and large limbs were down.

- **Tattnall County**
  - **3 W Glennville**
    - **Date**: 30
    - **Time**: 1717EST
    - **Character of Storm**: Thunderstorm Wind (G50)
    - **Path Length (Miles)**: 0
    - **Path Width (Yards)**: 0
    - **Number of Persons Killed**: 0
    - **Number of Persons Injured**: 0

Several large limbs were downed along Georgia State Road # 144.

### GEORGIA, Southwest

**Ben Hill County**

- **1 SE Fitzgerald**
  - **Date**: 03
  - **Time**: 1915EST
  - **Character of Storm**: Thunderstorm Wind
  - **Path Length (Miles)**: 0
  - **Path Width (Yards)**: 0
  - **Number of Persons Killed**: 3K
  - **Number of Persons Injured**: 0

Trees and power lines down. Reported by the Ben Hill County Sheriff.

**Worth County**

- **5 W Sylvester**
  - **Date**: 03
  - **Time**: 2130EST
  - **Character of Storm**: Hail(0.75)
  - **Path Length (Miles)**: 0
  - **Path Width (Yards)**: 0
  - **Number of Persons Killed**: 0
  - **Number of Persons Injured**: 0

Dime size hail reported by the Worth County Sheriff.

**Quitman County**

- **5 S Georgetown**
  - **Date**: 04
  - **Time**: 1435EST
  - **Character of Storm**: Hail(0.88)
  - **Path Length (Miles)**: 0
  - **Path Width (Yards)**: 0
  - **Number of Persons Killed**: 0
  - **Number of Persons Injured**: 0

Nickel size hail fell on U.S. Highway 82. Reported by the Quitman County Sheriff.

**Terrell County**

- **Southwest Portion**
  - **Date**: 04
  - **Time**: 1609EST
  - **Character of Storm**: Thunderstorm Wind
  - **Path Length (Miles)**: 0
  - **Path Width (Yards)**: 0
  - **Number of Persons Killed**: 0
  - **Number of Persons Injured**: 0.50K

A few trees down between State Highways 45 and 55 southwest of Dawson. Reported by the Terrell County Sheriff.

**Grady County**

- **11 WSW Cairo**
  - **Date**: 04
  - **Time**: 1720EST
  - **Character of Storm**: Thunderstorm Wind
  - **Path Length (Miles)**: 0
  - **Path Width (Yards)**: 0
  - **Number of Persons Killed**: 0
  - **Number of Persons Injured**: 0.50K

A few downed trees reported by Decatur/Grady 911.
GEORGIA, Southwest

Decatur County

1 N Bainbridge 04 1730EST 0 0 0.50K Thunderstorm Wind
Several downed trees reported by Decatur/Grady 911.

Mitchell County

Northwest Portion 04 1830EST 0 0 1K Thunderstorm Wind
Several downed trees reported by the Mitchell County EMA.

Decatur County

Southeast Portion 04 1910EST 0 0 10K Thunderstorm Wind
A shed was destroyed. Reported by Decatur County Fire Rescue.

Lee County

Countywide 07 1800EST 0 0 5K Flood
Some rural and county roads were closed by floodwaters from four inches of rain in a two-hour period. Reported by the Lee County EMA.

Miller County

Mayhaw 14 1540EST 0 0 Hail(0.75)
Dime size hail reported by the Miller County EMA.

Miller County

Mayhaw 14 1540EST 0 0 0.50K Thunderstorm Wind
Several downed trees reported by the Miller County EMA.

Miller County

Colquitt 14 1550EST 0 0 Hail(0.75)
Dime size hail reported by the Miller County EMA.

Miller County

Colquitt 14 1550EST 0 0 0.50K Thunderstorm Wind
Several downed trees reported by the Miller County EMA.

Miller County

Southeast Portion 14 1600EST 0 0 1K Thunderstorm Wind
Numerous downed trees reported by the Miller County EMA.

Decatur County

2 NW Bainbridge 14 1612EST 0 0 2K Thunderstorm Wind
Several downed trees and power lines reported by the Decatur County Sheriff.

GULF OF MEXICO

GMZ54

W End Of The 7 Mile Bridge To Key W Out 20Nm 07 1820EST 0 0 Waterspout
Waterspout reported by storm spotter 1 mile south of Summerland Key in Kemp Channel.

GMZ555

Pascagoula Ms To Sw Pass Of Ms R Out 20Nm 08 1200CST 0 0 Waterspout
The Coast Guard reported a waterspout between Grand Island and Malheureux Point.

GMZ853

Englewood To Tarpon Springs Fl Out 20Nm 08 1430EST 0 0 Waterspout
Waterspout over Boca Ciega Bay moved onshore as a tornado damaging 40 homes causing $500,000 in damage.

GMZ850

Tarpon Springs To Suwannee River Fl Out 20Nm 08 1500EST 0 0 Marine Tstm Wind (G34)
Three children and five adults were dumped into the water after a wave capsized their 16 foot boat. All were rescued by a 22 foot boat.
## Storm Data and Unusual Weather Phenomena

### June 2002

#### GULF OF MEXICO

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>GMZ555 Pascagoula Ms To Sw Pass Of Ms R Out 20Nm 2 S Biloxi to I2 S Biloxi</td>
<td>08 1520CST</td>
<td>1555CST</td>
<td>0</td>
<td>0</td>
<td>Waterspout</td>
<td>Several waterspouts and funnel clouds were observed by the Coast Guard and Sheriffs Office from just offshore Biloxi and Gulfport to near Ship Island.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GMZ856 Bonita Beach To Englewood Fl Out 20Nm Charlotte Harbor</td>
<td>11 1647EST</td>
<td>1700EST</td>
<td>0</td>
<td>0</td>
<td>Waterspout</td>
<td>Waterspout moved onshore as a tornado 5 miles southwest of Port Charlotte.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GMZ630 Mobile Bay Point Clear</td>
<td>14 1455CST</td>
<td>1457CST</td>
<td>0</td>
<td>0</td>
<td>Marine Tstm Wind (G40)</td>
<td>A wind gust of 40 knots was reported near the Fairhope Pier.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GMZ655 Destin To Pensacola Fl Out 20Nm Pensacola Beach</td>
<td>14 1515CST</td>
<td>1516CST</td>
<td>0</td>
<td>0</td>
<td>Marine Tstm Wind (G35)</td>
<td>Marine Tstm Wind (G40)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GMZ650 Pensacola Fl To Pascagoula Ms Out 20Nm 10 S Perdido Key</td>
<td>14 1534CST</td>
<td>1537CST</td>
<td>0</td>
<td>0</td>
<td>Marine Tstm Wind (G40)</td>
<td>Marine Tstm Wind (G40)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GMZ670 Pensacola Fl To Pascagoula Ms 20 To 60Nm 30 S Gulf Shores</td>
<td>14 1718CST</td>
<td>1719CST</td>
<td>0</td>
<td>0</td>
<td>Marine Tstm Wind (G40)</td>
<td>Marine Tstm Wind (G40)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GMZ650 Pensacola Fl To Pascagoula Ms Out 20Nm 10 S Gulf Shores</td>
<td>14 1745CST</td>
<td>1747CST</td>
<td>0</td>
<td>0</td>
<td>Marine Tstm Wind (G40)</td>
<td>Marine Tstm Wind (G40)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GMZ856 Bonita Beach To Englewood Fl Out 20Nm Bonita Beach</td>
<td>14 1748EST</td>
<td>1748EST</td>
<td>0</td>
<td>0</td>
<td>Marine Tstm Wind (G40)</td>
<td>Coast Guard reported sustained wind at 35 knots with gusts to 40 knots near Fort Myers Beach.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GMZ54 W End Of The 7 Mile Bridge To Key W Out 20Nm 6 SW Key West</td>
<td>15 1154EST</td>
<td>1154EST</td>
<td>0</td>
<td>0</td>
<td>Marine Tstm Wind (G34)</td>
<td>Wind gust 39 mph recorded at Sand Key CMAN.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GMZ54 W End Of The 7 Mile Bridge To Key W Out 20Nm Key West</td>
<td>15 1157EST</td>
<td>1157EST</td>
<td>0</td>
<td>0</td>
<td>Marine Tstm Wind (G41)</td>
<td>Wind gust 47 mph recorded at Key West International Airport.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>GMZ54 W End Of The 7 Mile Bridge To Key W Out 20Nm 6 SW Key West</td>
<td>15 1221EST</td>
<td>1221EST</td>
<td>0</td>
<td>0</td>
<td>Marine Tstm Wind (G40)</td>
<td>Wind gust 46 mph recorded at Sand Key CMAN.</td>
<td></td>
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</tr>
<tr>
<td>GMZ53 Craig Key To The W End Of The 7 Mile Bridge Out 20Nm 5 S Marathon</td>
<td>15 1326EST</td>
<td>1326EST</td>
<td>0</td>
<td>0</td>
<td>Marine Tstm Wind (G41)</td>
<td>Wind gust 47 mph recorded at Sombrero Key CMAN.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GMZ335 Galveston Bay 13 N Texas City</td>
<td>16 0555CST</td>
<td>0555CST</td>
<td>0</td>
<td>0</td>
<td>Marine Tstm Wind (G55)</td>
<td>Measured at Mogans Point by PORTS.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GMZ350 Freeport To Matagorda Ship Chnl Out 20Nm 17 W Matagorda</td>
<td>16 0645CST</td>
<td>0645CST</td>
<td>0</td>
<td>0</td>
<td>Marine Tstm Wind (G39)</td>
<td>Measured at PSX.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GMZ355 High Is To Freeport Tx Out 20Nm 1 S Galveston</td>
<td>16 0645CST</td>
<td>0645CST</td>
<td>0</td>
<td>0</td>
<td>Marine Tstm Wind (G44)</td>
<td>Measured at North Jetty by PORTS. 43 knots measured at Jamaica Beach.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GMZ53 Craig Key To The W End Of The 7 Mile Bridge Out 20Nm 4 S Marathon</td>
<td>16 2324EST</td>
<td>2324EST</td>
<td>0</td>
<td>0</td>
<td>Marine Tstm Wind (G44)</td>
<td>Wind gust to 51 mph recorded at Sombrero Key CMAN.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GMZ31 Florida Bay 7 NE Duck Key</td>
<td>17 0004EST</td>
<td>0004EST</td>
<td>0</td>
<td>0</td>
<td>Marine Tstm Wind (G38)</td>
<td></td>
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</tr>
</tbody>
</table>
## Storm Data and Unusual Weather Phenomena

**Location** | **Date** | **Time** | **Path Length (Miles)** | **Path Width (Yards)** | **Number of Persons Killed** | **Injured** | **Estimated Damage** | **Property** | **Crops** | **Character of Storm** |
---|---|---|---|---|---|---|---|---|---|---|
**GULF OF MEXICO** | | | | | | | | | | |

**GMZ31**
- **Florida Bay**
- **Flamingo**
- **Wind gust 44 mph recorded at Long Key CMAN.**
- **Wind gust 52 mph recorded at Flamingo HANDAR.**

**GMZ550**
- **Sw Pass Of The Ms R To Atchafalaya R La Out 20Nm**
- **20 S Venice**
- **0401CST**
- **Marine Tstm Wind (G52)**

**GMZ830**
- **Tampa Bay**
- **Old Tampa Bay**
- **171112EST**
- **Marine Tstm Wind (G35)**

**GMZ853**
- **Englewood To Tarpon Springs Fl Out 20Nm**
- **Longboat Key**
- **171735EST 1740EST**
- **Waterspout moved onshore then dissipated quickly causing no damage.**

**GMZ830**
- **Tampa Bay**
- **Lower Tampa Bay to Old Tampa Bay**
- **0740EST**
- **Waterspout**

**GMZ54**
- **W End Of The 7 Mile Bridge To Key W Out 20Nm**
- **3 SE Big Pine Key**
- **0856EST**
- **Waterspout reported 3 miles southeast of Big Pine Key by NWS employee and Bahia Honda State Park personnel.**

**GMZ53**
- **Craig Key To The W End Of The 7 Mile Bridge Out 20Nm**
- **5 S Marathon**
- **0846EST**
- **Wind gust 41 mph recorded at Sombrero Key CMAN.**

**GMZ75**
- **Key W To Dry Tortugas Waters**
- **3 SW Boca Grande**
- **Waterspout**

**GMZ630**
- **Mobile Bay**
- **Alabama Port**
- **0856EST**
- **Marine Tstm Wind (G35)**

**GMZ52**
- **Ocean Reef To Craig Key Fl Out 20Nm**
- **7 S Key Largo**
- **0645EST**
- **Wind gust 39 mph recorded by Molasses Reef CMAN.**

**GMZ856**
- **Bonita Beach To Englewood Fl Out 20Nm**
- **San Carlos Bay**
- **1641EST 1655EST**
- **Waterspout**

**GMZ530**
- **Lake Ponchartrain And Lake Maurepas**
- **Mid Lke Pontchartrain**
- **2015CST**
- **Marine Tstm Wind (G34)**

**GMZ335**
- **Galveston Bay**
- **2 E Texas City**
- **1230CST**
- **Waterspout**

**GMZ650**
- **Pensacola Fl To Pascagoula Ms Out 20Nm**
- **10 S Gulf Shores**
- **1800CST 1802CST**
- **Marine Tstm Wind (G40)**

**GMZ655**
- **Destin To Pensacola Fl Out 20Nm**
- **Pensacola Beach**
- **0635CST 0638CST**
- **A waterspout was reported just offshore of Fort Pickens. The waterspout dissipated over the Gulf.**

**GMZ650**
- **Pensacola Fl To Pascagoula Ms Out 20Nm**
- **10 E Gulf Shores**
- **0715CST 0720CST**
- **A waterspout was reported over the Gulf of Mexico just southwest of Perdido Key. The waterspout dissipated over the open water.**

**GMZ555**
- **Pascagoula Ms To Sw Pass Of Ms R Out 20Nm**
- **10 S Biloxi**
- **1438CST**
- **Marine Tstm Wind (G44)**

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June 2002

52
GULF OF MEXICO

GMZ555 Pascagoula Ms To Sw Pass Of Ms R Out 20Nm
10 S Biloxi
26 0026 1452CST 0 0 Marine Tstm Wind (G36)

GMZ670 Pensacola Fl To Pascagoula Ms 20 To 60Nm
30 S Dauphin Island
26 0026 1520CST 1524CST 1520CST 0 0 Marine Tstm Wind (G40)

GMZ630 Mobile Bay
Point Clear
26 1615CST 1620CST 0 0 Marine Tstm Wind (G40)

GMZ575 Pascagoula Ms To Sw Pass Of Ms R 20 To 60Nm
45 E Venice
26 0026 1730CST 0 0 Marine Tstm Wind (G34)

GMZ550 Sw Pass Of The Ms R To Atchafalaya R La Out 20Nm
Grand Isle
27 1834CST 0 0 Marine Tstm Wind (G37)

GMZ830 Tampa Bay
Lower Tampa Bay
28 1841EST 1855EST 0 0 Marine Tstm Wind (G37)

GMZ853 Englewood To Tarpon Springs Fl Out 20Nm
St Petersburg Beach
28 1855EST 1905EST 0 0 Marine Tstm Wind (G40)

GMZ250 Pt Aransas To Baffin Bay Tx Out 20Nm
Port Aransas
28 2318CST 0 0 Marine Tstm Wind (G60)

GMZ370 Freeport To Matagorda Ship Chnl 20 To 60Nm
60 S Freeport
29 0000CST 1000CST 0 0 Marine Tstm Wind (G37)

GMZ335 Galveston Bay
25 SW Texas City
29 1241CST 0 0 Marine Tstm Wind (G37)

GMZ630 Mobile Bay
3 W Point Clear
29 1620CST 1625CST 0 0 Marine Tstm Wind (G40)

GMZ650 Pensacola Fl To Pascagoula Ms Out 20Nm
3 S Dauphin Island
29 1655CST 1657CST 0 0 Marine Tstm Wind (G40)

HAWAII

Hawaii County
9 SSE Volcano
01 0000HST 0000HST 0000HST 0 0 Wild/Forest Fire
21 1700HST 1700HST 1700HST

The Kupukupu fire, named for the exotic fern that helped fuel the blaze, blackened about 3660 acres in the Holei Pali area of the Big Island of Hawaii. However, there were no serious injuries or property damage. The fire burned from May 17th through June 21st in Hawaii Volcanoes National Park. It was difficult to extinguish because of its remote location and because molten lava from Kilauea Volcano was acting as a continuous ignition source.

More than 140 federal firefighters battled the wildfire, with 80 of those from Arizona and California. Five charter and two Army helicopters assisted in battling the blaze with water drops. The national park's fire management officer estimated that firefighting costs would top $1.5 million

HIZ001-004-008 Kauai - North And East Hawaii Including Windward Kohala / Hamakua / Hilo / Puna - South Hawaii Including Kau
01 1600HST 1600HST 1600HST 0 0 High Surf
02 1600HST 1600HST

A storm low far south of the equator caused surf of 6 to 12 feet along the south-facing shores of Kauai and the Big Island of Hawaii. No serious injuries or property damage were reported.
A trade wind swell produced surf of 6 to 10 feet along the east-facing shores of Kauai and the island of Hawaii. There were no reports of serious injuries or property damage.

A storm low east of New Zealand generated surf of 6 to 12 feet along the south-facing shores of all the Hawaiian Islands. One man drowned at about 12:20 PM HST on June 13th near Koko Kai Beach Park south of Portlock on Oahu's southeast coast after being swept out to sea by high surf. Two women near the same area were rescued by lifeguards that day as well, with one of them almost drowning and being taken to Straub Hospital for treatment and observation. There were no reports of serious property damage.

A powerful, late season snow storm brought heavy wet snow to the region, mainly for elevations above 4000 feet. Snow was reported as low as 3000 feet early Saturday. Total amounts ranged from 6 inches at Grangeville, to 8 inches at Hemlock Butte. A strong surface pressure gradient and microbursts associated with convective showers brought strong winds to the area. The Salmon Airport observation and the Kriley Creek RAWS both reports wind gusts to 51 mph.

A slow moving thunderstorm dropped heavy rain south of Lolo Pass, near the town of Powell. A damage survey reported a culvert wash out and evidence of overland flooding. Rainfall estimates were over 2 inches with this storm.

The Saint Joe River at Saint Maries was already above its flood stage of 32.5 feet as the month of June began. The river had already crested at 34.3 feet on May 31. The river fell below its flood stage of 32.5 feet on June 7. This was considered a minor lowland flood with no structural damage.

Moisture wrapping around the north side of an upper level low pressure center south of Lewiston brought an unusually late heavy snow to the mountains of the central and northern Idaho panhandle at and above 5000 feet. Snowfall amounts with this storm include: Bear Mountain SNOTEL...14", Lost Lake SNOTEL...6", Sunset SNOTEL...6", Mosquito Ridge SNOTEL...6", Lookout SNOTEL...4", and Mica Creek SNOTEL...4".

Storm Data and Unusual Weather Phenomena

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<th>Path Length</th>
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<th>Number of Persons</th>
<th>Estimated Damage Property</th>
<th>Character of Storm</th>
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HAWAII

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<th>HIZ001-004-008</th>
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<th>10</th>
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IDAHO, Extreme Southeast

NONE REPORTED.

IDAHO, North

IDZ005>008 | Northern Clearwater Mountains - Southern Clearwater Mountains - Orofino / Grangeville Region - Lower Hells Canyon / Salmon River Region | 08 | 0800MST | 2200MST | 0 | 0 | Heavy Snow |
<table>
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IDZ010 | Eastern Lemhi County | 18 | 1400MST | 1500MST | 0 | 0 | High Wind (G45) |
<table>
<thead>
<tr>
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Idaho County

East Central Portion | 22 | 1800MST | 1900MST | 0 | 0 | Flash Flood |
<table>
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IDAHO, Northwest

IDZ004 | Central Panhandle Mountains | 01 | 0000PST | 07 | 1945PST | 0 | 0 | Flood |
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</table>

IDZ001-004 | Northern Panhandle - Central Panhandle Mountains | 08 | 1200PST | 09 | 0300PST | 0 | 0 | Heavy Snow |
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</table>
### Storm Data and Unusual Weather Phenomena

#### IDAHO, Southeast

**Jefferson County**

1. **SW Roberts to 2 NE Roberts**
   - Date: 01 June 2002
   - Time: 1507MST, 1515MST
   - Path Length: 2.5 miles
   - Path Width: 70 yards
   - Number of Persons: 0
   - Number of Injured: 0
   - Park Damage: 60K
   - Character of Storm: Tornado (F1)

   A tornado touched down just southwest of Roberts at 407 PM MDT near interstate 15 at exit 135. The tornado moved northeast through the town of Roberts damaging roofs, mobile homes, automobiles and downing large trees and utility poles. The damage path was between 25 and 75 yards wide and the tornado was on the ground for approximately 2.5 miles. A damage survey team estimated the tornado to be an F1 on the Fujita scale.

**IDZ019-023**

Upper Snake Highlands - Caribou Highlands
- Date: 09 June 2002
- Time: 001MST, 0001MST
- Path Length: 0 miles
- Path Width: 0 yards
- Number of Persons: 0
- Number of Injured: 0
- Property Damage: Heavy Snow

A strong cold front brought heavy snow very late in the season to the Eastern Highlands of Idaho. 6 to 8 inches of snow fell in a swath from 2 to 10 miles north of Soda Springs, 6 inches fell in Wayan and 6 inches also fell 12 miles east of Driggs.

**Bonneville County**

1. **Idaho Falls**
   - Date: 15 June 2002
   - Time: 1615MST, 1620MST
   - Path Length: 0 miles
   - Path Width: 0 yards
   - Number of Persons: 0
   - Number of Injured: 0
   - Property Damage: Thunderstorm Wind (G50)

   A shed was blown onto interstate 15 near exit 113.

**Bonneville County**

4. **4 SW Idaho Falls**
   - Date: 15 June 2002
   - Time: 1620MST, 1625MST
   - Path Length: 0 miles
   - Path Width: 0 yards
   - Number of Persons: 0
   - Number of Injured: 0
   - Property Damage: Thunderstorm Wind (G50)

   1.5 inch tree branches snapped off trees.

**Bonneville County**

Ammon
- Date: 26 June 2002
- Time: 1820MST, 1840MST
- Path Length: 0 miles
- Path Width: 0 yards
- Number of Persons: 0
- Number of Injured: 0
- Property Damage: Thunderstorm Wind (G55)

Trees downed with roof torn off one house and power outages widespread in the town of Ammon.

#### IDAHO, Southwest

**Valley County**

10 E Warm Lake
- Date: 21 June 2002
- Time: 1600MST, 1630MST
- Path Length: 0 miles
- Path Width: 0 yards
- Number of Persons: 0
- Number of Injured: 0
- Property Damage: Hail (1.00)

**Boise County**

3 E Banks to 15 E Banks
- Date: 21 June 2002
- Time: 1615MST, 2000MST
- Path Length: 0 miles
- Path Width: 0 yards
- Number of Persons: 0
- Number of Injured: 0
- Property Damage: Flash Flood

Slow-moving thunderstorms intensified over the West Central Mountains dropping 1 inch diameter hail at the Landmark campgrounds, ten miles east of Warm Lake. Radar precipitation estimates of 3 to 4 inches of rain in 90 minutes were recorded near the Boise-Valley County line. Mudslides occurred on Highway 17, closing the road for several hours overnight. Mudslides also occurred at Kirkum campground near Lowman.

**Twin Falls County**

Twin Falls Arpt to 4 W Twin Falls
- Date: 26 June 2002
- Time: 1458MST, 1615MST
- Path Length: 0 miles
- Path Width: 0 yards
- Number of Persons: 0
- Number of Injured: 0
- Property Damage: Thunderstorm Wind (G53) M

**Jerome County**

Jerome Co Arpt
- Date: 26 June 2002
- Time: 1515MST, 1530MST
- Path Length: 0 miles
- Path Width: 0 yards
- Number of Persons: 0
- Number of Injured: 0
- Property Damage: Thunderstorm Wind (G54) M

**Owyhee County**

30 ESE Bruneau
- Date: 26 June 2002
- Time: 1530MST
- Path Length: 0 miles
- Path Width: 0 yards
- Number of Persons: 0
- Number of Injured: 0
- Property Damage: Thunderstorm Wind (G53) M

The airmass over Southwest Idaho was extremely warm and unstable, but moisture was limited as afternoon thunderstorms erupted. Dry thunderstorms produced outflow winds over 60 mph measured at the Twin Falls Airport, Jerome County Airport and at Twin Buttes RAWS observation site in northeast Owyhee County. Trees were blown down and irrigation equipment was damaged south of Twin Falls.

**Elmore County**

Glenns Ferry to Mountain Home
- Date: 26 June 2002
- Time: 1550MST, 1630MST
- Path Length: 0 miles
- Path Width: 0 yards
- Number of Persons: 0
- Number of Injured: 0
- Property Damage: Thunderstorm Wind (G52)

**Gooding County**

Gooding
- Date: 26 June 2002
- Time: 1550MST, 1630MST
- Path Length: 0 miles
- Path Width: 0 yards
- Number of Persons: 0
- Number of Injured: 0
- Property Damage: Thunderstorm Wind (G52)

Numerous thunderstorms developed across Gooding and Elmore Counties and moved northwest into Ada County on the afternoon of June 26th. Gooding County Sheriff's Office reported several trees and power lines down in Gooding. Elmore County Sheriff's Office
IDAHO, Southwest

reported several trees and power lines down in the Glens Ferry and Mountain Home areas. The storm cell that caused damage in the Mountain Home area crossed into Ada County near the Boise Stage Stop where the highest wind gusts were measured at 46 mph.

Canyon County
Parma

27 1840MST 1915MST 0 0 Thunderstorm Wind (G52)
An area of thunderstorms intensified as it moved northward from northwest Owyhee County into Canyon County. A utility pole was blown down in Parma, taking down power lines.

Washington County
2 E Weiser to 10 NE Weiser

27 1950MST 2010MST 0 0 30K Thunderstorm Wind (G60)
On the evening of June 27th, thunderstorm winds toppled numerous trees and caused structural damage to several outbuildings and to six houses in Weiser, Idaho. A National Weather Service storm survey estimated wind speeds between 60 and 90 mph.

ILLINOIS, Central

Fulton - Schuyler - Mason - Cass - Scott - Morgan

01 0000CST 0 0 Flood
08 0700CST

The major river flooding continued into June along the lower portions of the Illinois River. The river flooding finally subsided on the 8th of June.

Menard County
2 N Petersburg to 2 W Greenview

01 0944CST 0947CST 0 0 Hail(0.75)

Marshall County
Henry to Lacon

04 1315CST 1320CST 0 0 Thunderstorm Wind (G50)
Numerous tree limbs were blown down as well as a couple of large trees.

Stark County
1 NW Toulon

04 1330CST 0 0 Thunderstorm Wind (G50)
Several large trees were blown down.

Marshall County
Varna

04 1355CST 0 0 Hail(0.88)

Knox County
1 N Gilson

04 1430CST 1530CST 0 0 Flash Flood

Eight inches of water was flowing over Illinois Route 97 north of Gilson due to heavy rains in the area.

Fulton County
Fairview

04 1524CST 0 0 Hail(0.75)

Peoria County
1 W Bartonville

04 1609CST 0 0 Hail(2.00)

Tazewell County
Countywide

04 1618CST 1645CST 0 0 Thunderstorm Wind (G55)
Numerous limbs and several trees were blown down countywide, especially in the Washington area.

Woodford County
Metamora

04 1640CST 0 0 Thunderstorm Wind (G55)
Several large tree limbs were blown down around town.

McLean County
Danvers

04 1652CST 0 0 Hail(0.75)

Woodford County
1 S El Paso

04 1659CST 0 0 Hail(0.88)
### Storm Data and Unusual Weather Phenomena

**Location** | **Date/Time** | **Character of Storm**
---|---|---
**ILLINOIS, Central**
**Sangamon County**
Mechanicsburg | 04/04/1745 CST | Thunderstorm Wind (G50)
A large tree was blown over onto a house causing moderate damage. No injuries were reported.

**Champaign County**
Urbana | 04/04/1756 CST | Hail (0.88)

**Scott County**
2 S Alsey | 04/04/1800 CST 1845 CST | Flash Flood
One foot of water was flowing over Illinois Route 106 two miles south of Alsey due to heavy rains.

**Vermilion County**
Danville | 04/04/1855 CST 1900 CST | Thunderstorm Wind (G50)
Several trees were blown down in town, as well as tree limbs.

**Cumberland County**
Toledo to Union Center | 04/04/1905 CST 1925 CST | Thunderstorm Wind (G55)
Several large trees were blown down as well as power lines and tree limbs. Also, northeast of Greenup a barn was destroyed. No injuries were reported.

**Clark County**
Casey to Martinsville | 04/04/1930 CST 1956 CST | Thunderstorm Wind (G55)
Several trees and tree limbs were blown down. One fallen limb in Martinsville pulled power lines down. Three miles north of Casey, part of the roof of a hog containment building was blown off.

**Clark County**
Casey | 04/04/1935 CST | Hail (0.75)

**De Witt County**
7 ENE Wapella | 05/05/0345 CST 0445 CST | Flash Flood
Several roads had over 6 inches of water flowing over them after heavy rains fell in a short amount of time.

**Fulton County**
East Portion | 11/05/1320 CST 1500 CST | Flash Flood
Several roads were covered with water for a brief time due to heavy rains. US Route 136 east of Table Grove, US Route 24 at the Fulton/Schuyler county line and Illinois Route 9 north of Checkrow were flooded.

**Schuyler County**
North Portion | 11/05/1420 CST 1600 CST | Flash Flood
Several roads were covered with water due to heavy rains, including US Route 24 at the Fulton/Schuyler county line and US Route 67 between Littleton and Rushville.

**Scott County**
Winchester | 11/05/1433 CST | Thunderstorm Wind (G50)
Thunderstorm winds blew down several power lines in town.

**Morgan County**
1 W Murrayville | 11/05/1439 CST 1440 CST | Tornado (F0)
An Illinois State Trooper saw a tornado briefly touch down in a field west of Murrayville. No injuries or damage were reported.

**Piatt County**
1 N Bement | 11/05/1500 CST | Thunderstorm Wind (G50)
Several trees were blown down north of Bement.

**Sangamon County**
West Portion | 11/05/1500 CST 1600 CST | Flash Flood
Several roads were flooded due to heavy rains, including Old Jacksonville Road at Farmingdale Road

**Morgan County**
North Portion | 11/05/1530 CST 1630 CST | Flash Flood
Several roads had water over them due to heavy rains, especially Illinois Route 78 north of Jacksonville and Old Route 36 near Jacksonville.

Several roads were flooded due to heavy rains, including County Road 24 northwest of Edinburg, Illinois Route 48 near Taylorville, and Illinois Route 29 south of Lake Taylorville.

Numerous trees, tree limbs, power poles and power lines were blown down. Some homes in Effingham sustained siding damage and a small shed was destroyed by a fallen tree. The roof of the junior high school in Teutopolis sustained minor damage. Also, a semi was blown over on southbound I-57 in Effingham. The driver sustained minor injuries.

A tornado touched down 4 miles southeast of Neoga. It damaged the roof of a house in this location. It then travelled to the east blowing down numerous trees. Before lifting and dissipating it caused minor damage to the roof of a mobile home. No injuries were reported.

Several trees and large tree limbs were blown down in the Newton area. Also, a couple of roofs sustained minor damage due to the fallen trees and tree limbs.

Due to heavy rains in the area, Wolf Run Creek rapidly rose causing flooding in Bluffs. One home had a basement wall cave in and numerous others had water in their basements. One unoccupied car was flooded and destroyed. A set of railroad tracks in town had the soil washed out from underneath them and they had to be repaired. Also, Illinois Route 100 had large amounts of mud and debris washed over it near Oxville and in Bluffs. No injuries were reported.

Up to 4 inches of rain fell in an area from Galesburg to Dahinda to Williamsfield. Numerous roads were flooded including the intersection of Illinois Route 41 and Illinois Route 116, Illinois Route 180 north of Williamsfield, as well as, rural roads.

Thunderstorm winds blew down numerous trees, tree limbs and power lines countywide. The hardest hit areas were around Smithfield, Cuba and Lewistown. One home sustained moderate roof damage due to a fallen tree. No injuries were reported.

A tornado touched down 1.2 miles northwest of Smithfield at the west end of Stevens Road in a field. The tornado then briefly lifted before touching down once again in a field near Old Miller Lane. An unoccupied 15 foot travel trailer was picked up and destroyed. The tornado then lifted and dissipated. No injuries were reported.

Two power poles were blown down across US Highway 136.
### Storm Data and Unusual Weather Phenomena

**June 2002**

<table>
<thead>
<tr>
<th>Location</th>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
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<td>Road flooding persisted for a while even though the rain had tapered off.</td>
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<td>Due to heavy rains, numerous roads were flooded including the intersection of Illinois Route 125 and Illinois Route 97. Also, I-72 was flooded at the interchange with Illinois Route 4. Some flooding was reported in Farmingdale and Salisbury. Some basements in Pawnee were flooded.</td>
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<td>Due to heavy rains, numerous roads around the Alsey and Manchester areas were flooded, including the Illinois Route 267 viaduct in Manchester.</td>
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<td>Numerous roads were flooded countywide, especially along Illinois Route 16 and Illinois Route 128 near Shelbyville</td>
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<td>Heavy rains caused flooding of numerous roads countywide, including Illinois Route 16 near Pana, Illinois Route 48 and Illinois Route 29. Numerous basements in the Pana area were flooded.</td>
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<td>Heavy rains caused numerous roads to become flooded, including portions of Illinois Route 95, Illinois Route 41 and US Route 24.</td>
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<td>US Route 67 north of Rushville was briefly flooded due to heavy rains.</td>
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<td>Numerous rural roads were flooded due to heavy rains.</td>
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<td>Several roads countywide were briefly flooded due to heavy rains.</td>
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<tr>
<td>Coles County</td>
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<td>Hail(0.75)</td>
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<td>Ivesdale</td>
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<td>A 16 inch diameter tree was snapped off due to thunderstorm winds.</td>
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<td>Chapin</td>
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<td>Several trees were blown down, as well as a power pole. One of the fallen trees caused minor roof damage to a home.</td>
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<td>Logan County</td>
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<td>A large tree was blown down across Illinois Route 10 near Burton View.</td>
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<td>Hail(0.75)</td>
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<tr>
<td>Lacon</td>
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<td>A roof of a building sustained minor damage and several trees were blown down.</td>
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<tr>
<td>Marshall County</td>
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<td>Thunderstorm Wind (G50)</td>
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<tr>
<td>1 S Lacon</td>
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</tbody>
</table>
ILLINOIS, Central

Stark County
5 W Bradford to 2.5 SW Bradford
25 1740CST 1745CST 0 0 Thunderstorm Wind (G50)
A large tree was blown down on Illinois Route 93, as well as several small trees. A couple of power lines were blown down on the Castleton Blacktop southwest of Bradford.

Peoria County
Monica
25 1825CST 0 0 Thunderstorm Wind (G50)
A tree was blown over onto Illinois Route 90.

Woodford County
Metamora to Roanoke
25 1834CST 1900CST 0 0 Thunderstorm Wind (G50)
Several trees, tree limbs and power lines were blown down. A small shed was destroyed in Roanoke.

Woodford County
Minonk
26 0030CST 0035CST 0 0 Flash Flood
Almost 5 inches of rain fell in Minonk in a short amount of time. It caused numerous streets and basements in town to be flooded. No injuries were reported.

Jasper County
St Marie
27 1420CST 0 0 Hail(1.00)
Jasper County
St Marie
27 1420CST 0 0 Thunderstorm Wind (G50)
Several large trees were blown over and minor siding damage occurred on a couple of homes.

ILLINOIS, Northeast

Lake County
Buffalo Grove
03 1600CST 1 1 Lightning
Two men were struck by lightning on a ball field in Buffalo Grove. One man survived, but the second man died from his injuries two days later. M47BF

Winnebago County
Rockford
03 1810CST 0 0 Hail(0.75)
Lee County
Countywide
03 1840CST 1900CST 0 0 Thunderstorm Wind (G50)
De Kalb County
De Kalb
03 1856CST 1858CST 0 0 Thunderstorm Wind (G52)
De Kalb County
De Kalb
03 1900CST 2100CST 0 0 Urban/Sml Stream Fld
Kane County
Aurora
03 1910CST 1919CST 0 0 Thunderstorm Wind (G51)
Du Page County
Darien
03 2005CST 0 0 Hail(0.88)
A line of severe thunderstorms moved across northern Illinois during the evening hours of June 3rd. The thunderstorms blew down trees and power lines across much of Lee county. A two foot diameter tree was blown down in De Kalb in Dekalb county and trees were blown down in Aurora in Kane county. On the west side of De Kalb in Dekalb county, several streets had minor flooding due to heavy rainfall.

Lee County
Countywide
04 0200CST 0700CST 0 0 Flash Flood
Ogle County
Countywide
04 0200CST 0700CST 0 0 Flash Flood
Very heavy rain began falling early in the morning on June 4th and by dawn, significant flooding was widespread across north central Illinois. Several roads were closed as flood waters flowed across them for hours. Though no roads were reported washed out, shoulders of some roads were washed out. Cars became stranded in flood waters and three families had to be rescued from flood waters in Ogle county. Rivers, streams and creeks quickly flowed over their banks flooding basements, parking lots, parks and farmland. Some storm total rainfall amounts include 6.46 inches in Dixon, 5.50 inches in Paw Paw, and 4.74 inches in Amboy, all in Lee county; 6.04 inches at Rockford Airport in Winnebago county; 5.21 inches in Polo, 5.14 inches in Lindenwood, and 4.34 inches in Rochelle, all in Ogle county; and 2.45 inches in Mendota in La Salle county.

Although the worst flooding occurred across north central Illinois, minor flooding was reported across all of northern Illinois through early afternoon on June 4th. Most flooding was due to streams, creeks and drainage ditches overflowing their banks with some road flooding also reported. Some additional rainfall reports include 5.31 inches in Belvidere in Boone county; 4.68 inches in De Kalb in Dekalb county; 4.46 inches in Elgin in Kane county; 3.78 inches in Barrington in Cook county, 3.58 inches in Crystal Lake in McHenry county and 2.85 inches in Plano in Kendall county.

Severe thunderstorms developed over northern Illinois during the early afternoon hours of June 4th and moved southeast. Numerous trees, large limbs, and power lines were blown down, in addition to a few reports of large hail. One thunderstorm moved east across northern Livingston county and produced a tornado near Ancona. The same thunderstorm produced a second tornado near Manville. Both tornadoes were weak (F0) and touched down in fields, with no damage or injuries reported from either tornado. Outflow from these thunderstorms destroyed four farm buildings near Ashkum in Iroquois county.

Two farm buildings near Sheldon were damaged.
During the afternoon hours of June 10th, pulse thunderstorms developed in a moist and unstable atmosphere. An approaching shortwave along with low level winds of 35 knots, allowed these thunderstorms to produce wet microbursts. Some of these microbursts produced significant wind damage. In Hampshire in Kane county, a semi truck and a few cars were blown off route 20, 3/8 of mile west of Big Timber road. Trees and power lines were also blown down. During the evening hours, dozens of large trees and power lines were blown down in Wheaton in DuPage county where winds were estimated at 65 to 70 mph. In addition to the strong winds, heavy rain produced minor street flooding across parts of Chicago and Cook county.

During the afternoon hours of June 25th, pulse thunderstorms produced large hail, heavy rainfall, and minor flooding across parts of northern Illinois on June 25th. A postal carrier was struck by lightning in Joliet, in Will county. Fire officials believe the lightning bolt struck a utility pole one block away from where the postal carrier was and traveled underground where it was conducted by a metal mailbox. The postal carrier received only minor injuries.

Pulse thunderstorms produced large hail, heavy rainfall, and minor flooding across parts of northern Illinois on June 25th. A postal carrier was struck by lightning in Joliet, in Will county. Fire officials believe the lightning bolt struck a utility pole one block away from where the postal carrier was and traveled underground where it was conducted by a metal mailbox. The postal carrier received only minor injuries.

Heavy rainfall during the early morning hours of June 27th caused flooding on many rural roads in western Livingston county and many of the roads had to be closed. Pontiac had a storm total rainfall of 4.10 inches and Fairbury received 1.96 inches.

### Storm Data and Unusual Weather Phenomena

#### Location

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
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#### June 2002

Seven residents of Cook county died of heat related illnesses brought on by a prolonged period of hot weather. High temperatures at Chicago Ohare Airport ranged from the upper 80s to lower 90s with heat indices in the mid to upper 90s between June 21st and June 25th. M31PH, F65PH, M47PH, M73PH, M40PH, M52PH, M32PH
Storm Data and Unusual Weather Phenomena  

ILLINOIS, Northwest

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Henry County 3 W Geneseo

Lightning struck a semi truck on Interstate 80. The driver of the truck received minor burns to his right side.

Creek in Taylor Park out of it's banks.

Mill Creek out of it's banks onto city roads. Water estimated to be about 6 inches deep in some areas.

Route 26 north of Princeton covered in water around a foot deep in places. Many other roads north of Princeton inundated with water.
**ILIINOIS, Northwest**

Henry County

Atkinson

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Water over low lying portions of many streets.

Henry County

North Portion

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<tr>
<td>04</td>
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Portions of Route 6 under water. Several small creeks out of their banks.

Henry County

Galva

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Water up to a foot deep covered Highway 34.

Stephenson County

Pearl City

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<tr>
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Busch Road washed out and needed repairs to reopen. Loran Road inundated with high water and closed.

Whiteside County

3 N Fulton

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Six houses affected by flood waters due to breaks in a levee on Otter Creek.

Mcdonough County

Blandinsville

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Heavy rains which fell during the first week of June caused significant flash flooding rivaling that caused by storms during the summer of 1993. The counties hit hardest were Whiteside, Carroll, Bureau, Jo Daviess and Stephenson where storm total rainfall amounts were as high as 6 to 10 inches. This heavy rain resulted in widespread and significant flash flooding and river flooding. The Rock River reached record flood levels near Joslin, while at Moline the second highest crest was recorded. Flash flooding caused significant property damage to homes and businesses. Damage was also significant to farm land and public property including roads, parks and utilities. Public property damage in Northwest and West Central Illinois due to the flooding was around $3 million dollars.

Mcdonough County

Macomb

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Two inches of rain fell in just under 2 hours, resulting in flash flooding. Water covered several city streets and was up to the fenders on some automobiles.
ILLINOIS, Northwest

Hancock County

Countywide 11 1435CST 1700CST 0 0 Flash Flood

Many roads throughout the county were covered with water. Also, several creeks and streams were forced out of their banks.

McDonough County

Countywide 11 1435CST 1700CST 0 0 Flash Flood

Several rural roads throughout the county were covered with water up to a foot deep and were impassable.

Mercer County

Matherville 12 1855CST 0 0 Hail(2.00)

Henderson County

Oquawka 12 1916CST 0 0 Hail(0.75)

North Henderson 12 1935CST 0 0 Hail(1.75)

Mercer County

Aledo 12 2006CST 0 0 Hail(1.00)

Henderson County

Countywide 12 2225CST 0 0 Flash Flood

Henderson County

Countywide 12 2225CST 0 0 Flash Flood

Portions of Highway 34 and sections of Route 116 between Media and Stronghurst under water. Numerous county roads at least 6 inches under water.

Warren County

Smithshire 12 2245CST 0 0 Flash Flood

Residence surrounded by high water. Smithshire blacktop county road under water.

Warren County

4 N Monmouth 13 0100CST 0 0 Flash Flood

Highway 67 closed due to high water.

Warren County

Alexis 13 0430CST 0 0 Flash Flood

Several city roads closed due to high water.

Henderson County

Countywide 13 0450CST 0730CST 0 0 Flash Flood

Numerous county roads closed due to flood waters. Also, 4 feet of water reported around a home in Stronghurst.

Warren County

2 E Monmouth 13 0500CST 0730CST 0 0 Flash Flood

Highway 164 covered with water 6 to 12 inches deep.

Hancock County

Carthage 13 0505CST 0800CST 0 0 Flash Flood

Flood water debris blocking many county roads.

Hancock County

5 S Nauvoo 13 0505CST 0800CST 0 0 Flash Flood

 Portions of a blacktop road between Nauvoo and Hamilton covered with 6 inches of water.

McDonough County

3 E Good Hope 13 0510CST 0800CST 0 0 Flash Flood
ILLINOIS, Northwest

Water covered Route 9 making it impassable in spots.

McDonough County
Prairie City
13 0510CST 0800CST
Route 41 closed due to high water.

Hancock County
La Harpe
13 0550CST 0800CST
Several roads in and around town closed due to flood waters.

A nearly stationary front, combined with abundant moisture and a strong upper level storm system to produce scattered strong to severe thunderstorms Wednesday evening. A few reports of hail to near golfball size and wind gusts of around 60 mph were received. Damage was confined mainly to trees and power lines. The thunderstorms continued through the late evening and into Thursday morning. During this time the threat shifted from hail and high wind to very heavy rain and flash flooding, as the thunderstorms continuously developed over some of the same areas. Rainfall amounts of up to 3 to 5 inches were reported in portions of West Central Illinois, an area which just 48 hours earlier received anywhere from 2 to 5 inches of rain. As a result, much of the heavy rain went into runoff resulting in fairly widespread flash flooding.

Henry County
Cambridge
25 1630CST 0 0
Power lines and large tree branches knocked down.

Bureau County
1 E Neponset
25 1700CST 0 0
Large tree blown over onto a home.

Rock Island County
5 W Andalusia
26 1840CST 0 0
Hail(0.75)

ILLINOIS, South

ILZ092>093 Alexander - Pulaski
01 0001CST 0 0
The Ohio River fell below flood stage at Cairo and Grand Chain for the first time since late April.

ILZ084 Jackson
01 0001CST 0 0
The Big Muddy River fell below flood stage at Murphysboro for the first time since mid April.

ILZ083 White
01 0001CST 1700CST 0 0
The Little Wabash River fell below flood stage at Carmi for the first time since early May.

Wayne County
3 SE Barnhill
11 1750CST 0 0
About a dozen trees were blown down near Interstate 64.

ILZ084 Jackson
15 0900CST 1500CST 0 0
The Big Muddy River went slightly above flood stage at Murphysboro for a couple of days. The crest was only a few inches above flood stage, which caused minor flooding of low-lying areas along the river. The high water was mainly backwater from the Mississippi River, which was near flood stage.

Franklin County
1 E Whittington
24 1945CST 0 0
Trees were blown down in an area about one square mile.

Franklin County
Whittington
27 1545CST 0 0 2K
Hail(0.88)
ILLINOIS, South

Hail damaged at least one vehicle on Interstate 57 near the Sesser exit.

Wayne County
- Fairfield
  - Date: 27
  - Time: 1552 CST
  - Number of Hail: 0
  - Estimated Damage: Hail (0.75)

Perry County
- Pinckneyville to Du Quoin
  - Date: 27
  - Time: 1738 CST
  - Number of Flash Flood: 0

Franklin County
- Countywide
  - Date: 27
  - Time: 1800 CST
  - Number of Flash Flood: 0

Jefferson County
- Waltonville to Scheller
  - Date: 27
  - Time: 1800 CST
  - Number of Flash Flood: 0

A slow-moving complex of thunderstorms with torrential rain caused major problems over much of Franklin County, especially at Benton and West City. Firefighters rescued an elderly woman who needed assistance getting out of rising floodwater in her cellar. The water was about 18 inches deep when she was rescued. In another incident in Franklin County, sheriff deputies aided a woman whose car was swept off Highway 37. The car was swept into a flooded ditch, and ropes were used to get the woman to safety. Flooded streets, yards, and basements were common in Benton and West City. Some of the streets were closed, and several motorists became stranded while trying to drive through flooded areas. No injuries were reported after the roof of a fireworks tent collapsed from the weight of the water. Minor to moderate street flooding was reported in DuQuoin in Perry County. Near Waltonville in Jefferson County, water was over Route 148. An observer reported 3.11 inches of rain near Scheller in Jefferson County.

ILLINOIS, Southwest

St. Clair County
- East St Louis
  - Date: 10
  - Time: 1530 CST
  - Number of Thunderstorm Wind: 0
  - Estimated Damage: Thunderstorm Wind (G55)

St. Clair County
- Belleville
  - Date: 10
  - Time: 1530 CST
  - Number of Lightning: 0

Bond County
- Central Portion
  - Date: 10
  - Time: 1700 CST
  - Number of Flash Flood: 0

Pike County
- Barry
  - Date: 11
  - Time: 1410 CST

Pike County
- Griggsville
  - Date: 11
  - Time: 1420 CST

Pike County
- Rockport
  - Date: 11
  - Time: 1415 CST
  - Number of Tornado: 0

Brown County
- Versailles
  - Date: 11
  - Time: 1415 CST

Greene County
- Hillview
  - Date: 11
  - Time: 1435 CST

Greene County
- White Hall
  - Date: 11
  - Time: 1445 CST

About 3 inches of rain fell in about one hour causing some flash flooding in the Greenville area. Numerous roads in Greenville became impassable.

A small tornado hit the south side of the Rockport area. The roof of the Post Office was heavily damaged and several trees were downed.

The water was about 18 inches deep when she was rescued. In another incident in Franklin County, sheriff deputies aided a woman whose car was swept off Highway 37. The car was swept into a flooded ditch, and ropes were used to get the woman to safety. Flooded streets, yards, and basements were common in Benton and West City. Some of the streets were closed, and several motorists became stranded while trying to drive through flooded areas. No injuries were reported after the roof of a fireworks tent collapsed from the weight of the water. Minor to moderate street flooding was reported in DuQuoin in Perry County. Near Waltonville in Jefferson County, water was over Route 148. An observer reported 3.11 inches of rain near Scheller in Jefferson County.

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Storm Data and Unusual Weather Phenomena

Location | Date | Time/Standard | Path Length (Miles) | Path Width (Yards) | Number of Persons Killed | Estimated Damage Property | Crops | Character of Storm |
---|------|---------------|--------------------|-------------------|--------------------------|---------------------------|-------|-------------------|
St. Clair County | 10   | 1530 CST      | 0                  | 0                 | Thunderstorm Wind (G55)  |                           |       |                   |
Belleville        | 10   | 1530 CST      | 0                  | 1                 | Lightning                |                           |       |                   |
Central Portion   | 10   | 1700 CST 1900 CST | 0                  | 0                 | Flash Flood              |                           |       |                   |
Barry             | 11   | 1410 CST      | 0                  | 0                 | Thunderstorm Wind (G55)  |                           |       |                   |
Griggsville       | 11   | 1420 CST      | 0                  | 0                 | Thunderstorm Wind (G55)  |                           |       |                   |
Rockport          | 11   | 1415 CST 0.7 60 | 0                  | 0                 | Tornado (F0)             |                           |       |                   |
Versailles        | 11   | 1415 CST      | 0                  | 0                 | Thunderstorm Wind (G55)  |                           |       |                   |
Hillview          | 11   | 1435 CST      | 0                  | 0                 | Thunderstorm Wind (G55)  |                           |       |                   |
White Hall        | 11   | 1445 CST      | 0                  | 0                 | Thunderstorm Wind (G55)  |                           |       |                   |
The County sheriff reported trees down and several billboards down in Carlinville and east of town. Trees were also reported down in Brighton.

Thunderstorm wind gusts downed numerous trees and power lines in Edwardsville. Several automobiles were damaged by falling trees. Weather spotters estimated 70 mph wind gusts near Troy.

Thunderstorm wind gusts downed trees in Litchfield and Hillsboro. Downed trees blocked Highway 27 in Hillsboro.

Thunderstorm wind gusts downed trees and power lines throughout the area. In Lebanon, a tree fell on a car on Route 4 causing minor injuries to the driver. Large trees, estimated to be 50 years old, were uprooted in Millstadt. Trees and power lines were reported down in several parts of Belleville.

Thunderstorm winds uprooted trees, downed large limbs, and pulled down power lines in Highland.

Storm spotters reported numerous large trees limbs and some power lines down.

Numerous trees and power lines were downed from Ramsey northeast to the Henick community. Some roads were blocked by the downed power lines.

A small tornado hit northwest of Vandalia. A couple of machine sheds were damaged and one two-story home suffered roof damage. Several trees were downed along the path as well.

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A small tornado formed just east of Vandalia. Several power poles and trees were downed by the tornado. There were no structures in the path.

Clinton County
Carlyle 11 1610CST 0 0 Thunderstorm Wind (G55)
The County Sheriff reported numerous trees and power lines down.

Fayette County
4 S Vandalia 11 1610CST 0 0 Thunderstorm Wind (G55)
Fayette County
Brownstown 11 1615CST 0 0 Thunderstorm Wind (G55)
Numerous trees and power lines were downed south of Vandalia and in the Brownstown area.

Fayette County
Wrights Corner 11 1615CST 0 0 Thunderstorm Wind (G55)
The County Sheriff reported trees down.

Marion County
1 E Kimmundy 11 1640CST 0 0 Thunderstorm Wind (G60)
The County Sheriff reported the roof of a home damaged just east of Kimmundy.

Adams County
Camp Pt 25 1435CST 0 0 Hail(0.75)

Adams County
Camp Pt 25 1435CST 0 0 Thunderstorm Wind (G52)
Storm spotters reported large trees down and 3/4 inch hail.

Marion County
3 E Centralia 25 1730CST 0 0 Thunderstorm Wind (G52)
Thunderstorm winds caused some damage in a neighborhood east of Centralia. A storage building was destroyed and some power lines downed.

INDIANA, Central

Vermillion County
2 E Dana 01 1930EST 0 0 Hail(1.75)
Golfball size hail reported.

Clay County
2 N Brazil 01 2014EST 0 0 Hail(0.75)
Dime size hail reported.

Owen County
Spencer 01 2059EST 0 0 Thunderstorm Wind (G50)
Trees were down.

Daviess County
Elnora 02 1634EST 0 0 Thunderstorm Wind (G50)
Trees were reported down.

Tipton County
1 W Tipton 03 0634EST 0 0 Hail(1.75)
0637EST
Golfball size hail was reported.

Tippecanoe County
4 NE Lafayette 04 2013EST 0 0 20K Thunderstorm Wind (G55)

Fountain County
Hillsboro 04 2014EST 0 0 Thunderstorm Wind (G50)
2015EST

Tippecanoe County
8 N Lafayette 04 2015EST 0 0 200K Thunderstorm Wind (G55)
A squall line moved across west central and central Indiana knocking down numerous trees. In addition, 2 semi's were overturned 8 miles north of Lafayette, 2 cars were overturned 4 miles northeast of Lafayette, a semi was overturned 5 miles west of Tipton, 2 barns were blown down at North Salem in Hendricks county and a 92 mph gust was measured 3 miles northeast of Pyrmont in southwest Carroll county.
**INDIANA, Central**

**Hamilton County**
- 5 W Noblesville: Lightning struck a house.
- Lightning 60K0015 5 W Noblesville 1730EST

**Putnam County**
- Greencastle: Thunderstorm Wind (G50)0015

**Hamilton County**
- Carmel: Lightning struck a man in a parking lot.
- Lightning 1 0015 Carmel 1740EST

**Marion County**
- 5 NE Speedway: Thunderstorm Wind (G50)0015

**Hendricks County**
- Amo: Thunderstorm Wind (G50)0015

**Morgan County**
- Mooresville: Thunderstorm Wind (G50)0015

**Owen County**
- Devore: Thunderstorm Wind (G50)0015

**Brown County**
- 3 N Bean Blossom: Thunderstorm Wind (G50)0015

**Bartholomew County**
- Columbus: Thunderstorm Wind (G50)0015

**Marion County**
- 2 NNE Cumberland: Several multicellular storms marched across Central Indiana knocking down trees.
- Tornado (F0)0 0.1 025 2 NNE Cumberland 1210EST
- Trained spotter reported a brief F0 touchdown in a corn field. No damage.

**Marion County**
- Indianapolis: Hail(0.75)0015

**Johnson County**
- Greenwood: Thunderstorm Wind (G50)0015

**Tippecanoe County**
- West Pt: Trees down.

**Clinton County**
- Frankfort: Thunderstorm Wind (G50)0015

**Tippecanoe County**
- West Pt: Flash Flood

**Delaware County**
- Muncie: Thunderstorm Wind (G50)0015

**Randolph County**
- 2 N Winchester: Thunderstorm Wind (G50)0015

**Hamilton County**
- Countywide: Thunderstorm Wind (G50)0015

**Randolph County**
- Union City: Thunderstorm Wind (G50)0015

**Delaware County**
- Muncie: Thunderstorm Wind (G50)0015

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**Storm Data and Unusual Weather Phenomena**

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<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
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## Storm Data and Unusual Weather Phenomena

### June 2002

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Emergency management reported large trees down and power lines down in Galveston. Uprooted and fallen trees damaged a home and two cars.

Emergency management reported large tree limbs down in Bennetts Switch.

Newspaper report of large tree limbs down on a home and a car. Slight damage to roof and gutter of home with roof and windshield damage to car.

Allen county sheriff reported numerous power line down on the southwest side of Fort Wayne.

Flash flooding on the southwest and south side of Fort Wayne with numerous cars stranded in up to 3 feet of water. Spotter reports of over 3 inches of rain in 90 minutes.

Flash flooding in Fort Wayne with a general 4 to 6 inches of rain in 3 hours with reports of over 8 inches in 3 hours. Over 200 people were evacuated from homes. 500 homes received some flood damage with 15 homes condemned. 3 businesses sustained major damage, with one car dealership losing 95 vehicles to the flash flood. Total damage to property was over 5 million dollars.
INDIANA, Northwest

Benton County
Northwest Portion 25 1830EST 2030EST 0 0 Flash Flood

Thunderstorms moved across northwest Indiana during the afternoon and evening hours of June 25th. Two men who were working on a piece of drilling equipment in Crown Point, were struck by lightning. Both were thrown to the ground but suffered only minor injuries. Three trees were blown down in Valparaiso in Porter county and damaged a few parked cars. Heavy rainfall over northwest Benton county caused basement flooding. A spotter in northwest Benton county reported two inches of rainfall in just 20 minutes.

INDIANA, South Central

Orange County
Orleans 02 1708EST 0 0 Hail(0.75)

Clark County
Sellersburg 04 1520EST 0 0 Thunderstorm Wind (G50)
Trees and power lines were downed.

Clark County
8 NE Charlestown 04 1530EST 0 0 Hail(1.00)

Orange County
Valeene 05 1410EST 0 0 Hail(0.75)
There was also a wind gust estimated at 50 mph.

Clark County
New Washington 05 1525EST 0 0 Thunderstorm Wind (G50)
Several trees were downed along Highway 62.

Floyd County
Countywide 05 1555EST 0 0 Thunderstorm Wind (G50)

Floyd County
2 N Floyds Knobs 05 1555EST 0 0 Hail(1.75)

Jefferson County
1.5 N Brooksburg 05 1750EST 0 0 50K Lightning
A lightning strike caused a fire that destroyed most of a restored log cabin.

Orange County
Paoli 25 1552EST 0 0 Hail(1.50)

Floyd County
New Albany 25 1600EST 0 0 20K Thunderstorm Wind (G60)
A large limb was blown off a tree on to a garage. The garage was demolished.

Washington County
Martinsburg 25 1645EST 0 0 Hail(0.75)

Clark County
3 NW New Washington 25 1700EST 0 0 Thunderstorm Wind (G50)

INZ076
Orange 25 1755EST 0230EST 0 0 Flood

Much of Highway 337 east of Orleans was closed by flood waters. Crews sand bagged several locations in Orleans to protect property from flood waters.
A large area of showers producing two to three inches of rain moved across southeast Indiana during the early morning, causing high water to collect on area roads.

Thunderstorm winds blew down trees in Fort Branch. A tree fell on a garage, damaging the roof. Two trees fell on houses, causing some damage. Wind knocked down a chimney.

Power lines were down on the north side of Evansville.

Roofs were blown off two garage type structures. An empty silo was destroyed. Several large trees were blown down.

The weather situation was similar to the previous day with a warm front extending from northern Kansas, across central Iowa, into Illinois. A southerly flow of warm, moist and very unstable air remained in place over the area. Afternoon highs soared into the upper 80s and 90s just south of the front with dew point readings around 70. The airmass was capped again, limiting convection during the afternoon and early evening hours. The cap was broken just southeast of Des Moines with a cluster of severe thunderstorms forming. The storms produced large hail. Reports of hail up to baseball size were received from Wayne County at Humeston. Two and one half inch diameter hail fell nearby at Allerton. Considerable damage occurred due the the hail.

An unstable airmass remained in place over Iowa. A narrow line of thunderstorms developed to the northwest of Polk County and dropped southeast into the county. One cell became severe as it moved into Polk County. Winds of 70 MPH were reported in Polk City. The storm weakened rapidly after passing through Polk City. A short time later, another cell fired up over Jasper County. The storm produced high winds in the town of Monroe, downing many trees around town.

The airmass over Iowa remained very unstable with a persistent frontal boundary extending east to west across the central part of the state. Temperatures rose into the mid 80s to low 90s south of the front with dew point readings in the low 70s. The airmass was capped with 700 mb temperatures around +12 C much of the day. Thunderstorms erupted during the evening hours over northeast Iowa. Most of the storms remained below severe limits, however one cell did drop nickle size hail in Black Hawk County at Hudson.
IOWA, Central

Emmet County
2 N Estherville 07 1742CST 0 0 5K Thunderstorm Wind (G61) A semi-stationary front extended across northern Nebraska into southern Minnesota during the late afternoon hours. The airmass was quite capped with 700 mb temperatures around +10 C. A strong southerly low level jet stream formed during the late afternoon and evening hours. Thunderstorms erupted along the frontal boundary. The storms moved into the far northwest corner of Iowa, then weakened. One storm slipped into Emmet County and produced 70 MPH winds.

Palo Alto County
Mallard 07 2313CST 0 0 5K Thunderstorm Wind (G56) During the late evening hours another round of thunderstorms moved east out of Nebraska and South Dakota. Once again the storms weakened as they headed east. One storm remained severe and produced 64 MPH winds in Palo Alto County at Mallard.

Crawford County
Charter Oak 10 2227CST 0 0 10K Thunderstorm Wind (G56)
Ricketts 10 2230CST 0 0 10K Thunderstorm Wind (G56)
Denison 10 2232CST 0 0 10K Thunderstorm Wind (G56)
Manning 10 2245CST 0 0 5K Thunderstorm Wind (G52)
Halbur 10 2256CST 0 0 3K Thunderstorm Wind (G52)
Carroll Neu Arpt 10 2316CST 0 0 2K Thunderstorm Wind (G50) M
Greene County
Churdan 10 2330CST 0 0 3K Thunderstorm Wind (G52)
Webster County
Ft Dodge Muni Arpt 10 2355CST 0 0 5K Thunderstorm Wind (G62) M
Ft Dodge 10 2358CST 0 0 10K Thunderstorm Wind (G56)
Wright County
Eagle Grove 11 0010CST 0 0 15K Thunderstorm Wind (G56)
Clarion 11 0020CST 0 0 10K Thunderstorm Wind (G61) A very humid airmass was in place over Iowa during the afternoon of the 10th into the evening. High temperatures were not all that high with upper 70s and 80s common. Dew point temperatures were in the low to mid 70s. A cold front approached Iowa from the northwest. Thunderstorms fired up along the front. The main focus of thunderstorm development was over eastern Nebraska into western Iowa. A strong low level jet developed during the early evening hours. The combination of high amounts of low level moisture and the strong low level jet impinging on the approaching front was enough to break the cap in spite of a +13 C. temperature at 700 mb over Omaha. The storms formed into a Mesoscale Convective System. Though there was some hail with the thunderstorms, the main severe weather event was high winds. The lead edge of the system transitioned into a bow echo and produced winds of 60 to 70 MPH in several locations. One of the higher winds was at the apex of the bow echo. Seventy one MPH winds swept through the Fort Dodge area of Webster County. There were numerous reports of tree damage across western into parts of central Iowa. Scattered reports were received of power poles being blown down by the high wind. Southwest of Clarion in Wright County, high winds downed several power poles for example.

Madison County
3 E Truro 12 1525CST 0 0 3K 5K Hail(0.88)
Warren County
4 NW New Virginia 12 1525CST 0 0 3K 5K Hail(0.88)
Polk County
Pleasant Hill 12 1555CST 0 0 5K 2K Hail(0.88)

76
A complex weather situation unfolded during the day on the 12th with a series of events coming together. The forest fires in Colorado were a contributing factor to the thunderstorm initiation. During the night of the 11th and early morning of the 12th, two mesoscale convective systems formed over the fires in Colorado and tracked across Kansas. By sunrise on the 12th, the outflow from one of the complexes pushed north into northern Kansas and Southern Nebraska to interact with a quasi-stationary frontal boundary. Thunderstorms developed in this area and began to track east along the frontal boundary. The airmass near the front was quiet unstable with dew point temperatures in the low to mid 70s. During the day, some clearing allowed for heating to take place. Once surface temperatures reach 27°C, the negative inhibition was gone and surface based thunderstorms began to form. Meanwhile, a large and unseasonably strong upper low began to drop southeast into the north central U.S. and interacted with the developing storms. Thunderstorms formed in two rounds. The first round rolled across the state during the mid afternoon hours into the early evening. Another cluster of storms formed in the wake of the first by mid evening. For the most part, severe weather from the storms was in the form of hail. There were numerous reports of nickel to quarter size hail. Nearly all of the storms produced up to marble size hail. High winds were reported with one of the storms in Taylor County. The winds tore the roofs of barns in the area south of Siam. Wind damage was also reported southwest of Bedford with trees blown over. Crops were damaged by hail in many areas. Widespread crop damage occurred in Taylor County south of Siam due to the combination of winds and hail. The storms produced very heavy rainfall in many areas. Flash flooding took place in southern Polk County, especially in Des Moines and areas east and south. Rainfall rates were in the 2 to 3 inch per hour range. The city of Des Moines was hard hit with flooded streets. There were numerous reports of stalled vehicles with water two to three feet deep in the streets. East of Des Moines in the Runnells area, low lying gravel roads between Runnells and highway 163 were barricaded as they went under water. Damage occurred to some of the county gravel roads as well as numerous houses by basement flooding. Flash flooding also occurred in Dallas County.

### Storm Data and Unusual Weather Phenomena

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IOWA, Central

Highway 44 was under several inches of water east of Dallas Center. Flood waters were over Highway 141 west of Perry as well.

A warm, humid air mass covered most of the state during the day June 12, with a weak frontal boundary in place across south central Iowa. In the late afternoon storms erupted along this boundary, producing some severe weather and very heavy precipitation. Rainfall was especially heavy across the Des Moines metro area, and a Flash Flood Warning was issued for Polk county at 5:50 PM as several reports of severe flooding in the city were received. Flash flood warnings were also issued for Dallas and Marshall counties, and while some flooding did occur in Dallas county, little of significance was reported in Marshall county. The rains fell quickly in the Des Moines area with 1-hour rainfall from gages including West Des Moines DCP (WDMI4) 1.79”; Des Moines Airport ASOS (DSM) 1.63”; and River Woods Elementary - KCCI (SDRI4) 1.43”. Total rainfall was not much higher with several locations measuring in excess of 2 inches, including SDR4 at 2.22”, WDMI4, 2.10”; Iowa State Fairgrounds (STF4), 2.06”; and Maffitt Reservoir (MAFI4), 2.00”. Outside the metro area, rainfall was scattered, with parts of the lower Iowa River basin receiving 1 to 2 inches. River flooding was confined to the South Skunk at Oskaloosa, which briefly exceeded flood stage late on June 13.

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A line of thunderstorms formed over north central Iowa and dropped south. The storms were very elevated in nature and many produced pea to marble size hail and brief heavy rainfall. One of the cells became severe as it moved south to the west of Fort Dodge. The storm dropped three quarter inch diameter hail in that area for a brief period. A short time later, the cell regenerated as it moved into Hamilton County. The storm dropped nickel to quarter size hail as it passes through the Webster City area. While this was going on, an arc of thunderstorms developed from south central Minnesota into central Iowa. These storms formed along the warm front aloft and were also very elevated. Most of the storms were not severe, however one cell dropped one inch diameter hail in Marshalltown as it passed. As the night progressed, a band of thunderstorms became nearly stationary from central into north central Iowa. Several clusters of storms dropped very heavy rainfall, causing flash flooding in Winnebago and Marshall Counties. There were several reports of flooded basements and water over roads. A few road washouts occurred as well. East of Forest City, in Winnebago County, a truck was washed off the road by flowing flood waters. Rainfall reports indicated as much as 7.5 inches of rain fell at a site 5 miles east of Thompson. Much of the rain fell in under four hours.

Thunderstorms formed over southwest Iowa on the morning of the 18th. Though the airmass was capped, it was quite unstable. The storms dropped nickel to quarter size hail in Ringgold County before they weakened.
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Accompanied by 40 to 50 MPH winds.
A warm front remained nearly stationary from low pressure in South Dakota, southeast into southwest Iowa and northern Missouri. The airmass was quite capped with 700 mb temperatures in the 11 to 14 degree C. range. Thunderstorms fired over northern Iowa by around midnight. The storms were very elevated and were for the most part hail producers. There were numerous reports of three quarter to one inch diameter size hail across north central into northeast Iowa. A few of the storms produced much larger hail. Golf ball size hail fell in Wright County in the Eagle Grove area. in Cerro Gordo County, Mason City was hard hit by another storm. There were several reports of golf ball size hail causing damage to several homes. Numerous windows were broken and some damage was reported to the siding of several homes as the hail was accompanied by 40 to 50 MPH winds. About three hours later, another cell dropped large hail in Butler County. Considerable damage occurred in the town of Parkersburg as golf ball to baseball size hail pelleted the city. Toward the end of the event, a few of the cells became wind producers as they weakened. Severe criteria wind occurred in Butler County as winds of 60 to 70 MPH were reported. Several trees were downed and power was knocked out in the Allison area. Fortunately, much of the area that received heavy rainfall was relatively dry during June. Flash flooding occurred in Butler County with several reports of roads being washed out and flooding of residences basements. Rainfall of two to four inches was common with most of it falling in under 3 hours. During the storms, a minivan was struck by lightning east of Waterloo. The lightning traveled through the van, blowing out the rear window. It also left a 2 foot diameter crater in the roadway on U.S. Highway 20.
IOWA, Central

An isolated thunderstorms developed in central Iowa over Story County. This storm dropped hail up to the size of quarters on the city of Ames. The main area of convection developed to the west of Iowa and moved in during the evening hours. Once again, these storms produced mainly hail with scattered reports of three quarter to one inch diameter hail received from Webster and Crawford Counties.

Cerro Gordo County
4 SE Rockwell to 9 SE Rockwell

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Butler County
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<th>Date</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Killed</th>
<th>Injured</th>
<th>Damaged Property</th>
<th>Damage Crops</th>
<th>Character of Storm</th>
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<tbody>
<tr>
<td>10 W Greene</td>
<td>21</td>
<td>1228CST</td>
<td>7</td>
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<td>10K</td>
<td></td>
<td>Tornado (F1)</td>
</tr>
<tr>
<td>4 W Greene</td>
<td></td>
<td>1242CST</td>
<td></td>
<td></td>
<td></td>
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</table>

Intermittent track. Moved in from Cerro Gordo County.

A thunderstorm complex moved east across southern Minnesota during the day on the 21st. The outflow boundary from the complex progressed into northern Iowa to join with a warm frontal boundary lifting north across the state. The airmass was very stable to the south of the boundary with temperatures in the mid 80s to low 90s, and dew point temperatures in the low 70s to near 80. CAPE values were in the 5600 J/kg range by early afternoon. A lone thunderstorm cell formed in north central Iowa just southeast of Mason City. The storm became severe and produced a tornado southeast of Rockwell. The tornado moved southeast at first while the storm intensified, then turned east as it entered Butler County. The track of the tornado was across open country and as a result there was little more than crop damage from it. Spotter and Sheriff reports indicated the tornado was on the ground intermittently. Much of the time the condensation funnel was not in clear contact with the ground, however it would appear the strength of the tornado can be inferred from the length of the track, spotter reports, and radar presentation. Speaking to trained spotters that were on the site indicated the tornado supercell was a CLOCKWISE rotating supercell.

Black Hawk County
Waterloo

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Killed</th>
<th>Injured</th>
<th>Estimated Damage Property</th>
<th>Damage Crops</th>
<th>Character of Storm</th>
</tr>
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<tbody>
<tr>
<td>Waterloo</td>
<td>26</td>
<td>0500CST</td>
<td>0</td>
<td>0</td>
<td>1M</td>
<td></td>
<td>Lightning</td>
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</tbody>
</table>

Thunderstorms moved through the Waterloo area during the early morning hours. Lightning struck a business in town and started a fire. The initial estimate of damage by the fire was $1,000,000.

Adams County
Carbon

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
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<td>0</td>
<td>0</td>
<td>3K</td>
<td>5K</td>
<td>Hail(0.88)</td>
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Adams County
8 SE Prescott

<table>
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<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Killed</th>
<th>Injured</th>
<th>Estimated Damage Property</th>
<th>Damage Crops</th>
<th>Character of Storm</th>
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<td>26</td>
<td>1230CST</td>
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<td>0</td>
<td>15K</td>
<td>2K</td>
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1320CST

Union County
Kent

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<tr>
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<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
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<th>Estimated Damage Property</th>
<th>Damage Crops</th>
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<td>2K</td>
<td>Thunderstorm Wind (G61)</td>
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1320CST

Taylor County
3 W Lenox

<table>
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<th>Location</th>
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<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
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<th>Injured</th>
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<td>0</td>
<td>0</td>
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Ringgold County
2 N Kellerton

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<th>Path Width (Yards)</th>
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Taylor County
Lenox

<table>
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<tr>
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<th>Path Width (Yards)</th>
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Ringgold County
8 S Mt Ayr

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Tama County
4 W Tama

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Tama County
4 W Tama

Brief spinup tornado

<table>
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Jasper County
1 N Colfax

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<td>5K</td>
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<td>Hail(1.00)</td>
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Jasper County
Colfax

<table>
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<td>5K</td>
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Polk County
Mitchellville

<table>
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<th>Location</th>
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<th>Path Length (Miles)</th>
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<td>20K</td>
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<td>Hail(1.75)</td>
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81
A weak cold front moved southeast across Iowa during the afternoon of the 26th. The airmass was quite capped and thunderstorm development was limited. CAPE values by mid to late afternoon reached 3000 to 3500 J/kg just ahead of the front. Surface temperatures topped out around 90, with dew point readings in the low to mid 70s. Thunderstorms erupted just ahead of the front, but the line of storms was scattered to broken at best. For the most part, the storms produced hail around an inch in diameter. There were two reports of golf ball size hail from one cell as it moved through the Mitchellville area of Polk County. There were reports of high wind from a few of the cells in southwest Iowa. Trees were blown down by 60 MPH winds west of Lenox. The scattered line of thunderstorms produced winds of 60 to 70 MPH. The greatest damage reported came from Union County in the city of Kent. High winds damaged part of the front of a brick building and tore off a large barn door. Most of the other wind damage was limited to downed trees and power lines. One tornado touched down briefly in Tama County. The tornado reportedly only touched the ground and caused no damage.

Scattered thunderstorms developed during the early morning across Southeast Iowa and West Central Illinois north of a surface front in association with warm advection. Several reports of large hail ranging from penny to quarter size were received.
IOWA, East Central and Southeast

Water several inches deep on portions of 53rd Street.

Dubuque County
1 N Dubuque
03 2129CST 0 0 Hail(0.88)

Buchanan County
Independence
03 2154CST 0 0 Urban/Sml Stream Fld
Water ponding on Old Highway 20.

Delaware County
4 W Manchester
03 2246CST 2315CST 0 0 Flash Flood
145th Avenue impassable due to high water.

Dubuque County
Dubuque
04 0425CST 0600CST 0 0 Flash Flood
Several streets flooded with manhole covers off.

Dubuque County
Durango
04 0425CST 0700CST 0 0 Flood
Little Maquoketa River out of it's banks with 4 feet of water over road.

Dubuque County
Durango
04 0504CST 0730CST 0 0 Flash Flood
Streets and roads closed due to high water at Durango, Burtans Furnace and Hales Mills.

Buchanan County
Winthrop
04 0600CST 0800CST 0 0 Flash Flood
Buffalo Creek flooded with water inundating portions of County Road 939 East.  2.7 inches of rain was measured in about an hours time.

Jackson County
Maquoketa
04 0600CST 0800CST 0 0 Flash Flood
Highway 61 at the bypass closed due to high water.

Clinton County
Wheatland
04 0607CST 0730CST 0 0 Urban/Sml Stream Fld
Water ponding on roads, ditches full and water standing in some fields.  Broadcast media reported 2.3 inches of rain had fallen in Calamus between 6:00 a.m. and 8:00 a.m.

Jackson County
Fulton
04 0610CST 0900CST 0 0 Flash Flood
North Fork of the Maquoketa River rising rapidly.  Deep Creek out of it's banks and over Highway 61.

Jones County
Anamosa
04 0645CST 0900CST 0 0 Flash Flood
Buffalo and Division Creeks out of their banks causing flooding of some streets.

Dubuque County
Dyersville
04 0700CST 0900CST 0 0 Flash Flood
Parts of the city evacuated due to high water.  Trained spotter measured 5 inches of rain in 12 hours.

Jackson County
Maquoketa
04 0700CST 0900CST 0 0 Flash Flood
Water on south Main Street 2 to 3 feet deep.

Clinton County
Charlotte
04 0703CST 0930CST 0 0 Flash Flood
Rock Creek out of it's banks.
IOWA, East Central and Southeast

Clinton County

Silver Creek out of it's banks. Off duty National Weather Service employee reported 3.5 inches of rain in 12 hours.

Jones County

Prairie Creek out of it's banks between Scotch Grove and Monticello.

Scott County

Wapsipinicon River nearing bankful at Fairyland Park.

Buchanan County

Highway 38 closed due to flooding.

Jones County

High water inundated 2 mobile homes east of Highway 61.

Delaware County

High water inundated 2 mobile homes east of Highway 61.
IOWA, East Central and Southeast

Linn County
Palo 04 0914CST 0 0 Hail(0.88)

Benton County
Shellsburg 04 0915CST 0 0 Hail(1.00)

Scott County
Bettendorf 04 0955CST 0 0 Flash Flood
A driver was rescued from a stranded van before the van was swept away by flood waters.

Clinton County
Dewitt 04 1000CST 0 0 Flash Flood
Park under 1 to 3 feet of water. Storm total rainfall 4.57 inches.

 Dubusque County
Cascade 04 1030CST 0 0 Flash Flood
Highway 151 closed between Cascade and Monticello. Water reported to be up to the fuel tanks on semi trucks.

Jones County
Wyoming 04 1030CST 0 0 Flash Flood
Bear Creek near Highway 64 out of it's banks with water over the road.

Clinton County
Charlotte 04 1230CST 0 0 Flash Flood
Highway 136 partially closed due to high water.

Clinton County
Dewitt 04 1245CST 0 0 Flash Flood
Silver Creek out of it's banks with water estimated to be about 8 feet deep in some locations. Entire park near the McDonalds Restaurant was under water. Some residents evacuated.

Jackson County
Monmouth 04 1330CST 0 0 Flash Flood
Monmouth Post Office and City Hall workers had to evacuate due to high water surrounding the building.

Linn County
Cedar Rapids 04 1330CST 0 0 Flash Flood
Winslow and Austin roads along Indian Creek closed due to flooding.

Linn County
Northeast Portion 04 1330CST 0 0 Flash Flood
Several bridges along the Wapsipinicon River closed due to flooding.

Linn County
Robins 04 1330CST 0 0 Flash Flood
Main Street bridge closed due to high water.

Linn County
Springville 04 1330CST 0 0 Flash Flood
Highway 151 between Route 13 and Highway 1 was closed to east bound traffic. The bridge west of Springville was washed out by flood waters on the eastbound side.

Clinton County
Bleidorn 04 1400CST 0 0 Flash Flood
Numerous dirt and gravel roads washed out.

Clinton County
Malone 04 1400CST 0 0 Flash Flood
IOWA, East Central and Southeast

Highway 30 covered with water up to a half foot deep. Heavy rains which fell during the first week of June caused significant flash flooding rivaling that caused by storms during the summer of 1993. The counties hit hardest were Delaware and Dubuque where storm total rainfall amounts were as high as 8 to 11 inches. This heavy rain resulted in widespread and significant flash flooding and river flooding. The Rock River reached record flood levels near Joslin, while the Maquoketa and Wapsipinicon Rivers rose well above flood stage. In fact, the Maquoketa River and Rock River at Moline both experienced their second highest crest on record. Duck Creek went out of it's banks in the Iowa Quad Cities, swamping vehicles in streets and flooding houses, parks and apartment complexes all the way from Division Street in Davenport to the banks of the Mississippi River in Bettendorf. So many streets were flooded in Davenport that police were unable to close all of them. The Maquoketa River rose high enough to shut down the water treatment plant in Monticello, in Northeastern Jones County prompting many residents to compare the flooding to that of 1993. The Mayor of Monticello stated that in 1993 the water was 4 feet from the water treatment plant, yet by late afternoon on June 4th the fence was almost completely under water. Flash flooding caused significant property damage to homes and businesses. Damage was also significant to farm land and public property including roads, parks and utilities. President Bush declared 17 counties in Eastern Iowa as disaster areas, making them eligible for federal assistance. Counties declared in the Quad Cities National Weather Service area of responsibility included Clinton, Delaware, Dubuque, Jackson, Jones, Linn, Scott, Benton, Buchanan, Cedar, Iowa, Johnson and Muscatine. The flooding damaged an estimated 1,004 homes in 8 counties, and of those 22 had major damage and 8 were destroyed. Public property damage in Eastern Iowa due to flooding was at least $7.2 million dollars. The greatest dollar figures of damage occurred in Linn County ($3.2 million), Dubuque County ($2.1 million), and Jones County ($1.3 million).

Clinton County
Clinton 03 2350 CST 0 0 Lightning A tree was struck by lightning and landed on a house on 19th Avenue North. The tree landed on the attic portion of the home causing significant damage to the roof. No injuries were reported.

Dubuque County
Dyersville 11 0307 CST 0 0 Thunderstorm Wind (G52) Several large trees and numerous branches knocked down.

Linn County
Palo 12 1105 CST 0 0 Funnel Cloud

Linn County
2 E Palo 12 1111 CST 0 0 Funnel Cloud

Benton County
1 E Atkins 12 1116 CST 0.1 10 0 0 Tornado (F0) A brief tornado touched down just east of Atkins. No damage or injuries were reported.

Linn County
5 SW Cedar Rapids 12 1120 CST 0 0 Funnel Cloud

Keokuk County
3 NW Keota 12 1725 CST 0.1 10 0 0 Tornado (F0)
IOWA, East Central and Southeast

A brief tornado touched down northwest of Keota. The tornado dissipated at 190th Street and County Road G32. No reports of damage or injuries were received.

Tornado! Lee Ann Baumert took this picture from rural South English looking south toward Keota.

Washington County
Kalona

12
1732CST
0 0
Funnel Cloud

Washington County
3 E Washington

12
1813CST
0.1 10 0 0
Tornado (F0)

A brief tornado touched down east of Washington. No injuries or damage was reported.

Benton County
6 N Keystone

12
1855CST
0 0
Thunderstorm Wind (G52)

Five trees were blown down on a farm.

Benton County
5 N Keystone

12
1900CST
0 0
Thunderstorm Wind (G52)

Power pole and tree limbs knocked down.

Van Buren County
Farmington

12
2030CST
0 0
Flash Flood

Very heavy rain occurred in Farmington, with 2 inches of rain measured in just 30 minutes. This heavy rain forced Indian Creek out of its banks.

Des Moines County
Burlington

12
2135CST
0 0
Flash Flood

One to two feet of water covered several city roads. A vehicle stalled in the high water covering Highway 61.

Lee County
Denmark

12
2144CST
0 0
Flash Flood

13
0000CST

Two to three inches of rain fell in an hour triggering widespread lowland flooding. Also, water up to a foot deep covered several streets.

Des Moines County
Burlington

12
2245CST
0 0
Flash Flood

13
0245CST
IOWA, East Central and Southeast

Widespread flooding. Water collected in streets, backed up into yards and flowed into basements. Rainfall amounts ranged from 2 to 5 inches. Parts of Roosevelt Avenue were under 2 to 3 feet of water. Mason Road and portions of West Avenue east of Roosevelt were closed. Numerous vehicles were towed when they became stranded. High water also covered the intersection of Jackson and Page streets, prompting a resident to add that the water at the intersection was higher than ever before seen in nearly 60 years at the address.

Lee County
1 S Houghton 13 0400CST 0600CST 0 0 Flash Flood
County Road W55 covered with up to a foot of water and closed.

Van Buren County
1 N Mt Sterling 13 0530CST 0630CST 0 0 Flash Flood
County Road W20 inundated with high water and closed.

Des Moines County
2 W West Burlington 13 0540CST 0700CST 0 0 Flash Flood
Water up to a foot deep covered Highway 34 forcing it to be closed.

Lee County
Countywide 13 0557CST 0700CST 0 0 Flash Flood
Numerous county roads inundated with water and closed.

A nearly stationary front, combined with abundant moisture and a strong upper level storm system to produce scattered strong to severe thunderstorms Wednesday evening. A few reports of hail to near quarter size and wind gusts of around 60 mph were received. Damage was confined mainly to trees and power lines. The thunderstorms also spawned two F0 tornadoes, one east of Washington and the other near Keota. The tornadoes were short lived and produced no damage or injuries. The thunderstorms continued through the late evening and into Thursday morning. During this time the threat shifted from hail, high wind and isolated tornadoes to very heavy rain and flash flooding, as the thunderstorms continuously developed over some of the same areas. Rainfall amounts of up to 3 to 4 inches were reported in portions of Southeast Iowa, an area which just 48 hours earlier received anywhere from 2 to 5 inches of rain. As a result, much of the heavy rain went into runoff resulting in fairly widespread flash flooding.

Lee County
4 W Mt Hamill 26 0933CST 0934CST 0.1 10 0 0 Tornado (F0)
A tornado touched down briefly west of Mt. Hamill. No damage was reported.

Lee County
Argyle 26 1013CST 0 0 Funnel Cloud
Iowa County
Ladora 26 1625CST 0 0 Thunderstorm Wind (G57)
Iowa County
Victor 26 1630CST 0 0 Thunderstorm Wind (G57)
Siding blown off several homes.

Johnson County
3 NW Coralville 26 1710CST 0 0 Thunderstorm Wind (G52)
Tree branches knocked down.

Johnson County
Coralville 26 1710CST 0 0 Thunderstorm Wind (G54)
Johnson County
4 E Iowa City 26 1735CST 0 0 Thunderstorm Wind (G61)
Muscatine County
Wilton 26 1810CST 0 0 Thunderstorm Wind (G57)
A cold front, which extended from Southwest Wisconsin through Central Iowa early in the afternoon, was the focus for scattered strong to severe thunderstorms. Convective debris and an outflow boundary from early morning thunderstorms stabilized the atmosphere over portions of Eastern Iowa, delaying the development until late afternoon. Scattered thunderstorms developed in Northeast Iowa and propagated southeast. The activity evolved into short line segments and produced damaging winds of 60 to 70 mph.

Flash flooding was caused by 4 to 5 inches of rain in 1 to 2 hours, which resulted in extensive damage to roads, bridges and farm fields. Hardest hit were areas from Edgewood toward Millville. As a result, Clayton County was declared a federal disaster area, along with several other eastern Iowa counties.

Runoff from heavy rains that fell during the early morning hours continued to cause extensive flooding along rivers throughout much of the day.

Law enforcement officials reported hail ranging in size from dimes to nickels and quarters.
### Storm Data and Unusual Weather Phenomena

#### IOWA, Northeast

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Character of Storm</th>
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Several reports of dime, nickel and quarter size hail were received from law enforcement officials, spotters and the public.

- Floyd County
  - 5 SE Marble Rock: 21 1220CST
  - 5 W Marble Rock: 21 1223CST
  - Powersville: 21 1243CST

- Clayton County
  - Garnavillo: 21 1359CST

- Chickasaw County
  - 2 NW Ionia to 1.5 NW Ionia: 21 1715CST
  - 1 W New Hampton to 1 NE New Hampton: 21 1715CST

Law enforcement officials observed a brief tornado touchdown along Highway 18 near Ionia (Chickasaw County). There was no damage reported with the storm. The public also reported hail the size of quarters and golf balls.

- Winneshiek County
  - 1 N Burr Oak: 26 1157CST
  - 1.5 W Ft Atkinson to 1 W Ft Atkinson: 26 1322CST
  - Jackson Jct: 26 1328CST
  - 3.5 W Waucoma: 26 1340CST
  - Highland: 26 1430CST

A tornado touched down on a farm just west of Fort Atkinson (Winneshiek County), completely destroying an old barn. Other nearby outbuildings sustained minor damage, as did a nearby farm house. There were no injuries reported.

#### IOWA, Northwest

- Sioux County
  - 1 NE Rock Vly: 07 1605CST
  - Doon: 07 1620CST
  - Orange City Arpt: 07 1645CST

Thunderstorm winds blew over a construction trailer and caused tree damage.

- Sioux County Hospers: 07 1650CST

Thunderstorm Wind (G52)
<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Path Width (Yards)</th>
<th>Path Width (Miles)</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
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<tr>
<td>10 W Merrill</td>
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<td>A brief tornado, with a debris cloud, was observed by the county emergency manager in a field.</td>
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<tr>
<td>2 W Sheldon</td>
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<td>Very heavy rain caused widespread street flooding in Sioux City. Several cars were stalled.</td>
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<td>Thunderstorm winds caused widespread tree damage, including at least one tree uprooted.</td>
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**Storm Data and Unusual Weather Phenomena**

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<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
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91
### Storm Data and Unusual Weather Phenomena

#### June 2002

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

**IOWA, Northwest**

- **Sioux County**
  - **Alton**
    - Date: 19
    - Time: 2105 CST
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Injured: 0
    - Estimated Damage: Thunderstorm Wind (G61)

- **Plymouth County**
  - **5 SE Le Mars**
    - Date: 20
    - Time: 1930 CST
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Injured: 0
    - Estimated Damage: Hail (0.75)

- **Woodbury County**
  - **2 W Climbing Hill to 5 N Smithland**
    - Date: 20
    - Time: 2010 CST, 2020 CST
    - Path Length: 5
    - Path Width: 100
    - Number of Persons Killed: 0
    - Injured: 0
    - Estimated Damage: Tornado (F0)
      - A tornado caused tree damage along a five mile long path.

- **Woodbury County**
  - **Climbing Hill**
    - Date: 20
    - Time: 2037 CST, 2130 CST
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Injured: 0
    - Estimated Damage: Flash Flood
      - Heavy rain flooded several roads and fields.

**IOWA, Southwest**

- **Harrison County**
  - **4 NE Little Sioux**
    - Date: 10
    - Time: 2157 CST
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Injured: 0
    - Estimated Damage: Hail (1.00)

- **Harrison County**
  - **1 W Little Sioux to 4 NE Little Sioux**
    - Date: 10
    - Time: 2157 CST, 2205 CST
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Injured: 0
    - Estimated Damage: Thunderstorm Wind (G50)
      - A cooperative observer near Little Sioux estimated thunderstorm wind gusts of 60 mph in addition to 1 inch hail. The winds also overturned a semi truck on I-29 near town.

- **Monona County**
  - **Mapleton**
    - Date: 10
    - Time: 2225 CST
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Injured: 0
    - Estimated Damage: Thunderstorm Wind (G50)
      - Law enforcement estimated thunderstorm wind gusts of 65 mph which uprooted trees in Mapleton.

- **Shelby County**
  - **Harlan**
    - Date: 10
    - Time: 2250 CST
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Injured: 0
    - Estimated Damage: Thunderstorm Wind (G50)
      - Thunderstorm wind gusts split a large tree in town. The winds were estimated at around 60 mph.

- **Page County**
  - **1 NE Coin**
    - Date: 12
    - Time: 1803 CST
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Injured: 0
    - Estimated Damage: Hail (0.75)
      - Thunderstorm wind gusts downed large tree limbs and power lines in Harlan.

- **Page County**
  - **1 NE Coin**
    - Date: 12
    - Time: 1803 CST
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Injured: 0
    - Estimated Damage: Thunderstorm Wind (G50)
      - Thunderstorm wind gusts estimated at 60 mph broke large tree limbs near Coin. The winds were accompanied by 3/4 inch hail.

- **Page County**
  - **Shambaugh**
    - Date: 12
    - Time: 1813 CST
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Injured: 0
    - Estimated Damage: Hail (0.75)
      - Thunderstorm wind gusts broke large tree limbs in Shambaugh. Hail up to 3/4 inch accompanied the strong winds.

- **Mills County**
  - **Pacific Jet**
    - Date: 12
    - Time: 2047 CST
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Injured: 0
    - Estimated Damage: Hail (1.25)

- **Mills County**
  - **Pacific Jet**
    - Date: 12
    - Time: 2050 CST
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Injured: 0
    - Estimated Damage: Thunderstorm Wind (G50)
      - A ham radio operator estimated a thunderstorm wind gust of around 60 mph. The winds were accompanied by hail up to an inch and quarter in diameter.

- **Montgomery County**
  - **Red Oak**
    - Date: 18
    - Time: 0715 CST
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Injured: 0
    - Estimated Damage: Hail (0.75)
KANSAS, East

Douglas County
Lawrence
04 0855CST 0 0 4K Lightning
Lightning struck a radio station and started a fire that destroyed some equipment.

Shawnee County
Topeka
04 0950CST 0 0 3K Thunderstorm Wind (G61)
Strong winds knocked down trees onto power lines and disrupted power for a time.

Shawnee County
Topeka
04 0959CST 0 0 Hail(0.75)

Shawnee County
Topeka
04 0959CST 0 0 Thunderstorm Wind (G60)

Shawnee County
Topeka
04 0956CST 0 0 300K Flash Flood
Heavy rains from thunderstorms in the area produced flash flooding in Topeka for a time during the morning hours of the 4th. A number of intersections were flooded. Cars were abandoned at 39th and Atwood as water flowed by 2 to 3 feet deep. Cars were seen floating on the water at 16th and Tyler. Some basements were flooded in the southwest part of Topeka.

Shawnee County
Topeka
04 0959CST 0 0 Thunderstorm Wind (G65)

Shawnee County
Topeka
04 1000CST 0 0 Thunderstorm Wind (G60)
Thunderstorms developed over east central Kansas the morning of the 4th and produced reports of hail and strong winds in the Lawrence and Topeka areas. But the most damaging aspects of the storm was flash flooding caused by heavy rains that totaled over 3 inches in parts of Topeka. Runoff from the heavy rains produced flash flooding in Topeka as described above.

Shawnee County
Topeka
09 1040CST 0 0 1.5K Lightning
Lightning struck a power line causing power outages for about a half hour.

Cloud County
Jamestown
11 0306CST 0 0 Hail(0.75)

Ottawa County
4 N Ada
11 1552CST 0 0 Hail(0.75)

Cloud County
1 NNE Glasco
11 1613CST 0 0 Hail(0.88)

Cloud County
8 ESE Concordia
11 1630CST 0 0 Hail(1.75)

Cloud County
5 S Concordia
11 1640CST 0 0 Thunderstorm Wind (G61)

Republic County
2 W Agenda
11 1724CST 0 0 Hail(0.75)

Geary County
4 ESE Junction City
11 1745CST 0 0 Hail(0.75)

Riley County
2 NE Ogden
11 1759CST 0 0 Thunderstorm Wind (G52)

Washington County
9 N Morrowville
11 1822CST 0 0 Hail(0.88)

Wabaunsee County
7 E Alta Vista
11 1912CST 0 0 Hail(0.75)

Wabaunsee County
13 S Alma
11 1945CST 0 0 Thunderstorm Wind (G52)
## Storm Data and Unusual Weather Phenomena

### June 2002

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### Storm Data and Unusual Weather Phenomena

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Heavy rains from thunderstorms in the Hiawatha to Horton areas caused flash flooding with water over some roadways.

Lightning struck a house and started a fire that destroyed a stove and left minor smoke damage in the house.

Lightning struck a grain elevator and started a fire that damaged a filtering system.

A funnel cloud was sighted near Lake Perry dam.

Strong winds damaged a roof in Topeka.

Lightning struck a house and started a fire that destroyed the house.

Strong winds knocked down trees and limbs onto power lines causing some damage.
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KANSAS, East

Thunderstorms developed over northeast Kansas late in the afternoon of the 26th and gradually moved south to east central Kansas late in the evening. Many of the storms became severe and produced numerous reports of large hail and damaging winds. Heavy rains from the thunderstorms produced flash flooding in Brown county. But the most damage was done by lightning. A fire started by lightning completely destroyed a home in Topeka. Fires started by lightning also did some damage to a grain elevator in Topeka and to a house in Whiting.

KANSAS, Extreme Southeast

Cherokee County
Columbus
12 2046CST 2050CST 0 0 5K Thunderstorm Wind (G55)
Trees and power lines were blown down around Columbus.

Doppler radar estimated between two and three and a half inches of rain fell across central Cherokee County producing flash flooding. Several low water crossings were impassable for a few hours. Highway 69A and Flicker roads had the worst flooding and were closed for a period of time.

KANSAS, North Central

Smith County
Gaylord
02 1930CST 0 0 20K 0 Thunderstorm Wind (G51)
Strong winds from an isolated thunderstorm downed some power poles in Gaylord.

Phillips County
6 SE Long Is
15 0930CST 0 0 0 400K Hail(0.75)

Smith County
9 N Kensington
15 1210CST 0 0 10K 500K Hail(1.00)

Rooks County
2 N Logan
15 1300CST 0 0 0 400K Hail(0.75)

Phillips County
3 SW Glade
15 1322CST 0 0 10K 400K Hail(1.75)

Smith County
2 E Athol
15 1255CST 0 0 0 400K Hail(1.00)

Phillips County
2 N Logan
15 1300CST 0 0 0 400K Hail(0.75)

Osborne County
5 N Natoma
15 1355CST 0 0 0 0 Hail(1.00)

Rooks County
2 E Codell
15 1355CST 0 0 5K 500K Hail(0.75)
KANSAS, North Central

Rooks County
- Palo
  15 1410 CST  0 0 25K  500K  Thunderstorm Wind (G62)

Rooks County
- Codell
  15 1415 CST  0 0 25K  500K  Thunderstorm Wind (G62)

An early morning hail and wind storm mowed down wheat and alfalfa fields, and fell many power poles in Phillips and Rooks counties. The storms moved south from south-central Nebraska and pummeled the area with hail, which drifted a foot deep, and wind gusts to 70 mph. Power poles were reported down all across Rooks county. Crop damage alone was estimated at about 4 million dollars.

KANSAS, Northeast

Leavenworth County
- Basehor
  04 0914 CST  0 0  

Atchison County
- Effingham
  11 1650 CST  0 0  

Atchison County
- Lancaster
  11 1705 CST  0 0  

Atchison County
- 4 W Atchison
  11 1820 CST  0 0  

Johnson County
- 2 N (Ixd)Jhnsn Co Indsl
  11 2150 CST  0 0  Thunderstorm Wind (G74)

Doniphan County
- 3 SW Highland
  26 1555 CST  0 0  

Johnson County
- Leawood
  26 1800 CST  0 0  Thunderstorm Wind (G60)

Johnson County
- Olathe
  26 1830 CST  0 0 250K  Thunderstorm Wind (G70)

Thunderstorm winds ripped off portions of a roof on a VFW building and a Toys ‘R’ Us building. Numerous trees were uprooted. Tractor trailer rigs were overturned. Power lines were also downed and power poles were snapped in two. The downtown jail reported damage.

KANSAS, Northwest

KSZ001>004-013>016-027>029-041>042


Moderate to severe drought conditions persisted through the month of June across northwestern Kansas. Although local areas received beneficial moisture, most areas continued with below normal rainfall. The combination of much above normal temperatures and below normal precipitation resulted in below average crop yields and poor summer crop development.

Cheyenne County
- 1 NW St Francis
  01 1635 MST  0 0  Thunderstorm Wind (G52)

4 inch diameter tree limbs were broken.

Gove County
- 3 WNW Quinter
  02 1747 MST  0 0  Thunderstorm Wind (G52)

Sheridan County
- 16 SE Hoxie
  02 1755 MST  0 0  Thunderstorm Wind (G52)

Sheridan County
- 16 SE Hoxie
  02 1805 MST  0 0  Thunderstorm Wind (G52)

Strong thunderstorm winds bent over TV towers, tore off shingles, and uprooted cotton wood trees.
### Storm Data and Unusual Weather Phenomena

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<td>15</td>
<td>1132MST</td>
<td></td>
<td></td>
<td>0</td>
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<td>Hail(1.00)</td>
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</table>
KANSAS, Northwest

Wichita County

12 SSE Marienthal 15 1237MST 0 0 Hail(1.00)

Graham County

Bogue 15 1245MST 0 0 Thunderstorm Wind (G52)

Strong thunderstorm winds blew down 5 to 6 inch diameter tree limbs

Norton County

7 W Lenora 17 1516MST 0 0 Hail(0.75)

Graham County

4 SE Morland 17 1545MST 0 0 Hail(1.00)

Graham County

Morland 17 1547MST 0 0 Hail(0.75)

Norton County

11 NNW Norton 17 1620MST 0 0 Hail(0.75)

Norton County

5 NE Norton 17 1640MST 0 0 Hail(1.75)

Greeley County

1 NE Tribune 19 1515MST 0 0 1K Power poles down

Greeley County

10 NNE Tribune 19 1515MST 0 0 1K Power poles down

Logan County

8 WSW Russell Spgs 19 1530MST 0 0 Hail(0.88)

Wichita County

12 NE Leoti 19 1530MST 0 0 Thunderstorm Wind (G52)

Wallace County

9 SSW Sharon Spgs 19 1545MST 0 0 Hail(0.75)

Rawlins County

14 S Herndon 19 1610MST 0 0 Hail(0.88)

Rawlins County

9 S Herndon 19 1610MST 0.2 25 0 0 Tornado (F0)

Decatur County

5 W Oberlin to 7 W Oberlin 19 1615MST 1625MST 2 100 0 0 7K Tornado (F1)

Metal barn partially destroyed by tornado, losing several walls and most of the roof. Nearby house suffered minor roof damage.

Rawlins County

5 S Herndon to Herndon 19 1622MST 1655MST 5 100 0 0 7.5K Tornado (F0)

Slow moving, weak tornado produced intermittent damage as it traveled north across mostly open fields before moving near the town of Herndon. Several irrigation circles were damaged and numerous trees were down and stripped of bark.

Rawlins County

5 S Herndon 19 1630MST 0 0 Hail(1.00)

Rawlins County

5 S Herndon 19 1630MST 0 0 1.5K Thunderstorm Wind (G60)

Several power poles down.

Rawlins County

2 SW Atwood 19 1640MST 0 0 Thunderstorm Wind (G52)

Rawlins County

8 W Atwood 19 1645MST 0.2 25 0 0 Tornado (F0)

Brief touchdown. No known damage.
KANSAS, Northwest

Rawlins County
Ludell 19 1645MST 0.2 25 0 0 6K Tornado (F1)
Brief touchdown near Ludell. Several power poles were down, and irrigation equipment and trailer home were damaged.

Decatur County
8 S Oberlin 19 1650MST 0 0 Thunderstorm Wind (G61)

Rawlins County
Herndon 19 1655MST 0 0 Hail(1.75)

Rawlins County
5 W Herndon 19 1700MST 0 0 Hail(1.00)

Decatur County
Oberlin 19 1703MST 0 0 Thunderstorm Wind (G52)

Thomas County
9 N Levant to 12 N Levant 19 1707MST 3 100 0 0 2.5K Tornado (F1)
Weak tornado moved slowly north at approximately 15 mph, traveling mainly across open fields. An irrigation circle was damaged.

Gove County
Grinnell 19 1720MST 0 0 Hail(0.75)

Sheridan County
10 S Hoxie 19 1730MST 0 0 Hail(0.75)

Sherman County
6 N Edson 19 1745MST 0.2 25 0 0 Tornado (F0)
Brief touchdown. No known damage.
A line of scattered thunderstorms developed on a slow-moving surface boundary which stretched from southwest Nebraska through northwest Kansas during the late afternoon and evening hours. Storm movement was generally under 10 mph, and therefore the direction of many resultant wind and tornado events were guided by thunderstorm outflows. Four F-0 tornadoes and three F-1 tornadoes developed during this storm event. Tornadoes generally traveled from the south, southeast or east at speeds of 10 to 15 mph. Most tornadoes occurred over open country with no damage, but several moved near farmsteads and damaged barns and outbuildings, irrigation equipment and power poles.

Sherman County
7 N Kanorado 24 1455MST 0 0 Hail(0.75)

Sherman County
10 S Kanorado 24 1605MST 0 0 Hail(0.75)

Wallace County
18 NNW Weskan 24 1605MST 0 0 Hail(0.75)

Cheyenne County
St Francis 25 2100MST 0 0 Hail(0.75)

Sherman County
13 N Goodland 25 2110MST 0 0 Thunderstorm Wind (G56)

Cheyenne County
Bird City 25 2124MST 0 0 Thunderstorm Wind (G51) M

Sherman County
2 S Edson 25 2142MST 0 0 Thunderstorm Wind (G52)

Rawlins County
Atwood 25 2145MST 0 0 Thunderstorm Wind (G52)

Decatur County
Oberlin 25 2155MST 0 0 Thunderstorm Wind (G52)

Decatur County
Oberlin 25 2209MST 0 0 Thunderstorm Wind (G52)
Four to six-inch diameter tree limbs down.
### KANSAS, Northwest

- **Thomas County**
  - **Colby**
    - Date: 25
    - Time: 2215MST
    - Hail(4.00) 0000
    - Path Length (Miles): 0
    - Path Width (Yards): 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Not specified
    - Character of Storm: Thunderstorm Wind (G52)

- **Wallace County**
  - **Sharon Spgs**
    - Date: 25
    - Time: 2220MST
    - Hail(4.00) 0000
    - Path Length (Miles): 0
    - Path Width (Yards): 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Not specified
    - Character of Storm: Thunderstorm Wind (G52)

- **Logan County**
  - **Oakley**
    - Date: 25
    - Time: 2230MST
    - Hail(4.00) 0000
    - Path Length (Miles): 0
    - Path Width (Yards): 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Not specified
    - Character of Storm: Thunderstorm Wind (G52)

### KANSAS, Southeast

- **Reno County**
  - **Hutchinson**
    - Date: 04
    - Time: 0714CST
    - Hail(4.00) 0000
    - Path Length (Miles): 0
    - Path Width (Yards): 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Not specified
    - Character of Storm: Hail(1.00)

- **Reno County**
  - **1 E Hutchinson**
    - Date: 04
    - Time: 0720CST
    - Hail(4.00) 0000
    - Path Length (Miles): 0
    - Path Width (Yards): 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Not specified
    - Character of Storm: Hail(1.00)

- **Reno County**
  - **Hutchinson**
    - Date: 04
    - Time: 0725CST
    - Hail(4.00) 0000
    - Path Length (Miles): 0
    - Path Width (Yards): 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Not specified
    - Character of Storm: Hail(1.75)

- **Reno County**
  - **4 S Buhler**
    - Date: 04
    - Time: 0728CST
    - Hail(4.00) 0000
    - Path Length (Miles): 0
    - Path Width (Yards): 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Not specified
    - Character of Storm: Hail(1.50)

- **Reno County**
  - **1 E Hutchinson**
    - Date: 04
    - Time: 0734CST
    - Hail(4.00) 0000
    - Path Length (Miles): 0
    - Path Width (Yards): 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Not specified
    - Character of Storm: Hail(1.00)

- **Harvey County**
  - **2 W Hesston**
    - Date: 04
    - Time: 0755CST
    - Hail(4.00) 0000
    - Path Length (Miles): 0
    - Path Width (Yards): 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Not specified
    - Character of Storm: Hail(0.75)

- **Harvey County**
  - **Hesston**
    - Date: 04
    - Time: 0803CST
    - Hail(4.00) 0000
    - Path Length (Miles): 0
    - Path Width (Yards): 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Not specified
    - Character of Storm: Hail(1.00)

- **Kingman County**
  - **Penalosa**
    - Date: 04
    - Time: 0808CST
    - Hail(4.00) 0000
    - Path Length (Miles): 0
    - Path Width (Yards): 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Not specified
    - Character of Storm: Hail(1.00)

- **Reno County**
  - **6 W Pretty Prairie**
    - Date: 04
    - Time: 0830CST
    - Hail(4.00) 0000
    - Path Length (Miles): 0
    - Path Width (Yards): 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Not specified
    - Character of Storm: Hail(0.75)

- **Marion County**
  - **Marion**
    - Date: 04
    - Time: 0840CST
    - Hail(4.00) 0000
    - Path Length (Miles): 0
    - Path Width (Yards): 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Not specified
    - Character of Storm: Hail(1.00)

- **Kingman County**
  - **Nashville**
    - Date: 04
    - Time: 1142CST 1640CST
    - Hail(4.00) 0000
    - Path Length (Miles): 0
    - Path Width (Yards): 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Not specified
    - Character of Storm: Flash Flood

Many secondary roads flooded.

- **Sedgwick County**
  - **4 SW Goddard**
    - Date: 04
    - Time: 1225CST
    - Hail(4.00) 0000
    - Path Length (Miles): 0
    - Path Width (Yards): 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Not specified
    - Character of Storm: Hail(1.00)

- **Sedgwick County**
  - **Goddard**
    - Date: 04
    - Time: 1232CST
    - Hail(4.00) 0000
    - Path Length (Miles): 0
    - Path Width (Yards): 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Not specified
    - Character of Storm: Hail(1.75)

- **Cowley County**
  - **Arkansas City**
    - Date: 04
    - Time: 1235CST
    - Hail(4.00) 0000
    - Path Length (Miles): 0
    - Path Width (Yards): 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Not specified
    - Character of Storm: Hail(0.75)

- **Sedgwick County**
  - **Maize**
    - Date: 04
    - Time: 1243CST
    - Hail(4.00) 0000
    - Path Length (Miles): 0
    - Path Width (Yards): 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Not specified
    - Character of Storm: Hail(0.75)

- **Cowley County**
  - **Arkansas City**
    - Date: 04
    - Time: 1315CST 2020CST
    - Hail(4.00) 0000
    - Path Length (Miles): 0
    - Path Width (Yards): 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Not specified
    - Character of Storm: Flash Flood

Many roads flooded.
KANSAS, Southeast

Sumner County
- 5 W Caldwell 1435CST 0020CST
  Roads water-covered.

Cowley County
- 10 SW Arkansas City 041544CST 0020CST
  Rainfalls of 5.22 inches in 2 hours produced flash flooding in parts of Highway 166.

Sumner County
- 1 S Ashton 041630CST 0020CST
  Some roads were barricaded.

Russell County
- 1 N Bunker Hill 111455CST
  Hail(1.00)
- 3 E Bunker Hill 111502CST
  Hail(1.00)
- Wilson Lake 111515CST
  Hail(1.75)

Ellsworth County
- Wilson 111517CST
  Cooperative observer.

Lincoln County
- 8 SW Lincoln to 4 SW Lincoln 111525CST 4110CST
  Tornado (F0)
  Remained in the country.

Ellsworth County
- Wilson 111527CST
  Hail(1.75)
- Wilson 111530CST
  Hail(1.75)
- Wilson 111530CST
  Cooperative observer.

Ellsworth County
- Wilson 111530CST
  Hail(2.75)
- No reports of damage, but one has to wonder.

Lincoln County
- 10 SW Lincoln 111533CST 155CST
  Tornado (F0)
  Obviosly a brief touchdown.

Ellsworth County
- 3 E Wilson 111540CST
  Hail(2.75)
  Numerous windows smashed out of homes, businesses and vehicles. Crop damage, especially to corn and wheat, was extensive. Area newspapers contributed greatly to this report.

Ellsworth County
- 3 E Wilson 111542CST
  Thunderstorm Wind (G70)
  Major roof damage, with some roofs completely blown off homes. Windows blown out of both homes and vehicles. In cases where roofs were blown off homes, the resultant water damage from rains was extensive. Area newspapers contributed greatly to this report.

Russell County
- 4 S Dorrance 111542CST
  Hail(1.00)

Ellsworth County
- 9 NE Black Wolf 111558CST
  Thunderstorm Wind (G61)

Lincoln County
- 4 S Sylvan Grove 111605CST
  Hail(0.75)
## Storm Data and Unusual Weather Phenomena

### KANSAS, Southeast

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
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<td>Lincoln County</td>
<td>11</td>
<td>1618 CST</td>
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<td>Hail (1.25)</td>
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<td>10 S Sylvan Grove</td>
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<td>8</td>
<td>110</td>
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<td>2 E Ellsworth to 2 W Carneiro</td>
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<td>1637 CST</td>
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<tr>
<td>Almost paralleling Highway 140, the tornado remained in open country.</td>
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<td>Thunderstorm Wind (G52)</td>
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<tr>
<td>Ellsworth County</td>
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<td>Flash Flood</td>
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<tr>
<td>Sections of Highway 111 flooded.</td>
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<tr>
<td>2 S Kanapolis Res</td>
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<td>100K</td>
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<tr>
<td>Camper overturned with many trees uprooted.</td>
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<tr>
<td>1 S Kanapolis Res</td>
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<td>Unspecified number of campers tipped over, at least two boats broke loose from their moorings and an specified number of private docks were damaged.</td>
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<tr>
<td>2 S Marquette</td>
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<td>1722 CST</td>
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<td>100K</td>
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<td>Thunderstorm Wind (G74)</td>
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<tr>
<td>Widespread roof damage as well as downed power lines and power poles.</td>
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<td>100K</td>
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<td>Thunderstorm Wind (G74)</td>
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<tr>
<td>Widespread roof damage as well as downed power lines and power poles.</td>
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<td>8 S Marquette</td>
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<td>250K</td>
<td></td>
<td>Thunderstorm Wind (G52)</td>
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<tr>
<td>Two 80-85 foot silos collapsed, destroying the office building and milling operation. A 45-by-50 foot metal pole barn was destroyed, being picked up and hurled into a field southeast of where it had been located. Numerous businesses and residences sustained roof damage and had windows blown out. Obviously, tree damage was widespread and numerous power lines and power poles were downed. Area newspapers contributed greatly to this report.</td>
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<td>Rice County</td>
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<tr>
<td>3 N Little River</td>
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104
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<th>Location</th>
<th>Date</th>
<th>Time (Local/Standard)</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Character of Storm</th>
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<td>McPherson County</td>
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<td>1735 CST, 1745 CST</td>
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<td>Thunderstorm Wind (G52)</td>
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</tbody>
</table>
## Storm Data and Unusual Weather Phenomena

**KANSAS, Southeast**

**Ellsworth County**
- Ellsworth
  - Highway 14 flooded.
  - **June 11, 1845 CST**
  - Flash Flood

**Marion County**
- 5 NW Hillsboro
  - **June 11, 1854 CST**
  - No reports of damage.

**Reno County**
- Hutchinson
  - **June 11, 1854 CST**
  - Thunderstorm Wind (G65)

**Me Pherson County**
- Mc Pherson
  - Widespread street flooding.
  - **June 11, 1902 CST, June 12, 0117 CST**
  - Flash Flood

**Me Pherson County**
- Canton
  - **June 11, 1910 CST**
  - Thunderstorm Wind (G56)

**Me Pherson County**
- Mc Pherson
  - In northeast McPherson, streets were flooded 1-2 feet deep.
  - **June 11, 1912 CST**
  - Thunderstorm Wind (G56)

**Me Pherson County**
- Mc Pherson
  - Six inch diameter limbs downed.
  - **June 11, 1912 CST**
  - Thunderstorm Wind (G65)

**Me Pherson County**
- Silica
  - **June 11, 1924 CST**
  - Thunderstorm Wind (G56)

**Me Pherson County**
- 2 N Little River
  - **June 11, 1925 CST**
  - Hail(1.00)

**Me Pherson County**
- 2 N Little River
  - **June 11, 1930 CST**
  - Thunderstorm Wind (G52)

**Me Pherson County**
- 4 NW Alden
  - **June 11, 1949 CST**
  - Thunderstorm Wind (G52)

**Butler County**
- 4 E Potwin
  - **June 11, 1950 CST**
  - Thunderstorm Wind (G52)

**Chase County**
- 1 NW Elmdale
  - **June 11, 1950 CST**
  - Thunderstorm Wind (G52)

**Chase County**
- 2 SE Cottonwood Falls
  - **June 11, 2015 CST**
  - Thunderstorm Wind (G52)

**Reno County**
- Plevna
  - **June 11, 2028 CST**
  - Thunderstorm Wind (G52)

**Reno County**
- 12 W Nickerson
  - **June 11, 2043 CST**
  - Thunderstorm Wind (G52)

**Me Pherson County**
- Mc Pherson
  - **June 11, 2048 CST**
  - Flash Flood
  - **June 12, 0117 CST**
  - Flash Flood

Many roads flooded across the county.

---

### Storm Data and Unusual Weather Phenomena

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Injured</th>
<th>Estimated Damage Property</th>
<th>Crops</th>
<th>Character of Storm</th>
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</table>
**KANSAS, Southeast**

**Reno County**
- 2 N Buhler
  - 2059 CST
  - 2200 CST
  - Buhler Road flooded.

**Reno County**
- 2 E Haven
  - 2132 CST
  - Thunderstorm Wind (G52)

**Sedgwick County**
- Mt Hope
  - 2135 CST
  - Several limbs downed.

**Sedgwick County**
- Mt Hope
  - 2138 CST
  - Hail (0.75)

**Sedgwick County**
- Newton
  - 2150 CST
  - 0330 CST
  - Flash Flood

**Sedgwick County**
- Wichita
  - 2258 CST
  - 0400 CST
  - Flash Flood

**Kingman County**
- 1 NW Alameda
  - 2327 CST
  - Thunderstorm Wind (G52)

**Mepherson County**
- 7 E Moundridge
  - 0026 CST
  - 0117 CST
  - Flash Flood

**Montgomery County**
- Independence
  - 0045 CST
  - Thunderstorm Wind (G52)

**Sumner County**
- Oxford
  - 0056 CST
  - Thunderstorm Wind (G50) M

**Reno County**
- 1 NW Hutchinson
  - 0400 CST
  - Thunderstorm Wind (G52)

**Reno County**
- Hutchinson
  - 0410 CST
  - Thunderstorm Wind (G52)

**Sedgwick County**
- Derby
  - 0445 CST
  - Thunderstorm Wind (G52)

**Cowley County**
- Winfield
  - 0547 CST
  - Thunderstorm Wind (G52) M

**Cowley County**
- Arkansas City
  - 0550 CST
  - Hail (1.00)

**Cowley County**
- Arkansas City
  - 0557 CST
  - Hail (0.75)

**Cowley County**
- 8 E Rock
  - 1650 CST
  - Hail (0.75)

**Cowley County**
- 7 W Atlanta to 6 W Atlanta
  - 1654 CST
  - 1658 CST
  - Tornado (F0)

**Harper County**
- 13 E Freeport
  - 1658 CST
  - Hail (1.75)
### Storm Data and Unusual Weather Phenomena

#### June 2002

<table>
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<tr>
<th>Location</th>
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<th>Time/Standard</th>
<th>Path (Miles)</th>
<th>Path (Yards)</th>
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<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
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<td>25K</td>
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<td>Roof damage and windows smashed on cars and homes.</td>
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<td>2 SE Freeport to 3 E Freeport</td>
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<td>Remaining in the country, this tornado would cross the Harper/Sumner county line at 1736.</td>
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<td>Tornado (F0)</td>
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<td>5 SW Milan to 3 SW Milan</td>
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<tr>
<td>The same tornado that began 2 miles southeast of Freeport, this tornado crossed the Harper/Sumner county line at 1736, lifting 3 miles southwest of Milan.</td>
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<td>.5 E Greenwich</td>
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<tr>
<td>Although the tornado remained in open country, it traveled perilously close to the Burlington Northern Santa Fe railroad tracks.</td>
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<td>Brief touchdown in open country.</td>
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<tr>
<td>Some roads flooded 3-5 inches deep.</td>
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<td>3.5 W Douglass</td>
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<tr>
<td>Indianola/210th St. intersection flooded 1 foot deep.</td>
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<td>Thunderstorm Wind (G52)</td>
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<td>Buffalo</td>
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<td>Hail (0.75)</td>
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<tr>
<td>5 SW Mayfield</td>
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</table>

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### KANSAS, Southeast

**Sedgwick County**
- **Wichita**
  - Date: 12
  - Local/Standard Time: 1946CST
  - Path Length: 2100CST
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Damage to Property: Flash Flood

  Harry & Meridian intersection flooded curb to curb.

**Butler County**
- **Douglass**
  - Date: 12
  - Local/Standard Time: 2017CST
  - Path Length: 2255CST
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Damage to Property: Flash Flood

  Most roads in and around town flooded.

**Cowley County**
- **4 W Atlanta**
  - Date: 12
  - Local/Standard Time: 2020CST
  - Path Length: 2255CST
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Damage to Property: Flash Flood

  32nd Street barricaded.

**Neosho County**
- **1 S Earlton**
  - Date: 12
  - Local/Standard Time: 2038CST
  - Path Length: 2300CST
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Damage to Property: Flash Flood

  Highway 169 flooded 6-8 inches deep.

**Sumner County**
- **10 S Wellington**
  - Date: 12
  - Local/Standard Time: 2045CST
  - Path Length: 0040CST
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Damage to Property: Flash Flood

  Highway 81/Rome Rd. intersection flooded 2 feet deep.

**Ellsworth County**
- **5 N Holyrood**
  - Date: 15
  - Local/Standard Time: 1110CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Damage to Property: Hail(0.75)

- **Russell County**
  - **2 N Russell**
    - Date: 15
    - Local/Standard Time: 1156CST
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Damage to Property: Hail(0.75)

- **Barton County**
  - **9 N Claflin**
    - Date: 15
    - Local/Standard Time: 1202CST
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Damage to Property: Hail(1.00)

**Russell County**
- **6 S Dorrance**
  - Date: 15
  - Local/Standard Time: 1202CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Damage to Property: Hail(1.00)

**Ellsworth County**
- **5 N Holyrood**
  - Date: 15
  - Local/Standard Time: 1212CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Damage to Property: Hail(0.75)

- **1 S Holyrood**
  - Date: 15
  - Local/Standard Time: 1224CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Damage to Property: Hail(1.00)

- **Ellsworth County**
  - **2 W Lorraine**
    - Date: 15
    - Local/Standard Time: 1225CST
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Damage to Property: Hail(1.75)

**Rice County**
- **1 NE Mitchell**
  - Date: 15
  - Local/Standard Time: 1227CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Damage to Property: Hail(0.75)

**Russell County**
- **Dorrance**
  - Date: 15
  - Local/Standard Time: 1231CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Damage to Property: Hail(0.88)

**Ellsworth County**
- **Frantz**
  - Date: 15
  - Local/Standard Time: 1235CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Damage to Property: Hail(0.75)

- **Ellsworth County**
  - **Lorraine**
    - Date: 15
    - Local/Standard Time: 1238CST
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Damage to Property: Hail(1.00)

**Rice County**
- **2 SE Frederick**
  - Date: 15
  - Local/Standard Time: 1241CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Damage to Property: Hail(1.00)

**Rice County**
- **7 N Lyons**
  - Date: 15
  - Local/Standard Time: 1251CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Damage to Property: Hail(1.75)

  No damage estimates available, but damage to corn and wheat was considerable; approximately 30 to 35 percent. Area newspapers contributed to this report.

**Rice County**
- **Lyons**
  - Date: 15
  - Local/Standard Time: 1257CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Damage to Property: Hail(0.75)
### Storm Data and Unusual Weather Phenomena

**June 2002**

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Damage estimates aren't available, but damage to corn and wheat was considerable. Area newspapers contributed greatly to this report.

| Harvey County          |      |                     |                     |                    |                          |         |                           |       |                             |
| 1 N Burron             | 15   | 1400CST             |                     |                    | 0                        | 0       | Hail(0.75)                 |       |                             |

| Reno County            |      |                     |                     |                    |                          |         |                           |       |                             |
| 12 W Nickerson         | 15   | 1400CST             |                     |                    | 0                        | 0       | Hail(1.00)                 |       |                             |

| Russell County         |      |                     |                     |                    |                          |         |                           |       |                             |
| Luray                  | 15   | 1412CST             |                     |                    | 0                        | 0       | Thunderstorm Wind (G52)   | M     |                             |

Luray Elementary Weatherlab.

| Russell County         |      |                     |                     |                    |                          |         |                           |       |                             |
| Milberger              | 15   | 1417CST             |                     |                    | 0                        | 0       | Hail(1.00)                 |       |                             |

| Reno County            |      |                     |                     |                    |                          |         |                           |       |                             |
| 3 W Hutchinson         | 15   | 1430CST             |                     |                    | 0                        | 0       | Hail(1.00)                 |       |                             |

| Russell County         |      |                     |                     |                    |                          |         |                           |       |                             |
| Russell               | 15   | 1435CST             |                     |                    | 0                        | 0       | Thunderstorm Wind (G56)   |       |                             |

| Russell County         |      |                     |                     |                    |                          |         |                           |       |                             |
| Russell               | 15   | 1437CST             |                     |                    | 0                        | 0       | Thunderstorm Wind (G70)   |       |                             |

| Reno County            |      |                     |                     |                    |                          |         |                           |       |                             |
| 4 NE Partridge        | 15   | 1438CST             |                     |                    | 0                        | 0       | Hail(0.88)                 |       |                             |

| Russell County         |      |                     |                     |                    |                          |         |                           |       |                             |
| Russell               | 15   | 1438CST             |                     |                    | 0                        | 0       | Thunderstorm Wind (G54)   | M     |                             |

Ruppenthal Middle School Weatherlab.

| Russell County         |      |                     |                     |                    |                          |         |                           |       |                             |
| 7 S Gorham             | 15   | 1440CST             |                     |                    | 0                        | 0       | Hail(0.75)                 |       |                             |

| Sedgwick County        |      |                     |                     |                    |                          |         |                           |       |                             |
| Wichita                | 15   | 1443CST             |                     |                    | 0                        | 0       | Hail(0.88)                 |       |                             |

KSN Channel 3. Occurred in North Wichita.

| Reno County            |      |                     |                     |                    |                          |         |                           |       |                             |
| 4 NE Partridge        | 15   | 1444CST             |                     |                    | 0                        | 0       | Hail(1.00)                 |       |                             |

No dollar estimate available. However, accompanied by 50-60kt winds, the hail damaged approximately 75,000 acres of wheat, with potential losses reaching 25 million bushels. (See 1456 entry for 4N Castleton).

| Russell County         |      |                     |                     |                    |                          |         |                           |       |                             |
| 5 S Gorham             | 15   | 1446CST             |                     |                    | 0                        | 0       | Thunderstorm Wind (G61)   |       |                             |

| Russell County         |      |                     |                     |                    |                          |         |                           |       |                             |
| Russell               | 15   | 1448CST             |                     |                    | 0                        | 0       | Thunderstorm Wind (G59)   | M     |                             |

NWS ASOS station.

| Barton County          |      |                     |                     |                    |                          |         |                           |       |                             |
| 4 NW Galatia           | 15   | 1450CST             |                     |                    | 0                        | 0       | Thunderstorm Wind (G52)   |       |                             |
KANSAS, Southeast

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<th>Path Width (Yards)</th>
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No dollar estimate available. However, the 52kt winds were accompanied by pea-sized hail that damaged approximately 75,000 acres of wheat resulting in potential losses reaching 25 million bushels. (See 1444 entry for 4NE Partridge).
KANSAS, Southeast

Saline County
Salina
- **Time**: 1635 CST
- **Path Length**: 0
- **Path Width**: 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: 10K
- **Character of Storm**: Lightning

Power line knocked down just south of Iron Ave./Columbia Ave. intersection, tripping a circuit breaker that severed power to 656 people including the Penn Campus of Salina Regional Health Center and the Salina Journal.

Reno County
3 N Nickerson
- **Time**: 1638 CST
- **Path Length**: 0
- **Path Width**: 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**:Flash Flood

K96 flooded as well many county roads.

Harvey County
Hesston
- **Time**: 1645 CST
- **Path Length**: 0
- **Path Width**: 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: Flash Flood

Dutch Avenue flooded.

Butler County
4 SW Augusta
- **Time**: 1700 CST
- **Path Length**: 0
- **Path Width**: 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: Flash Flood

Santa Fe Lake Road flooded.

Harper County
1 N Harper
- **Time**: 1712 CST
- **Path Length**: 0
- **Path Width**: 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: Thunderstorm Wind (G52)

Kingman County
Kingman
- **Time**: 1725 CST
- **Path Length**: 0
- **Path Width**: 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: 15K
- **Character of Storm**: Thunderstorm Wind (G56)

Several trees and power lines downed.

Harper County
Anthony
- **Time**: 1744 CST
- **Path Length**: 0
- **Path Width**: 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: Thunderstorm Wind (G52)

Several trees downed.

Sedgwick County
Wichita
- **Time**: 1800 CST
- **Path Length**: 0
- **Path Width**: 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: Flash Flood

In South Wichita, West Street flooded.

Russell County
4 NW Milberger
- **Time**: 2015 CST
- **Path Length**: 0
- **Path Width**: 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: Hail (1.00)

Barton County
6 NE Hoisington
- **Time**: 2101 CST
- **Path Length**: 0
- **Path Width**: 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: Hail (0.75)

Mcherson County
Galva
- **Time**: 1856 CST
- **Path Length**: 0
- **Path Width**: 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: Hail (1.00)

Greenwood County
Madison
- **Time**: 2025 CST
- **Path Length**: 0
- **Path Width**: 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: Thunderstorm Wind (G52)

Greenwood County
Hamilton
- **Time**: 2108 CST
- **Path Length**: 0
- **Path Width**: 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: Thunderstorm Wind (G52)

Chase County
Hymer
- **Time**: 2110 CST
- **Path Length**: 0
- **Path Width**: 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: Hail (0.75)

Greenwood County
Severy
- **Time**: 2131 CST
- **Path Length**: 0
- **Path Width**: 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: 25K
- **Character of Storm**: Thunderstorm Wind (G70)

Roof blown off a store.

KANSAS, Southwest

Hamilton County
10 S Syracuse
- **Time**: 1823 CST
- **Path Length**: 0
- **Path Width**: 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: 1K
- **Character of Storm**: Thunderstorm Wind

A couple of power poles were blown down.

Ness County
4 NE Utica
- **Time**: 1855 CST
- **Path Length**: 0
- **Path Width**: 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: Thunderstorm Wind (G61)

Two to three inch diameter tree branches were broken by the wind.
## Storm Data and Unusual Weather Phenomena

### June 2002

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The 96 mph wind gusts was measured by backup wind equipment. Off duty NWS employee stepped outside the office to witness an airport hangar being ripped off by high wind. The remnants of the hangar landed 150 yards from the employee.
KANSAS, Southwest

This wind was measured by ASOS, about 3/4 of a mile north of the actual office where a 96 mph wind gust was recorded by backup wind equipment.

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The wind damaged the roof of a local restaurant and broken numerous three to five inch diameter tree limbs.

A pivot sprinkler was blown down along with 6 to 7 power poles.

Two foot diameter trees blown down.

Estimated damage for property and crops is not available.
KANSAS, Southwest

Pawnee County
3 SE Larned
Hail(0.75)
12 0115CST
0 0

Hodgeman County
12 SE Jetmore
Hail(0.75)
12 0120CST
0 0

Pawnee County
1 S Burdett
Hail(0.75)
12 0123CST
0 0

Ford County
4 ENE Spearville
Hail(1.00)
12 0125CST
0 0

Pawnee County
5 SE Larned
Thunderstorm Wind (G61)
A few three inch diameter tree limbs were blown down.
12 0130CST
0 0

Edwards County
3 S Offerle
Hail(0.88)
12 0200CST
0 0

Pawnee County
8 SE Larned
Hail(0.88)
12 0220CST
0 0

Comanche County
23 SE Coldwater
Hail(0.88)
12 1550CST
0 0

Barber County
8 WNW Hardtner
Hail(0.88)
12 1609CST
0 0

Barber County
3 SW Medicine Lodge
Hail(2.75)
12 1627CST
0 0

Barber County
Medicine Lodge
Hail(4.50)
12 1655CST
0 0

Barber County
Medicine Lodge
Hail(2.75)
12 1656CST
0 0

Barber County
2 E Medicine Lodge
Hail(2.50)
12 1703CST
0 0

Barber County
8 WNW Medicine Lodge
Hail(1.00)
12 1710CST
0 0

Pratt County
11 E Sawyer
Hail(1.00)
12 1745CST
0 0

Trego County
8 NE Wakeeny
Hail(0.88)
13 0030CST
0 0

Ness County
1 N Ransom
Hail(0.88)
13 0230CST
0 0

Ness County
Ransom
Hail(0.75)
13 0231CST
0 0

Hamilton County
5 S Coolidge
Hail(2.50)
14 1835CST
0 0

Hamilton County
4 W Syracuse
Hail(0.88)
14 1909CST
0 0

Kearny County
12 W Lakin
Hail(1.75)
14 1935CST
0 0

Ellis County
Victoria
Hail(0.75)
15 0801CST
0 0

Scott County
15 NW Scott City
Hail(0.88)
15 1258CST
0 0

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KANSAS, Southwest

Scott County
  4 W Scott City 15 1302CST  0 0  Hail(0.75)
Scott County
  Scott City 15 1321CST  0 0  Hail(0.88)
Scott County
  12 SW Scott City 15 1325CST  0 0  Hail(1.00)
Scott County
  6 SW Shallow Water 15 1330CST  0 0  Hail(1.50)
Lane County
  Dighton 15 1340CST  0 0  Hail(1.00)
Ness County
  Ransom 15 1355CST  0 0  10K  Hail(1.00) A combine header was blown off a parked trailer.
Finney County
  17 NNW Garden City 15 1358CST  0 0  Hail(1.00)
Kearny County
  8 NE Lakin 15 1415CST  0 0  Hail(1.00)
Lane County
  12 S Alamota 15 1415CST  0 0  5K  Hail(1.00) The wind caused some roof damage and took down numerous two inch diameter tree limbs.
Finney County
  Holcomb 15 1426CST  0 0  Hail(0.75)
Trego County
  Trego Center 15 1429CST  0 0  Thunderstorm Wind (G61)\textsuperscript{M}
Hodgeman County
  16 W Jetmore 15 1430CST  0 0  Hail(0.88)
Kearny County
  4 N Deerfield 15 1430CST  0 0  Hail(1.75)
Finney County
  Holcomb 15 1435CST  0 0  Hail(1.00)
Finney County
  11 W Plymell 15 1435CST  0 0  Hail(1.00)
Hodgeman County
  12 W Jetmore 15 1435CST  0 0  Hail(0.75)
Ellis County
  1 S Victoria 15 1440CST  0 0  Hail(0.75) Many "large" tree limbs were blown down.
Ford County
  3 E Dodge City 15 1440CST  0 0  Thunderstorm Wind (G70) A 450 pound roof was blown off an observatory.
Ford County
  3 N Dodge City 15 1445CST  0 0  Hail(0.75)
Ness County
  Ness City 15 1500CST  0 0  Thunderstorm Wind (G78)
Finney County
  10 S Holcomb 15 1508CST  0.5 30  0 0  Tornado (F0) This landsplot tornado did no damage.
KANSAS, Southwest

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<th>Path Width (Yards)</th>
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120
Storm Data and Unusual Weather Phenomena

June 2002

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Damage was done to farm buildings and windows were broken out.
## Storm Data and Unusual Weather Phenomena

### June 2002

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<th>Date</th>
<th>Local/Standard Time</th>
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<th>Path Width (Yards)</th>
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**Storm Data and Unusual Weather Phenomena**

KENTUCKY, Central

*Madison County*
- Berea: Liam 02 1745EST, 0 0, Hail (0.75)
- 1 E Nicholasville: Liam 02 1800EST, 0 0, Thunderstorm Wind (G50)
- Five trees blocked Highway 39.

*Jessamine County*
- 1 E Nicholasville: Liam 02 1826EST, 0 0, Thunderstorm Wind (G50)
- Trees and power lines were downed.

*Garrard County*
- Bryantsville: Liam 02 1850EST, 0 0 15K, Thunderstorm Wind (G65)
- A four foot diameter tree was blown onto a house, damaging the living room. Two other trees were blown over at the same location.

*KYZ057*
- Madison: Liam 02 1865EST, 0 0, Flood
- Heavy rains on the evening of June 2 produced flooding over much of the southern part of Madison County.

*Oldham County*
- 6 N La Grange: Liam 04 1441EST, 0 0, Thunderstorm Wind (G50)

*Henry County*
- Countywide: Liam 04 1445EST, 0 0, Thunderstorm Wind (G50)
- Power lines were blown down at Campbellsburg, Sligo, and New Castle.

*Jefferson County*
- Worthington: Liam 04 1450EST, 0 0 10K, Thunderstorm Wind (G65)
- There was some chimney and siding damage to a house.

*Oldham County*
- Countywide: Liam 04 1545EST, 0 0, Thunderstorm Wind (G50)

*Hart County*
- Cub Run: Liam 04 1610EST, 0 0, Thunderstorm Wind (G50)

*Larue County*
- 4 NE Upton: Liam 04 1632EST, 0 0, Thunderstorm Wind (G50)

*Casey County*
- Liberty: Liam 04 1633EST, 0 0, Thunderstorm Wind (G50)
- Trees were downed over the eastern part of the county.

*Trimble County*
- 7 NW Bedford: Liam 05 1545EST, 0 0, Thunderstorm Wind (G52) M

*Breckinridge County*
- Union Star: Liam 05 1610EST, 0 0, Thunderstorm Wind (G50)

*Ohio County*
- 3 S Prentiss: Liam 05 1625EST, 0 0, Thunderstorm Wind (G50)

*Butler County*
- Logansport: Liam 05 1633EST, 0 0, Thunderstorm Wind (G50)

*Grayson County*
- Clarkson: Liam 05 1716EST, 0 0, Thunderstorm Wind (G50)

*Hardin County*
- Sonora: Liam 05 1730EST, 0 0, Thunderstorm Wind (G50)
- Trees, power lines, and large limbs were blown down over parts of western and north central Kentucky.

*Henry County*
- New Castle: Liam 06 0755EST, 0 0, Flash Flood
- Flood waters closed Highway 146 near New Castle.
Oldham County
Countywide

06 0755EST
0845EST
0 0 Flash Flood
Ash Avenue in Pewee Valley was closed by high water. Numerous other locations had water over the roadway. A woman and her two children were rescued from a car trapped by flood waters.

Jefferson County
East Portion

06 0855EST
0930EST
0 0 Flash Flood
Hite Creek was out of banks and blocking parts of Hurstbourne Lane. Numerous other roads were covered with water.

Oldham County
Goshen

25 1625EST
0 0 1K Thunderstorm Wind (G50)
Several trees were blown down. There was also minor unspecified property damage reported.

Bourbon County
Centerville

25 1940EST
2300EST
0 0 Flash Flood
Water covered Highway 460 near the Scott County line.

Harrison County
Connersville

25 1944EST
2300EST
0 0 Flash Flood
Water covered Highway 32 near Connersville.

Scott County
Countywide

25 2130EST
2300EST
0 0 Flash Flood
A few side roads were impassable due to high water.

KENTUCKY, Eastern

Martin County
Laura

01 1440EST
0 0 0 0 Hail(0.88)

Pike County
1 W Meta

01 1545EST
0 0 0 0 Hail(1.00)

Pike County
Meta

01 1708EST
0 0 0 0 Hail(0.88)

Floyd County
Martin

01 1737EST
0 0 0 0 Hail(0.88)

Pike County
Phelps

01 1828EST
2028EST
0 0 0 0 Flash Flood
Three feet of water covered Boardtree Road.

Estill County
Irvine

02 1240EST
0 0 0 0 Hail(1.50)

Estill County
1 W Irvine

02 1245EST
0 0 0 0 Hail(1.25)

Estill County
Irvine

02 1253EST
0 0 0 0 Hail(0.75)

Estill County
Irvine

02 1255EST
0 0 0 0 Thunderstorm Wind
Several trees were reported down throughout Irvine.

Estill County
Irvine

02 1255EST
0 0 0 0 Hail(1.00)

Estill County
Irvine

02 1255EST
0 0 0 0 Flash Flood
KENTUCKY, Eastern

Two feet of flowing water was over several roadways.

**Breathitt County**

Juan
- Date: 02
- Time: 1313EST
- People: 0
- Property: 0
- Crop Damage: 0
- Storm Type: Hail (0.75)

**11 W Jackson**
- Date: 02
- Time: 1345EST
- People: 0
- Property: 0
- Crop Damage: 0
- Storm Type: Thunderstorm Wind

**Breathitt County**

Trees were down on Holland Road near Kentucky Highway 30.

**Jackson County**

Turkey Foot
- Date: 02
- Time: 1420EST
- People: 0
- Property: 0
- Crop Damage: 0
- Storm Type: Hail (0.88)

Nickel sized hail lasted for five minutes.

**Estill County**

Irvine
- Date: 02
- Time: 1441EST
- People: 0
- Property: 0
- Crop Damage: 0
- Storm Type: Flash Flood

One person was rescued from fast flowing, high water along Wagersville Road.

**Estill County**

Irvine
- Date: 02
- Time: 1530EST
- People: 0
- Property: 0
- Crop Damage: 0
- Storm Type: Hail (1.00)

Crystal
- Date: 02
- Time: 1545EST
- People: 0
- Property: 0
- Crop Damage: 0
- Storm Type: Flash Flood

High water was flowing over Kentucky Highway 52 and forced its closure in eastern Estill County, near the Lee County line.

**Lee County**

2 NNW Old Lndg
- Date: 02
- Time: 1545EST
- People: 0
- Property: 0
- Crop Damage: 0
- Storm Type: Flash Flood

High water flowed over Kentucky Highway 52 and forced its closure in western Lee County, near the Estill County line.

**Laurel County**

3 S London
- Date: 02
- Time: 1600EST
- People: 0
- Property: 0
- Crop Damage: 0
- Storm Type: Thunderstorm Wind

One tree was down near the intersection of Kentucky Highway 1189 and Kentucky Highway 229 in the Faristion community.

**Jackson County**

1 S Sandgap
- Date: 02
- Time: 1605EST
- People: 0
- Property: 0
- Crop Damage: 0
- Storm Type: Hail (1.75)

**Laurel County**

5 W London
- Date: 02
- Time: 1608EST
- People: 0
- Property: 0
- Crop Damage: 0
- Storm Type: Thunderstorm Wind

One tree was down near the intersection of Kentucky Highway 80 and White Oak Road near the Bernstadt community.

**Jackson County**

Countywide
- Date: 02
- Time: 1615EST
- People: 0
- Property: 0
- Crop Damage: 0
- Storm Type: Thunderstorm Wind

Numerous trees were down countywide, including: Kentucky Highway 89 North at Foxtown, Davidson Lane, Mooril-Kerby Knob Road, and in the community of McKee.

**Johnson County**

Paintsville
- Date: 02
- Time: 1615EST
- People: 0
- Property: 0
- Crop Damage: 0
- Storm Type: Thunderstorm Wind

Two trees were down along Kentucky Highway 825.

**Jackson County**

5 WNW Sandgap
- Date: 02
- Time: 1630EST
- People: 0
- Property: 0
- Crop Damage: 0
- Storm Type: Hail (0.88)

**Magoffin County**

7 NE Salyersville
- Date: 02
- Time: 1630EST
- People: 0
- Property: 0
- Crop Damage: 0
- Storm Type: Hail (0.75)

**Clay County**

Manchester
- Date: 02
- Time: 1722EST
- People: 0
- Property: 0
- Crop Damage: 0
- Storm Type: Hail (0.75)

**Clay County**

Manchester
- Date: 02
- Time: 1727EST
- People: 0
- Property: 0
- Crop Damage: 0
- Storm Type: Hail (1.00)

**Jackson County**

Sandgap
- Date: 02
- Time: 1810EST
- People: 0
- Property: 0
- Crop Damage: 0
- Storm Type: Flash Flood

United States Route 421 was closed between Sandgap and Morrill due to high and flowing water.
KENTUCKY, Eastern

Estill County
5 SW Irvine
Red Lick Creek flowed over Red Lick Road, with three feet of water flowing over it. Initially a flash flood situation, this event became a flood event since high, flowing water occurred for greater than six hours.

Rockcastle County
5 E Mt Vernon
Four trees were down on Kentucky Highway 1004 near Maplegrove.

Rockcastle County
3 E Mt Vernon
Three trees were down in the Orlando community.

Wayne County
3 NE Monticello
Several trees were down along Spann Hill Road near the Spann community.

Rockcastle County
5 SE Mt Vernon
One tree was down.

Rockcastle County
7 SW Mt Vernon
One tree was down in the Willailla community near Kentucky Highway 70 and John Mason Brown Road.

Laurel County
1 N North Corbin
Trees were down along United States Route 25.

Laurel County
1 N North Corbin
Thunderstorm Wind

Laurel County
Hopewell
Thunderstorm Wind

Clay County
3 WNW Manchester
A downburst caused significant roof damage to one home. One 55 gallon barrel full of dirt was blown into the side of the home.

Laurel County
Hopewell
Thunderstorm Wind

Whitley County
7 S Williamsburg
Several trees were down along United States Route 25 South.

Clay County
3 W Manchester
Thunderstorm Wind

Laurel County
2 NW North Corbin
Three quarter inch hail was reported at exit 29 on Interstate 75.

Knox County
Gray
Hail(0.75)

Perry County
2 W Hazard
Trees and power lines were down along Browns Fork Road.

Perry County
Vicco
Trees and power lines were down.

Breathitt County
Juan
Hail(0.75)
**KENTUCKY, Eastern**

Breathitt County
- Keck: Two trees were down on Kentucky Highway 540.
- Juan: Water was across Kentucky Highway 30.

Letcher County
- Mayking: Trees were down and power outages were reported.
- Seco: Trees were down and power outages were reported.

Leslie County
- 16 S Hyden: Hail (0.88)

**KENTUCKY, Northeast**

Boyd County
- Ashland: Hail (1.00)

Greenup County
- Lloyd: Hail (0.75)

**KENTUCKY, Northern**

- **KYZ091>093** (Boone - Kenton - Campbell)
  - Path Length: 700 EST
  - Path Width: 0 EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage Property: Flooding
  - Character of Storm: Flood
  - Time: 0700 EST
  - Location: Thunderstorms producing two to three inches of rain moved across the Cincinnati metro area during the morning hours, causing high water on area roadways.

- **KYZ089-094-094>095** (Carroll - Owen - Grant)
  - Path Length: 1545 EST
  - Path Width: 1950 EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage Property: Flooding
  - Character of Storm: Flood
  - Time: 1545 EST
  - Location: Slow moving thunderstorms produced very heavy rainfall across northern Kentucky during the late afternoon and early evening, causing several road closures due to high water.

**Carroll County**
- 4 S Ghent
  - Path Length: 1600 EST
  - Path Width: 1700 EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage Property: Flash Flood
  - Character of Storm: Flash Flood
  - Time: 1600 EST
  - Location: Several creeks and streams went out of their banks across the southern part of the county. High water was reported on a couple of roads.

**Owen County**
- 3 SE Owenton
  - Path Length: 1700 EST
  - Path Width: 1700 EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage Crop: Thunderstorm Wind (G50)
  - Character of Storm: Thunderstorm Wind (G50)
  - Time: 1700 EST
  - Location: Trees were knocked down and a roof was blown off a barn on Slippery Rock Road.

**KENTUCKY, Southwest**

Mccracken County
- Paducah
  - Path Length: 1145 EST
  - Path Width: 1700 EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage Crop: Thunderstorm Wind (G50)
  - Character of Storm: Thunderstorm Wind (G50)
  - Time: 1145 EST
  - Location: Large tree limbs were blown down in a residential neighborhood on the west side of town. The damage area was about one square mile.
KENTUCKY, Southwest

Graves County
Countywide 05  1300CST  0  0  Thunderstorm Wind (G50)
Sixteen trees were down across state and county roads.

Webster County
Poole 05  1400CST  0  0  10K  Thunderstorm Wind (G55)
The steeple was blown off a church, damaging the church’s roof and the sidewalk below.

Webster County
Poole 05  1400CST  0  0  Hail(0.75)

Caldwell County
Countywide 05  1414CST  1424CST  0  0  5K  Thunderstorm Wind (G50)
Several trees were blown down, some across roads.

Hopkins County
Madisonville to 2 E Nortonville 05  1440CST  0  0  Thunderstorm Wind (G50)
A couple of trees were down on a road in Madisonville. A couple other trees were down between Nortonville and White Plains.

LAKE ERIE

LEZ144 The Islands To Vermillion Oh
The Islands to Vermillion 12  2000EST  2100EST  0  0  Marine Tstm Wind (G35)

LEZ145 Vermillion To Avon Point Oh
Vermillion to Avon Point 12  2000EST  2100EST  0  0  Marine Tstm Wind (G35)
Thunderstorms over Lake Erie produced wind gusts in excess of 35 knots.

LEZ146 Avon Point To Willowick Oh
Avon Point to Willowick 14  1615EST  1745EST  0  0  Marine Tstm Wind (G35)

LEZ149 Conneaut Oh To Ripley Ny
Ripley Ny 14  1615EST  1745EST  0  0  Marine Tstm Wind (G35)

LEZ148 Geneva-On-The-Lake to Conneaut
Geneva-On-The-Lake to Conneaut 14  1615EST  1745EST  0  0  Marine Tstm Wind (G35)

LEZ166 Le Avon Pt To Willowick Oh Byd 5Nm Offshore To Intl Border
Avon Point to Willowick 14  1615EST  1745EST  0  0  Marine Tstm Wind (G35)

LEZ169 Le Conneaut Oh To Ripley Ny Byd 5Nm Offshore To Intl Border
Conneaut to Ripley Ny 14  1615EST  1745EST  0  0  Marine Tstm Wind (G35)

LEZ168 Le Geneva On The Lake To Conneaut Oh Byd 5Nm Offshore To Intl Border
Geneva-On-The-Lake to Conneaut 14  1615EST  1745EST  0  0  Marine Tstm Wind (G35)

LEZ164 Le The Islands To Vermillion Oh Byd 5Nm Offshore To Intl Border
The Islands to Vermillion 14  1615EST  1745EST  0  0  Marine Tstm Wind (G35)

LEZ165 Le Vermillion To Avon Pt Oh Byd 5Nm Offshore To Intl Border
Vermillion to Avon Point 14  1615EST  1745EST  0  0  Marine Tstm Wind (G35)

LEZ167 Le Willowick To Geneva On The Lake Oh Byd 5Nm Offshore To Intl Border
Willowick to Geneva-On-The-Lake 14  1615EST  1745EST  0  0  Marine Tstm Wind (G35)
Storm Data and Unusual Weather Phenomena

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Thunderstorms over Lake Erie produced winds in excess of 35 knots.
Thunderstorms over Lake Erie produced winds in excess of 35 knots. A 39 knot wind gust was measured at the Cleveland lighthouse.

Thunderstorms over the western basin of Lake Erie produced winds in excess of 35 knots. A 37 knot thunderstorm wind gust was measured at South Bass Island.

A line of severe thunderstorms moved east of Racine and Kenosha counties. Powerful northwest winds gusting to 58 knots (67 mph) were noted at the Racine Wastewater Treatment Plant on the Lake Michigan shoreline as the storms initially moved out over the lake, and 50 kt (58 mph) peak gusts out of the southeast were registered at the GLERL site in Kenosha, on the back side of the storms. At this coastal site, sustained winds were 35 kts (40 mph) or higher between 0855 and 0955CST. The southeast backside winds were due to a wake-low which developed over southeast Wisconsin.

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Severe thunderstorms over southeast Wisconsin moved out over the nearshore waters of Lake Michigan east of Milwaukee and Racine counties.

A short-lived waterspout spun up about 1/2 mile out over the nearshore waters of Lake Michigan northeast of Port Washington (Ozaukee Co.). It was observed by a trained spotter who was traveling south along Interstate 43. Scattered thunderstorms developed and moved southeast along a surface trough/shear line that extended northwest to southeast from Lake Winnebago through Ozaukee County to east of Milwaukee. Apparently, a vortex on the shear line was stretched vertically by the updraft tower of a thunderstorm. The width of the waterspout at the water surface was about 10 to 15 yards. No damage was noted.

Severe thunderstorms packing large hail moved east out over the Lake Michigan waters between the Milwaukee Harbor and Winthrop Harbor, IL.

Scattered severe thunderstorms with large hail moved east out over the Lake Michigan waters between Wind Point, WI and Winthrop Harbor, IL.
Trees fell on an apartment complex, resulting in minor damage to a few buildings. Thunderstorm winds blew in two hanger doors. The wind then entered the hanger and blew out the walls. The roof then collapsed subsequently destroying two Cessna-150 airplanes residing in the hanger.

Several large tree limbs were blown down and the roof of a trailer was damaged by wind gusts.

Several trees were blown down.

A 41 year old man died after being struck by lightning while fishing in Hackberry.

Trees and power lines were blown down across New Iberia.

Between three and six inches of rain fell across Lake Charles, resulting in flooding in some businesses and homes. Some streets had over a foot of water on them.
MAINE, North

NONE REPORTED.

MAINE, South

York County

Berwick

06 2255EST

Lightning 9K

Lightning struck a home in Berwick just before midnight causing an estimated $9000 in damage.

Oxford County

Hartford

23 1720EST

Hail(0.75)

A severe thunderstorm produced dime-sized hail in the town of Hartford.

Oxford County

Mexico

23 1945EST

Thunderstorm Wind (G50)

Thunderstorm Wind (G50) in Oxford County on the evening of the 23rd. Later that night, lightning struck a former chicken barn in Limerick igniting a fire that destroyed the barn and equipment inside. Damage was estimated to be $110,000.

Oxford County

Gilead

23 2030EST

Thunderstorm Wind (G50)

York County

Limerick

24 0030EST

Lightning 110K

Severe thunderstorms moving through western Maine knocked over trees in Mexico and Gilead in Oxford County on the evening of the 23rd. Later that night, lightning struck a former chicken barn in Limerick igniting a fire that destroyed the barn and equipment inside. Damage was estimated to be $110,000.

Somerset County

Hartland to Pittsfield

26 1855EST

Thunderstorm Wind (G50)

Severe thunderstorms knocked over trees which downed power lines in the towns of Hartland, Palmyra, and Pittsfield.

Oxford County

Bethel to Hartford

27 1945EST

Thunderstorm Wind (G70)

A severe thunderstorm knocked over trees which downed power lines in the towns of Bethel, Bryant Pond, West Paris, Sumner, and Hartford. Particularly hard hit was the village of Woodstock where winds uprooted or snapped numerous trees causing damage throughout the village. About 15 tombstones in the local cemetery were blown over or snapped by the storm.

MARYLAND, Central

Washington County

Williamsport

05 1605EST

Thunderstorm Wind

Trees and power lines were downed.

Washington County

Hagerstown

05 1614EST

Hail(1.50)

Dime to walnut sized hail fell.

Washington County

Hagerstown

05 1615EST

Thunderstorm Wind (G57)²

Winds up to 65 MPH pushed trees and power lines onto cars and roads and blew down a cement wall.

Washington County

Leitersburg

05 1625EST

Thunderstorm Wind

Two homes sustained roof damage.

Prince George's County

Countywide

05 1930EST

Thunderstorm Wind

Nearly 500 homes were damaged by fallen trees in Clinton, Upper Marlboro, and Brandywine.

Prince George's County

Andrews Afb

05 1937EST

Thunderstorm Wind (G54)²

A 62 MPH wind gust was recorded.
Quarter sized hail fell in Chesterfield.

Annie Arundel County 2 S Crumsville 06 1415EST Quarter sized hail fell in Chesterfield.

Howard County Countywide 06 1425EST A few trees were downed.

Howard County Savage 06 1425EST Dime to quarter sized hail fell.

Annie Arundel County North Portion 06 1445EST Trees and power lines were downed in Arnold, Pasadena, and Glen Burnie.

Annie Arundel County Baltimore Washington 06 1446EST Dime sized hail fell.

Annie Arundel County Pasadena 06 1450EST Golf ball sized hail was reported.

Charles County Countywide 06 1500EST Trees and power lines were downed.

Prince George's County Countywide 06 1500EST A dozen families were displaced after felled trees damaged homes in Cottage City. Damage was also reported in Clinton and Bladensburg.
MARYLAND, Central

St. Mary's County
Mechanicsville 06 1500EST 0 0 2K Thunderstorm Wind
Trees were downed and a fence was ripped from the ground in the Indian River Estates neighborhood.

Prince George's County
Brandywine 06 1507EST 0 0 Hail(1.75)
Golfball sized hail fell.

Calvert County
North Portion 06 1535EST 0 0 5K Thunderstorm Wind
Quarter sized hail was reported.

Frederick County
1 NE Frederick to 3 NE Frederick 06 1605EST 1613EST 2 50 0 0 15K Tornado (F0)
A weak tornado toppled a trailer, downed trees, and caused minor roof damage.

Montgomery County
Countywide 06 1645EST 0 0 1K Thunderstorm Wind
Trees were downed.

Montgomery County
Redland 06 1645EST 1651EST 0 0 Funnel Cloud
A funnel cloud was spotted near the intersection of Shady Grove Road and Mill Run Drive.

In Carroll County, a wind gust of 46 MPH was measured in Millers. A gust of 50 MPH was estimated in Westminster. In Baltimore County, 2.15 inches of rain fell at Cyburn Arboretum in Baltimore. A wind gust of 56 MPH was recorded around 1 PM in Parkton. In Anne Arundel County, the strongest part of the thunderstorm tracked between Fort Meade and Riviera Beach. Dime sized hail fell at BWI Airport. Quarter sized hail was reported in Chesterfield. Pea to golfball sized hail was reported in Pasadena where a total of 2.56 inches of rain fell. Trees and power lines were downed in Pasadena, Glen Burnie, and Arnold. Four homes were damaged by downed trees and nine homes were struck by lightning across the northern portion of the county. A 330-year-old tree in Lothian was also heavily damaged. At the height of the storm, 13,200 customers were without power. In Howard County, dime to quarter sized hail was reported in Laurel and Savage areas. A few trees were also downed countywide.

In Prince Georges County, golf ball sized hail fell in Brandywine. Quarter sized hail was reported in Laurel and pea sized hail fell in Accokeek. For a second straight day, trees fell onto homes in the county. About a dozen families in Cottage City were displaced after 11 homes were condemned due to structure damage. A home in Clinton burned to the ground after a fallen tree started the house on fire. Minor damage was also reported in Bladensburg. Heavy rains caused ponding of water on roads in the southern portion of the county. In Charles County, marble sized hail fell in Bryans Road. Trees and power lines were downed countywide. Several homes were also struck by lightning. In Calvert County, wind damage was reported from fallen trees. A large branch was downed in Derwood. Pea sized hail fell in Dunkirk and hail of unknown size fell at Solomon's Island. In St. Mary's County, trees were downed and a fence was ripped from the ground in the Indian River Estates neighborhood of Mechanicsville.

Charles County
2 W La Plata 13 1315EST 0 0 3K Thunderstorm Wind
Trees and power lines were downed.

A thunderstorm with heavy winds moved through Southern Maryland during the afternoon of the 13th. Two miles west of La Plata in Charles County, trees and power lines were downed.

Charles County
3 W White Plains 16 1608EST 0 1 0.10K Thunderstorm Wind

<table>
<thead>
<tr>
<th>Location</th>
<th>Date/Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
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<tbody>
<tr>
<td>Storm Data and Unusual Weather Phenomena</td>
<td>June 2002</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>
MARYLAND, Central

A tree limb fell onto a person at a golf course.

Scattered thunderstorms moved through Southern Maryland during the evening of the 16th. In Charles County 3 miles west of White Plains, one person was injured on a golf course when a tree limb fell on them. In Calvert County 2 miles west of Kings Beach, power line wires were downed.

In St. Mary's County, a thunderstorm that contained heavy downpours moved over St. Mary's County during the early afternoon of the 19th. As a result of the heavy rain, Mechanicsville Road was flooded.

In Montgomery County, a 33 year-old woman with multiple sclerosis died in her Aspen Hill home on Tuesday the 25th. She was found on Wednesday the 26th and the temperature measured in the house was more than 90 degrees due to the lack of air conditioning. In Baltimore County, a 37 year-old man died on the 27th after being exposed to excessive heat. In the city of Baltimore, a 52 year-old man and an 82 year-old man were found dead in their homes on the 27th. On the 30th, a 67 year-old woman was found dead in her home. In the Carroll County community of Westminster, a 69-year old male was out walking on the 29th and was overcome by heat. He was found not breathing near a shopping center along Route 140 and died a short time later at an area hospital. Each person had underlying health conditions that contributed to their deaths. In Anne Arundel County, two people were treated at area hospitals for dehydration and heat exhaustion on the 26th. F33PH, M69OU, M37OU, M82PH, M52PH, F67PH

Scattered thunderstorms with high winds and hail moved through Southern Maryland, the Baltimore metro area, and Northern Central Maryland on the evening of the 27th. In Washington County, large trees and power lines were downed in Hagerstown by winds estimated around 60 MPH. Four homes and 8 cars were damaged by the fallen trees. Two miles northeast of Smithsburg, a wind sensor measured a downburst wind gust of 81 mph before being blown away. The winds destroyed the remainder of the weather station by ripping it and the piece of roof it was attached to off a house. The winds also destroyed an 800 pound wooden play set nearby. The roof of a barn and 30 feet of fencing was blown away and a 1200 pound boat was moved. Dime sized hail was also reported. In Prince George's County, high winds downed trees in Greenbelt, Seat Pleasant, and Landover. In Calvert County,

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<tbody>
<tr>
<td>Maryland, Central</td>
<td>16</td>
<td>164EST</td>
<td>0</td>
<td>0</td>
<td>3K</td>
<td>Thunderstorm Wind</td>
<td>Wires were downed by high winds just west of Kings Beach.</td>
<td></td>
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<tr>
<td>Countywide</td>
<td>19</td>
<td>1315EST</td>
<td>0</td>
<td>0</td>
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<td>25</td>
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<td>6</td>
<td>0</td>
<td>Excessive Heat</td>
<td>Very warm and moist air was ushered into the region by south winds during the last week of June. On the 25th and 26th, temperatures in the mid 90s combined with dew points near 70 to create heat index values between 100 and 110 degrees. A handful of people who were in non-air-conditioned environments, especially in downtown Baltimore, died from complications of prolonged exposure to the heat. Temperatures remained in the lower 90s through the end of the month which also led to additional heat-related deaths and illnesses.</td>
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<td>26</td>
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<td>0</td>
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<td></td>
<td>In Montgomery County, a 33 year-old woman with multiple sclerosis died in her Aspen Hill home on Tuesday the 25th. She was found on Wednesday the 26th and the temperature measured in the house was more than 90 degrees due to the lack of air conditioning. In Baltimore County, a 37 year-old man died on the 27th after being exposed to excessive heat. In the city of Baltimore, a 52 year-old man and an 82 year-old man were found dead in their homes on the 27th. On the 30th, a 67 year-old woman was found dead in her home. In the Carroll County community of Westminster, a 69-year old male was out walking on the 29th and was overcome by heat. He was found not breathing near a shopping center along Route 140 and died a short time later at an area hospital. Each person had underlying health conditions that contributed to their deaths. In Anne Arundel County, two people were treated at area hospitals for dehydration and heat exhaustion on the 26th. F33PH, M69OU, M37OU, M82PH, M52PH, F67PH</td>
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<td>1622EST</td>
<td>0</td>
<td>0</td>
<td>3K</td>
<td>Thunderstorm Wind (G52)</td>
<td>Trees and power lines were downed by winds estimated around 60 MPH.</td>
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<td>Hagerstown</td>
<td>27</td>
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<td>0</td>
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<td>0</td>
<td>0</td>
<td>9K</td>
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<td>1821EST</td>
<td>0</td>
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<td>2K</td>
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<td>1824EST</td>
<td>0</td>
<td>0</td>
<td></td>
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### Storm Data and Unusual Weather Phenomena

**June 2002**

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Scattered thunderstorms with high winds and hail moved through Southern Maryland, the Baltimore metro area, and Northern Central Maryland on the evening of the 27th. In Washington County, large trees and power lines were downed in Hagerstown by winds estimated around 60 MPH. Four homes and 8 cars were damaged by the fallen trees. Two miles northeast of Smithsburg, a wind sensor measured a downburst wind gust of 81 mph before being blown away. The winds destroyed the remainder of the weather station by ripping it and the piece of roof it was attached to off a house. The winds also destroyed an 800 pound wooden play set nearby. The roof of a barn and 30 feet of fencing was blown away and a 1200 pound boat was moved. Dime sized hail was also reported. In Prince George's County, high winds downed trees in Greenbelt, Seat Pleasant, and Landover. In Calvert County,
MARYLAND, Central

winds knocked down trees in Sunderland. In St. Mary's County, trees were downed in Golden Beach. In Howard County, a 57 MPH wind gust was recorded in Fulton.

MARYLAND, Northeast

MDZ008-012-015-019>020 Cecil - Kent - Queen Annes - Talbot - Caroline

Precipitation during June of 2002 once again was drier than normal throughout the Maryland Eastern Shore. The drought emergency remained in effect for Cecil County. The rest of the Eastern Shore remained under a drought warning. Level one mandatory restrictions remained in place for Cecil County and included the prohibition of watering lawns, use of water for ornamental purposes use of water for non-commercial washing or cleaning of automobiles, trucks, trailers and boats, washing paved surfaces, use of sprinklers and other automatic watering devices for irrigation, watering gardens, trees, shrubs or other outdoor plants. Hand held hoses and containers could still be used. Elsewhere along the Eastern Shore, no formal restrictions were in place, but water conservation continued to be emphasized. The only reported exception was in Galena (Kent County) where watering restrictions were in place on the odd number days. Groundwater levels at eight measuring wells remained near record low levels. Subsoil moisture levels on farms were dry. Crops were described as "fair". The corn crop was showing signs of drought stress as the leaves were starting to curl and turn brown. The dry conditions were expected to cause a record number of outdoor fires on the Delmarva Peninsula. The rate of fires was ahead of the 2001 pace. On a county weighted average, June monthly precipitation ranged from 1.2 inches in Talbot County to 2.5 inches in Cecil County. Normal is around 3.9 inches. At the Baltimore-Washington International Airport, June monthly precipitation was 2.39 inches, 1.04 inches below normal.

Kent County

Betterson 05 2010EST 0 0 0 Thunderstorm Wind (G52)
A severe thunderstorm knocked down a few trees in the northern part of Kent County. Lightning from the same storm struck a boat in Rock Hall. No serious damage or injuries were reported.

Queen Anne'S County

Grasonville 05 2020EST 0 0 0 Thunderstorm Wind (G57)
A severe thunderstorm knocked down several large trees and pulled shingles from the roof of one house in Grasonville.

Kent County

4 NW Melitota to Massey 06 1501EST 1540EST 0 0 Hail(1.75)

Kent County

4 NW Melitota to Worton 06 1501EST 1510EST 0 0 Thunderstorm Wind (G50)
A severe thunderstorm dropped large hail across the northern two-thirds of Kent County. Hail as large as golf balls was reported in Chesapeake Landing. Crop damage from the hail was reported in Chestertown, Fairlee, Kennedyville, Massey, Melitota, Tolchester and Worton. The same storm tore limbs from trees around Chesapeake Landing and lifted a barn roof and tore down trees between Worton and Lynch.

Talbot County

St Michaels to Easton 06 1601EST 1615EST 0 0 Thunderstorm Wind (G61)M
A severe thunderstorm knocked down numerous trees from Saint Michaels east to Easton. Downed trees blocked U.S. Route 50 in Easton. But the biggest casualty of the severe thunderstorm was the massive Wye White Oak Tree in Wye Mills. The largest white oak tree in the United States was snapped near its base by it. The tree was 460 years old, 104 feet tall, had a circumference of 32 feet and weighed about 200 tons. Debris from the fallen tree spread across Maryland State Route 662. The road was closed through the night. A peak wind gust of 70 mph was measured at St. Michaels. Scattered power outages were all restored by 930 p.m. EDT that evening.

Queen Anne'S County

Grasonville 06 1610EST 0 0 0 Lightning
Lightning struck a house in Grasonville. The ensuing house fire caused minor damage before firefighters extinguished it.

Queen Anne'S County

Queenstown 06 1620EST 0 0 Thunderstorm Wind (G52)
A severe thunderstorm knocked down numerous trees in the southern half of Queen Anne's County.

Caroline County

Countywide 06 1620EST 1640EST 0 0 Thunderstorm Wind (G52)
A severe thunderstorm knocked down a couple of trees in Caroline County including Denton.
MARYLAND, Northeast

Cecil County
North East 18 1708EST 0 0 Thunderstorm Wind (G56)
A severe thunderstorm knocked over a few trees and caused minor damage to a few buildings including a retirement home. No serious injuries were reported.

Caroline County
Goldsboro 19 1415EST 0 0 Hail(0.75)

Queen Anne’s County
Templeville 19 1435EST 0 0 Hail(0.75)

MDZ008-012-015-019>020 Cecil - Kent - Queen Annes - Talbot - Caroline

The first prolonged period of heat and humidity of the season affected the Maryland Eastern Shore for most of the work week of June 24th. A strong cold frontal passage during the evening of the 27th ended the hot spell. Highest temperatures included 98 degrees in Galena (Kent County), 97 degrees at the Baltimore-Washington International Airport, 96 degrees in Easton (Talbot County) and 94 degrees in Stevensville (Queen Anne’s County).

MARYLAND, South

NONE REPORTED.

MARYLAND, West

NONE REPORTED.

MASSACHUSETTS, Central and East

Worcester County
Gardner 02 1051EST 0 0 Hail(0.75)

Middlesex County
Dracut 02 1238EST 0 0 Hail(0.75)

Essex County
Swampscott 02 1315EST 0 0 5K Thunderstorm Wind (G50)
Isolated severe thunderstorms produced dime sized hail in Gardner and Dracut, and downed trees and wires in Swampscott.

Franklin County
Heath 05 2050EST 0 0 2K Thunderstorm Wind (G50)
An isolated severe thunderstorm downed large branches in Heath.

Norfolk County
Stoughton 06 0010EST 0 0 5K Lightning
Lightning struck a main power cable, knocking out electricity to about 1,000 customers in Stoughton.

Hampden County
Southwick 16 1522EST 0 0 Hail(0.75)

Worcester County
Spencer to Milford 16 1548EST 1625EST 0 0 5K Thunderstorm Wind (G50)

Worcester County
Oxford 16 1558EST Microburst

Norfolk County
Wrentham 16 1630EST 0 0 5K Thunderstorm Wind (G50)
Severe thunderstorms moved across parts of central and eastern Massachusetts. Dime sized hail was reported in Hampden and
MASSACHUSETTS, Central and East

Worcester Counties, from Southwick to Spencer, Oxford, Leicester, Millbury, and Milford. The storms also downed trees and power lines in Wrentham before weakening.

The same storms also produced a microburst in Oxford, bringing down several large, old trees. Other trees were downed on town and private property, utility poles were brought down, some roofs were slightly damaged, and the flagpole at the Middle School was bent by a falling tree. The microburst appeared to originate along Old Dudley Road and travel to Pineridge Drive, through South Cemetery, across Route 12 and Interstate 395, to Brown Road. A trained spotter measured a wind gust to 67 MPH as the storms moved through.

Norfolk County
Medfield
17 1955EST
0 0
Hail(0.75)

A small cluster of severe thunderstorms dropped dime sized hail in Milford and Medfield.

Bristol County
Dighton
26 0300EST
0 0
5K
Lightning

Lightning from early morning thunderstorms struck two trees in Dighton which took down power lines. A house in Swansea sustained heavy damage after a lightning strike ignited a fire. No injuries were reported.

Hampshire County
Easthampton
27 1538EST
0 0
12K
Thunderstorm Wind (G50)

Worcester County
Shrewsbury
27 1625EST
0 0
20K
Thunderstorm Wind (G50)

Hampshire County
Belchertown
27 1630EST
0 0
5K
Thunderstorm Wind (G50)

Middlesex County
Wayland
27 1655EST
0 0
5K
Thunderstorm Wind (G50)

Worcester County
Westborough to Shrewsbury
27 1735EST
0 0
15K
Thunderstorm Wind (G50)

27 1752EST

Worcester County
Westborough
27 1741EST
0 0
500K
Lightning

Middlesex County
Weston
27 1745EST
0 0
5K
Thunderstorm Wind (G50)

Middlesex County
Lowell to Billerica
27 2000EST
0 0
25K
Lightning

27 2110EST

Suffolk County
Winthrop
27 2010EST
0 0
100K
Lightning

Severe thunderstorms moved through parts of central and northeast Massachusetts, with many reports of downed trees, power lines, and large branches from Easthampton to Shrewsbury, Westborough, Weston, and Wayland.

The storms also produced frequent lightning, and lightning strikes caused additional damage in Worcester, Middlesex, and Suffolk Counties. In Westborough, lightning ignited a fire in a utility building at National Grid which caused extensive damage. The five-alarm fire spewed black smoke over Route 9, but never threatened the nearby dispatch center which serves more than 1.6 million customers. Around the same time, lightning struck the attic of a house in Winthrop, causing significant damage. Several lightning strikes were also reported from Lowell to Billerica, causing scattered power outages.

MASSACHUSETTS, West

Berkshire County
North Adams
05 2020EST
0 0
6K
Thunderstorm Wind

Thunderstorms developed along a pre-frontal trough on the evening of June 5. A line of storms moved into Berkshire County. Winds
MASSACHUSETTS, West

from the storms were strong enough to bring down trees in the town of North Adams.

Berkshire County
Richmond 16 1325EST 0 0 10K Thunderstorm Wind
Berkshire County
West Stockbridge 16 1325EST 0 0 Hail(0.75)
Berkshire County
Lenox Dale 16 1333EST 0 0 Hail(1.00)

Thunderstorms developed along an occluded frontal boundary, midday June 16 across western New York state. Their intensity was aided by a large cold pocket of air aloft combined with the strong June midday sunshine. As the storms approached the Hudson Valley of eastern New York, some of them became severe and that trend continued as they progressed further east, into Berkshire County. One inch hail fell in the town of Lenox Dale while dime size hail fell in Stockbridge. Microburst thunderstorm winds downed trees in the town of Richmond, in a path 3/4 of a mile long and 50 yards wide. The storm also removed shingles from a barn, and blew screens off a nearby house. The winds were estimated to be around 75 mph.

Berkshire County
North Adams 17 1801EST 0 0 Hail(1.00)
Berkshire County
New Ashford to Williamstown 17 1916EST 0 0 Hail(1.00)
Berkshire County
Adams 17 1926EST 0 0 Hail(0.75)

For the second day in a row, scattered thunderstorms developed across Berkshire County as the result of a very unstable atmosphere abetted by an unseasonably cold pocket of air aloft. One cell became severe as it brought quarter-size hail to North Adams. Later, that storm deposited one inch hail on the border of Williamstown and New Ashford. Dime size hail was reported in the town of Adams.

MICHIGAN, East

Livingston County
Brighton 14 1540EST 0 0 Hail(0.75)
Oakland County
1 N South Lyon 14 1615EST 0 0 Hail(0.75)

An upper level low pressure system moved across the Great Lakes region on the 14th. Cold air aloft associated with this system caused scattered thunderstorms across eastern Michigan during the afternoon and early evening hours. The strongest storms produced large hail.

St. Clair County
St Clair 17 1343EST 0 0 Hail(0.75)
St. Clair County
St Clair 17 1345EST 0 0 Hail(0.75)
Wayne County
Flat Rock 17 1450EST 0 0 Hail(0.75)
Saginaw County
Fenmore 17 1605EST 0 0 Hail(0.75)
Shiawassee County
Henderson 17 1625EST 0 0 Hail(0.75)
Lapeer County
3 S North Branch 17 1630EST 0 0 Hail(0.75)
Bay County
7 W Linwood 17 1638EST 0 0 Hail(0.75)
Tuscola County
1 S Akron 17 1659EST 0 0 Hail(0.75)
Tuscola County
Caro 17 1710EST 0 0 Hail(0.75)
Storm Data and Unusual Weather Phenomena

Michigan, East

**Tuscola County**
- Kingston: 17 1735EST, Hail(0.75)
- North Branch: 17 1743EST, Hail(0.75)
- Smiths Creek: 17 1750EST, Hail(0.75)
- 4 NW St Clair: 17 1805EST, Hail(0.75)

**Lapeer County**
- Smiths Creek: 17 1750EST, Hail(0.75)

**St. Clair County**
- 4 NW St Clair: 17 1805EST, Hail(0.75)

**Oakland County**
- Ortonville: 17 1846EST, Hail(0.75)

**Tuscola County**
- Law enforcement reported 3 to 4 feet of water over roads on the east side of Adrian.

**Lenawee County**
- Palmyra Township: Lightning struck a home and set it on fire. The home sustained serious damage from the fire.
- Maybee: Thunderstorm Wind (G51)

**Macomb County**
- Ortonville: 17 1846EST, Lightning 30K

**Monroe County**
- Southgate: Flash Flood

A newspaper reported that lightning struck a home in Brandon Township near Ortonville. The lightning hit the garage and set it on fire. No injuries were reported.

---

**Location**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Estimated Damage Property</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 2002</td>
<td></td>
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**Michigan, East**

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- Smiths Creek: 17 1750EST, Hail(0.75)
- 4 NW St Clair: 17 1805EST, Hail(0.75)
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A newspaper reported that lightning struck a home in Brandon Township near Ortonville. The lightning hit the garage and set it on fire. No injuries were reported.

**Tuscola County**
- Millington: 21 1136EST, Hail(0.75)
- Adrian: Lightning struck a home in Palmyra Township. No damage was reported.

**Lenawee County**
- 5 SE Adrian: 21 1300EST, Lightning
  Lightning struck a home and set it on fire. The home sustained serious damage from the fire.
- 3 S Tecumseh: 21 1300EST, Lightning 150K

**Monroe County**
- Maybee: Thunderstorm Wind (G51)
  A wind gust to 60 MPH was measured by a spotter. The spotter also reported that a few large trees had been blown down.

**Washtenaw County**
- Whitaker: 21 1310EST, Hail(1.00)

**Wayne County**
- Hamtramck: 21 1320EST, Hail(0.88)
- Southgate: 21 1338EST, Flash Flood
  A newspaper reported that an estimated 30 city streets were flooded by heavy thunderstorm rains.
- Southgate: 21 1338EST, Thunderstorm Wind (G52)
  Hundreds of trees were damaged by thunderstorm winds.

---

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- Kingston: 17 1735EST, Hail(0.75)
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### MICHIGAN, East

#### Wayne County

**Southgate**  
- **Date**: 21  
- **Time**: 1338EST  
- **Number of Persons Killed**: 0  
- **Number of Persons Injured**: 0  
- **Property Damage**: Thunderstorm Wind (G50)  

Several electrical poles were blown over by thunderstorm winds on Fort Street.

**Wyandotte**  
- **Date**: 21  
- **Time**: 1341EST  
- **Number of Persons Killed**: 0  
- **Number of Persons Injured**: 0  
- **Property Damage**: Hail(1.00)  

A spotter reported numerous trees blown down.

**Monroe County**  
- **Date**: 21  
- **Time**: 1400EST  
- **Property Damage**: Flash Flood  

Law enforcement reported around a foot of standing water over roadways. Very warm and humid air, combined with several weak frontal boundaries across the region, allowed scattered thunderstorms to develop during the afternoon of the 21st. Some of these storms produced hail and very heavy rainfall. Slow storm movement and the intense rainfall led to flooding in some locations. The most persistent heavy rainfall occurred from Adrian to Monroe to the southern suburbs of Detroit, where rainfall rates of 2 inches per hour were reported.

#### Sanilac County

**Decker**  
- **Date**: 22  
- **Time**: 0510EST  
- **Number of Persons Killed**: 0  
- **Number of Persons Injured**: 0  
- **Property Damage**: Thunderstorm Wind (G50)  

Trained spotters reported numerous tree limbs ranging from 3 to 9 inches in diameter were broken off trees due to thunderstorm winds.

**4 S Sandusky**  
- **Date**: 22  
- **Time**: 0539EST  
- **Property Damage**: Lightning  

Lightning struck a barn in Watertown Township and set it on fire.

**2 SW Sandusky**  
- **Date**: 22  
- **Time**: 0540EST  
- **Property Damage**: Lightning  

Lightning struck a barn and caused minor damage.

**9 S Ypsilanti**  
- **Date**: 22  
- **Time**: 1500EST  
- **Property Damage**: Hail(0.75)  

Lightning struck an oak tree. Parts of the tree landed on a trailer and caused minor damage.

**10 W Midland**  
- **Date**: 22  
- **Time**: 1700EST  
- **Property Damage**: Lightning  

Lightning struck an oak tree. Parts of the tree landed on a trailer and caused minor damage.

#### Genesee County

**Otisville**  
- **Date**: 22  
- **Time**: 1800EST  
- **Property Damage**: Thunderstorm Wind (G50)  

Trained spotters reported that thunderstorm winds blew several large tree limbs down. Thunderstorms developed early in the morning along a frontal boundary that extended from central Lower Michigan across the thumb. The strongest storms during the morning occurred in Sanilac county. Although the front exited the region later in the morning, a warm and humid airmass led to additional thunderstorm development during the afternoon across eastern Michigan. A few of these storms produced large hail and damaging winds. The storms also caused hundreds of power outages throughout eastern Michigan.

#### Shiawassee County

**Owosso**  
- **Date**: 25  
- **Time**: 1746EST  
- **Property Damage**: Hail(1.75)  

Spotters reported several trees and telephone poles blown down.

**1 N Corunna**  
- **Date**: 25  
- **Time**: 1750EST  
- **Property Damage**: Thunderstorm Wind (G50)  

Several trees were blown down. One landed on a house.

#### Macomb County

**2 E Romeo**  
- **Date**: 25  
- **Time**: 1800EST  
- **Property Damage**: Thunderstorm Wind (G50)  

Numerous trees were blown down by a thunderstorm.

**4 NE Dexter**  
- **Date**: 25  
- **Time**: 1900EST  
- **Property Damage**: Thunderstorm Wind (G50)  

The Addison Township fire department reported that several trees had blown down in thunderstorm winds.
Several trees were blown down in a thunderstorm. Thunderstorms developed during the afternoon and evening hours across the state. A warm and humid airmass, combined with a weak upper level disturbance, allowed the storms to develop. Some of the storms that developed produced severe wind gusts.

Law enforcement reported several large tree limbs and power lines blown down in thunderstorm winds.

Broadcast media reported some trees blown down and a roof partially blown off due to thunderstorm winds. Scattered thunderstorms developed due to a warm and humid airmass and convergence along lake breeze fronts and a surface trough. A couple of these storms produced severe wind gusts.

A 10 month old girl and her 3-year old brother died after being left along in a closed car in Southfield. Temperatures that day were in the 90s while the children were left in the car. They were in the car approximately 3 hours and died from the extreme heat. M3VE, FIVE

Amateur radio reported trees and power lines down at SR 152 and 140 or 2 miles east of Spinks Corner.

An eight inch diameter tree was blown down.

Four inch diameter trees were blown down.

Three quarter inch diameter hail covered the ground three inches deep.

One inch diameter hail covered the ground three inches deep.

An upper trough interacted with a surface boundary to produce scattered thunderstorms on the afternoon of June 13th. Two of the storms became severe as they moved east northeast across central Upper Michigan, with up to one inch hail and winds to 60 mph.
Thunderstorms ahead of a weak cold front impacted mainly western Upper Michigan overnight on June 19th and into the morning of the 20th. Some of these storms became severe during the early morning of the 20th, with large hail and/or damaging wind gusts in Ontonagon, Houghton and Baraga Counties.

### Storm Data and Unusual Weather Phenomena

#### June 2002

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<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time/Standard</th>
<th>Path Length (Miles)</th>
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<th>Damage to Crops</th>
<th>Character of Storm</th>
</tr>
</thead>
</table>

**MICHIGAN, Upper**

**Houghton County**
- **3 E Bruce Crossing**
  - Date: 20
  - Time: 0220 EST
  - Path Length: 0 (Miles)
  - Path Width: 0 (Yards)
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Damage to Property: Hail (0.75)
  - Damage to Crops: No

**Ontonagon County**
- **7 NW Houghton**
  - Date: 20
  - Time: 0223 EST
  - Path Length: 0 (Miles)
  - Path Width: 0 (Yards)
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Damage to Property: Thunderstorm Wind (G60)
  - Damage to Crops: No

**Baraga County**
- **3 W Baraga**
  - Date: 20
  - Time: 0330 EST
  - Path Length: 0 (Miles)
  - Path Width: 0 (Yards)
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Damage to Property: Thunderstorm Wind (G60)
  - Damage to Crops: No

**Schoolcraft County**
- **Covington**
  - Date: 25
  - Time: 1449 EST
  - Path Length: 0 (Miles)
  - Path Width: 0 (Yards)
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Damage to Property: Hail (0.75)
  - Damage to Crops: No

**Iron County**
- **Ewen**
  - Date: 25
  - Time: 1945 EST
  - Path Length: 0 (Miles)
  - Path Width: 0 (Yards)
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Damage to Property: Thunderstorm Wind (G60)
  - Damage to Crops: No

**Iron County**
- **Iron River**
  - Date: 25
  - Time: 2145 CST
  - Path Length: 0 (Miles)
  - Path Width: 0 (Yards)
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Damage to Property: Thunderstorm Wind (G55)
  - Damage to Crops: No

**Iron County**
- **Alpha**
  - Date: 25
  - Time: 2208 CST
  - Path Length: 0 (Miles)
  - Path Width: 0 (Yards)
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Damage to Property: Thunderstorm Wind (G60)
  - Damage to Crops: No

**Dickinson County**
- **Felch**
  - Date: 25
  - Time: 2245 CST
  - Path Length: 0 (Miles)
  - Path Width: 0 (Yards)
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Damage to Property: Thunderstorm Wind (G55)
  - Damage to Crops: No

**Marquette County**
- **Northland**
  - Date: 25
  - Time: 2350 EST
  - Path Length: 0 (Miles)
  - Path Width: 0 (Yards)
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Damage to Property: Hail (1.75)
  - Damage to Crops: No

**Delta County**
- **6 SE Rock**
  - Date: 26
  - Time: 0030 EST
  - Path Length: 0 (Miles)
  - Path Width: 0 (Yards)
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Damage to Property: Hail (1.00)
  - Damage to Crops: No

**Schoolcraft County**
- **8 S Steuben**
  - Date: 26
  - Time: 0110 EST
  - Path Length: 0 (Miles)
  - Path Width: 0 (Yards)
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Damage to Property: Thunderstorm Wind (G60)
  - Damage to Crops: No

A warm front moved north of Upper Michigan on June 25th. Daytime temperatures rose well into the 80s away from the cooling influence of the Great Lakes. The uncomfortable heat and humidity triggered the development of scattered thunderstorms. Some of these storms were severe, and penny-sized hail fell at Germfask in Schoolcraft County and Covington in Baraga County during the late afternoon. Another round of locally severe thunderstorms ripped across Upper Michigan overnight on the 25 and 26th, well in advance of an approaching cold front. These storms felled large trees at Ewen in Ontonagon County, at Iron River and Alpha in Iron County, and at Felch in Dickinson County. Hail the size of quarters fell near Rock in Delta County. Northland in southern Marquette County was bombarded by even larger hailstones, estimated by spotters to be the size of golf balls.
MICHIGAN, West

**Allegan County**
- **Wayland**
  - Location: Wayland
  - Date: 15 June 1758 EST
  - Path Length: Three quarters inch hail was reported by trained spotters 3 miles west of Wayland.
  - Path Width: 2K
  - Number of Persons Killed: 2K
  - Number of Persons Injured: 2K
  - Estimated Damage: Hail(0.75)

**Ottawa County**
- **Holland**
  - Location: Holland
  - Date: 15 June 1800 EST
  - Path Length: Three quarters inch hail was also reported by the public near Holland just north of the Allegan and Ottawa county line.
  - Path Width: 2K
  - Number of Persons Killed: 2K
  - Number of Persons Injured: 2K
  - Estimated Damage: Hail(0.75)

**Isabella County**
- **Beal City**
  - Location: Beal City
  - Date: 17 June 1430 EST
  - Path Length: An isolated severe thunderstorm developed over Lake Isabella in Isabella county during the early afternoon hours, and local area law enforcement reported one and three quarters inch hail with the storm.
  - Path Width: 5K
  - Number of Persons Killed: 5K
  - Number of Persons Injured: 5K
  - Estimated Damage: Thunderstorm Wind (G53)

**Clinton County**
- **Eagle**
  - Location: Eagle
  - Date: 25 June 1731 EST
  - Path Length: Severe thunderstorm wind gusts blew down several trees along Grand River Avenue in the extreme southwest corner of Clinton county.
  - Path Width: 5K
  - Number of Persons Killed: 5K
  - Number of Persons Injured: 5K
  - Estimated Damage: Thunderstorm Wind (G53)

MINNESOTA, Central and South Central

**Nicollet County**
- **Nicollet**
  - Location: Nicollet
  - Date: 03 July 0200 CST
  - Path Length: Ground white.
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: Hail(0.88)

**Nicollet County**
- **St Peter**
  - Location: St Peter
  - Date: 03 July 2152 CST
  - Path Length: Ground white.
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: Hail(0.88)

**Le Sueur County**
- **2 NE Kasota**
  - Location: 2 NE Kasota
  - Date: 03 July 2200 CST
  - Path Length: Ground white.
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: Hail(1.00)

**Brown County**
- **3 SE Searles**
  - Location: 3 SE Searles
  - Date: 03 July 2235 CST
  - Path Length: Ground white.
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: Hail(0.75)

**Blue Earth County**
- **3 SW Cambria**
  - Location: 3 SW Cambria
  - Date: 03 July 2240 CST
  - Path Length: Ground white.
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: Hail(0.75)

**Kandiyohi County**
- **3 W Spicer**
  - Location: 3 W Spicer
  - Date: 06 July 1810 CST
  - Path Length: Ground white.
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: Hail(1.75)

**Wright County**
- **Maple Lake**
  - Location: Maple Lake
  - Date: 06 July 1900 CST
  - Path Length: Ground white.
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: Hail(0.75)

**Stearns County**
- **3 SW Lake Henry**
  - Location: 3 SW Lake Henry
  - Date: 06 July 1902 CST
  - Path Length: Ground white.
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: Hail(0.75)

**Kandiyohi County**
- **Hawick**
  - Location: Hawick
  - Date: 06 July 1903 CST
  - Path Length: Ground white.
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: Hail(0.75)

**Wright County**
- **5 N Howard Lake**
  - Location: 5 N Howard Lake
  - Date: 06 July 1913 CST
  - Path Length: Ground white.
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: Hail(1.00)

**Wright County**
- **Waverly**
  - Location: Waverly
  - Date: 06 July 1913 CST
  - Path Length: Ground white.
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: Hail(1.00)

**Stearns County**
- **Paynesville**
  - Location: Paynesville
  - Date: 06 July 1916 CST
  - Path Length: Ground white.
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: Hail(0.75)

**Meeker County**
- **Litchfield**
  - Location: Litchfield
  - Date: 06 July 1922 CST
  - Path Length: Ground white.
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: Hail(1.75)
## Storm Data and Unusual Weather Phenomena

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<td>Meeker County</td>
<td>06</td>
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<tr>
<td>3 E Eden Vly</td>
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<tr>
<td>Meeker County</td>
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<td>3 W Watkins</td>
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<td>5 W Young America</td>
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<td>1750 CST</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G50)</td>
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<td>4 S Dunnell</td>
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<td>Thunderstorm Wind (G52)</td>
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<td>Thunderstorm Wind (G50)</td>
<td>Few trees down.</td>
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</table>

146
MINNESOTA, Central and South Central

Hennepin County
- Orono: 10 2225 CST, Few trees down.
- Bloomington: 10 2239 CST, At Highway 100 and Interstate 494.
- Richfield: 10 2240 CST, At Highway 62 and Interstate 35W.
- Mendota Hghts: 10 2250 CST, Large tree limb down across road.

Scott County
- 1 E Blakeley: 10 2237 CST, Hail(0.75)

Steele County
- Total rainfall of 3.5 to 5 inches fell across much of the county, mainly from Delavan to Frost and Walters. Water covered a few roads in several townships, and washed away 35 acres of corn near Frost.

Dakota County
- 1 S Shieldsville: 10 2332 CST, Hail(0.88)

Swift County
- 2 W Kensington: 19 1815 CST, Hail(0.75)

Todd County
- 9 E Long Prairie: 19 0855 CST, Hail(0.75)
- 3 NW Flensburg: 19 0900 CST, Hail(0.75)

Douglas County
- 2 W Kensington: 19 1745 CST, Hail(1.00)
- 4 SW Hancock: 19 1810 CST, Hail(1.00)

Stearns County
- 4 W Sauk Centre: 19 1820 CST, Tree down.

Morrison County
- 3 NW Flensburg: 19 0900 CST, Hail(0.75)

Pope County
- 7 S Cyrus: 19 1815 CST, Hail(0.75)

Faribault County
- Blue Earth: 11 0100 CST, 0300 CST, Flash Flood
- Countywide: 18 0200 CST, 0330 CST, Flash Flood

Rice County
- 1 S Shieldsville: 10 2332 CST, Hail(0.88)

Waseca County
- 8 N Waseca: 12 1514 CST, Hail(0.88)

Waseca County
- Two feet of water on city streets. Manhole covers blown off sewers.

Pope County
- 7 S Cyrus: 19 1815 CST, Hail(0.75)

Douglas County
- 2 W Kensington: 19 1745 CST, Hail(1.00)

Stearns County
- 4 W Sauk Centre: 19 1858 CST, Tornado (F0)

Brief touchdown in open field witnessed by broadcast meteorologist.

Stearn County
- 4 W Sauk Centre: 19 1858 CST, 1900 CST, 0.3, 25, 0, 0, Tornado (F0)
MINNESOTA, Central and South Central

Stearns County
3 W Freeport 19 1919CST 0 0 Funnel Cloud
Stearns County
Sartell 19 2010CST 0 0 Funnel Cloud
Stearns County
St Cloud 19 2018CST 0.1 25 0 0 Tornado (F0)
Brief touchdown in Hester Park along the Mississippi River. Few trees down.

Mcleod County
Glencoe 19 2210CST 0 0 Hail(0.75)
Mcleod County
4 N Glencoe 19 2236CST 0 0 Hail(0.75)
Mcleod County
Plato 19 2240CST 0 0 Hail(0.75)
Mcleod County
3 SW Lester Prairie 19 2253CST 0 0 Hail(0.75)

Goodhue County
West Portion 21 0630CST 1000CST 0 0 200K Flash Flood
Over four inches rain fell in the western half of Goodhue County Friday morning on the 21st. Two state highways were closed, over one dozen roads under water from Welch and Cannon Falls to Sogn, Kenyon, Wanamingo and Skyberg. Two campgrounds were evacuated as a precaution. One road was washed out.

Wright County
Southeast Portion 21 0808CST 1100CST 0 0 Flash Flood
Two highways and several township roads were covered with two to three feet of water, in an area from two miles south of Montrose to Rockford.

Kandiyohi County
Central Portion 21 0900CST 1100CST 0 0 Flash Flood
Numerous intersections were flooded with two to three feet of water in Willmar, and street flooding was reported in Atwater. Water in the parking lot at Kandi Mall nearly submerged one car.

Meeker County
Countywide 21 0900CST 1100CST 0 0 Flash Flood
Three roads were covered with water and closed by local officials. Another road was washed in the wake of rains that totalled three to six inches.

Goodhue County
Southeast Portion 21 1045CST 1200CST 0 0 200K Flash Flood
A second bout of heavy rainfall fell just hours after two to three inches had already soaked southeast Goodhue County. About one dozen county roads were under water from Roscoe and Pine island to Zumbrota and Mazeppa. The lumber yard at Pine Island was flooded, but much of the lumber had already been moved to higher ground due to the warning. A city park at Zumbrota was also flooded, resulting in damage to softball fields and a trail.

MNZ078
Goodhue
21 1200CST 1400CST 0 0 100K Flood
The heavy rains on June 21st led to flooding of several rivers in Goodhue County. In Cannon Falls, along the Cannon River, Minnieska park was flooded, uprooting trees, destroying a bike path and damaging a retaining wall. The flooding hit its peak at 1830 on the 21st, but since officials knew it was coming, the artesian well had been shut down thereby preventing any damage to that system. In the wake of flooding on the North Fork of the Zumbro River, the State Highway 57 bridge at Wanamingo was closed for several days to allow engineers a thorough inspection.

Redwood County
1 SW Seaforth 21 1400CST 0 0 Hail(1.00)
Redwood County
Vesta 21 1400CST 0 1 Lightning
Lightning struck a machine shop in which a man was working. Some electricity traveled through a hoist and hydraulic hose that the man was holding, entered his body through one arm and exited out the other. Although struck, the injury was not serious.

**MINNESOTA, Central and South Central**

**Anoka County**
- **Coon Rapids**
  - Date: 24
  - Time: 1439 CST, 1443 CST
  - Hail (1.00)

**Hennepin County**
- **Brooklyn Center**
  - Date: 24
  - Time: 1440 CST
  - Hail (0.75)

**Anoka County**
- **Blaine**
  - Date: 24
  - Time: 1447 CST
  - Hail (1.75)

**Stearns County**
- **New Munich**
  - Date: 24
  - Time: 1510 CST
  - Hail (1.00)

**Stearns County**
- **3 N Avon**
  - Date: 24
  - Time: 1535 CST
  - Hail (0.75)

**Stearns County**
- **Jacobs Prairie**
  - Date: 24
  - Time: 1548 CST
  - Hail (0.75)

**Sherburne County**
- **1 S Princeton**
  - Date: 24
  - Time: 1610 CST
  - Six inch branches down.

  - Time: 1642 CST
  - Hail (0.88)

**Anoka County**
- **East Bethel**
  - Date: 24
  - Time: 1705 CST
  - Few trees down.

**Anoka County**
- **St Francis**
  - Date: 24
  - Time: 1705 CST
  - Hail (0.88)

**Wright County**
- **Cokato**
  - Date: 24
  - Time: 1850 CST
  - Hail (0.75)

**Meeker County**
- **Cosmos**
  - Date: 24
  - Time: 1852 CST
  - Hail (1.75)

**Meeker County**
- **3 N Hutchinson**
  - Date: 24
  - Time: 1855 CST
  - Hail (1.75)

**Meeker County**
- **3 N Hutchinson**
  - Date: 24
  - Time: 1855 CST
  - Few trees down.

**Wright County**
- **2 SE Annandale**
  - Date: 24
  - Time: 1900 CST
  - Tree down on road.

  - Time: 1905 CST
  - Numerous trees down, including one on a garage.

**Wright County**
- **1 S Howard Lake**
  - Date: 24
  - Time: 1908 CST
  - Hail (1.00)

**Wright County**
- **Annandale**
  - Date: 24
  - Time: 1910 CST
  - Trees down: one was partially blocking a road.

**Wright County**
- **2 N Howard Lake**
  - Date: 24
  - Time: 1910 CST
  - Trees down, including one on shed.

**Wright County**
- **5 N Howard Lake**
  - Date: 24
  - Time: 1910 CST
  - Thunderstorm Wind (G50)
### Storm Data and Unusual Weather Phenomena

**June 2002**

#### Location: MINNESOTA, Central and South Central

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Killed</th>
<th>Number of Injured</th>
<th>Estimated Damage Property</th>
<th>Crops</th>
<th>Character of Storm</th>
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<td></td>
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<td>Few trees down and power lines down.</td>
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<td>3 SE Dassel</td>
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<td>Large tree down in road.</td>
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<td>3 SE Hector</td>
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<td>Grain bins blown over, numerous trees down.</td>
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<tr>
<td>3 W Delano</td>
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<td>Few trees down.</td>
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<td>Few trees and power lines down.</td>
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<tr>
<td>Howard Lake</td>
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<td>Tree blown onto shed.</td>
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<td>50K</td>
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<td>5 SW Delano</td>
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<td>Tornado touched down briefly, knocking down trees and damaging two houses. One house had a roof blown off while the other had damage to siding and shingles.</td>
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<tr>
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<tr>
<td>Isanti</td>
<td></td>
<td></td>
<td>Street flooding in St. Cloud and Waite Park. Water was about two feet deep.</td>
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<tr>
<td>Wright County</td>
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<td>0</td>
<td>Flash Flood</td>
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<tr>
<td>Countywide</td>
<td></td>
<td></td>
<td>Four inches of rain in less than two hours resulted in water two to three feet deep in the city of Isanti.</td>
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</tbody>
</table>

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MINNESOTA, Central and South Central

Just three days after a heavy rainfall and flash flooding on the 21st, four to seven inches were widespread across Wright County, and there was an unofficial report of ten inches in less than six hours. Dozens of roads were closed, and many experienced washouts. A cabin at Waverly was pushed off its foundation by a mudslide. One home in Howard Lake sustained severe damage from a mudslide. A mobile home park in Howard Lake was flooded; 17 families were displaced by the water. Over 100 homes in Howard Lake had flooded basements. Some businesses and homes in Delano and Montrose were flooded. In Annandale, ten vehicles were submerged and numerous basements flooded. An auto dealership in Buffalo lost about 270 vehicles when flood waters soaked their lot. Dozens of basements were flooded in Buffalo and Maple Lake. Local agricultural officials estimate as much as 25% of the crops were lost, and 650 farms experienced losses.

Carver County
Watertown 24 2200CST 2300CST 0 0 Flash Flood

Three to four inches of rain covered roads and resulted in a number of basements with water.

McLeod County
Winsted 24 2200CST 2300CST 0 0 Flash Flood

Basements were flooded and roads covered in the wake of a quick three to four inches of rain.

Hennepin County
Corcoran 24 2230CST 2330CST 0 0 Flash Flood

Three to five inches of rain resulted in the washout of one road and closure of two others.

Meeker County
Countywide 25 0010CST 0300CST 0 0 200K Flash Flood

Four to six inches of rain affected the northern and eastern portions of Meeker County. Ten roads were closed, and 5 others were covered with some water. A culvert washed out 3 NW Kingston, leading to a section of State Highway 24 collapsing. One family had to be rescued from a car 4 W Kingston. Water was over roads at Dassel, and numerous basements were flooded in Litchfield and Grove City.

Hennepin County
West Central Portion 25 0030CST 0300CST 0 0 Flash Flood

Four to six inches of rain resulted in a mudslide at Rebecca Park (south of Rockford), a road covered with water at Independence, and sandbagging of home along Lake Sarah in Orono.

Carver County
Northwest Portion 25 0100CST 0300CST 0 0 100K Flash Flood

Four to six inches of rain closed numerous roads, including State Highway 25 2 miles northwest of Watertown. This highway, and ten other county and township roads, were closed several days for repairs. Mapes Creek in Watertown flooded, resulting in numerous flooded basements in the Ortloff Addition. Two other cities in northwest carver County that were hit with flooding include New Germany and Hamburg.

McLeod County
Countywide 25 0100CST 0300CST 0 0 800K Flash Flood

Four to six inches rain flooded much of northern and eastern McLeod County, mainly along and northeast of a line from Hutchinson to 4 S Glencoe. Ten roads were covered with water. Ditches and creeks overflowed near Winsted and Lester Prairie. One home in Lester Prairie was flooded. A few homes required sandbagging, and nearly 300 houses had their basements flooded. Thousands of acres of farmland were flooded. Water damaged much of the school in Silver Lake.

Lac Qui Parle County
12 S Marietta 25 1610CST 0 0 Hail(0.75)

Kanabec County
10 N Mora 25 1652CST 1702CST 0 0 Hail(1.75)

Kanabec County
4 N Quamba 25 1705CST 0 0 Hail(1.00)

Benton County
Gilman 25 1712CST 0 0 Hail(1.75)
## Storm Data and Unusual Weather Phenomena

June 2002

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time/Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
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MINNESOTA, Central and South Central

Trees down.

Lac Qui Parle County
Dawson to 2 W Boyd
25  1855CST  0  0  Thunderstorm Wind (G55)
Path up to 1 mile wide. Crop Damage. Large trees down. Power lines down.

Lac Qui Parle County
Dawson
25  1902CST  0  0  Hail(0.75)

Lac Qui Parle County
4 SE Dawson
25  1905CST  0  0  Hail(1.50)

Lac Qui Parle County
2 S Boyd to 4 SSE Boyd
25  1910CST  1.5 100  0  0  10K  Tornado (F1)
Tornado embedded within a rain-wrapped storm was videotaped as it crossed open country. The tornado continued into Yellow Medicine County.

Yellow Medicine County
3 WNW Clarkfield to 2 S Clarkfield
25  1914CST  4 100  0  0  50K  Tornado (F1)
Tornado started in Lac Qui Parle County and ended in Yellow Medicine County. It destroyed one third of a turkey barn south of Clarkfield.

Lac Qui Parle County
2 W Boyd
25  1915CST  0  0  Hail(1.00)

Lac Qui Parle County
Boyd
25  1915CST  0  0  Hail(0.75)

Lac Qui Parle County
Boyd
25  1915CST  0  0  Thunderstorm Wind (G52)
Few trees down, including one through roof of house.

Yellow Medicine County
4 N Clarkfield
25  1920CST  0  0  Hail(0.75)

Yellow Medicine County
Clarkfield
25  1920CST  0  0  Thunderstorm Wind (G60)
Few trees down. Mobile construction office tipped over.

Yellow Medicine County
Hazel Run
25  1930CST  0  0  Thunderstorm Wind (G60)
Silo destroyed; few trees down.

Yellow Medicine County
Hanley Falls
25  1936CST  0  0  750K  Thunderstorm Wind (G60)
Three large grain bins dented, ham radio tower down, numerous trees down. Minor damage to roofs and windows of houses.

Yellow Medicine County
Wood Lake
25  1943CST  0  0  Thunderstorm Wind (G65)
Numerous trees down; wood and steel pieces thrown around lumber yard.

Yellow Medicine County
Echo
25  1950CST  0  0  Thunderstorm Wind (G55)
Few trees down. This was the last severe weather event to be reported from an intense high-precipitation supercell that tracked southeast. The storm produced severe weather for approximately 60 miles across Lac Qui Parle and Yellow Medicine Counties. An NWS damage survey was performed from Dawson to Boyd (Lac Qui Parle County); the damage was such that a tornado could neither be proved nor disproved. Video from a meteorologist indicated there was a tornado from south of Boyd to south of Clarkfield (see related entry).

Isanti County
8 SW Cambridge
25  1815CST  0  0  Hail(0.75)

Isanti County
Isanti
25  1821CST  0  0  Hail(1.75)
MINNESOTA, Central and South Central

Isanti County
- 4 E Isanti to 5 E Isanti: 25 June 1830 CST to 1833 CST, Path Length 1 Mile, Path Width 100 Yards, 0 Killed, 0 Injured, Tornado (F1)
  Burn roof off, hundreds of trees toppled, few sheds down.

Anoka County
- 3 NE Linwood: 25 June 1835 CST, Path Length 0 Miles, Path Width 0 Yards, 0 Killed, 0 Injured, Funnel Cloud
- 3 NE Linwood: 25 June 1835 CST, Path Length 0 Miles, Path Width 0 Yards, 0 Killed, 0 Injured, Hail (1.00)
- 3 N Linwood: 25 June 1835 CST, Path Length 0 Miles, Path Width 0 Yards, 0 Killed, 0 Injured, Thunderstorm Wind (G50)
  Few trees down.

Isanti County
- 1 E Blomford: 25 June 1840 CST, Path Length 0 Miles, Path Width 0 Yards, 0 Killed, 0 Injured, Hail (0.88)

Chisago County
- Chisago City: 25 June 1843 CST, Path Length 0 Miles, Path Width 0 Yards, 0 Killed, 0 Injured, Hail (1.75)
- North Branch: 25 June 1845 CST, Path Length 0 Miles, Path Width 0 Yards, 0 Killed, 0 Injured, Hail (0.75)
- Wyoming: 25 June 1850 CST, Path Length 0 Miles, Path Width 0 Yards, 0 Killed, 0 Injured, Funnel Cloud
- Wyoming to 6 S Center City: 25 June 1850 CST to 1900 CST, Path Length 5 Miles, Path Width 0 Yards, 0 Killed, 0 Injured, Thunderstorm Wind (G65)
  5 mile wide swath with scattered trees down. A few trees fell on cars, houses, and sheds.

Chisago County
- 3 S Chisago City: 25 June 1900 CST, Path Length 0 Miles, Path Width 0 Yards, 0 Killed, 0 Injured, Hail (1.75)
  Hail dented car.

Washington County
- Scandia: 25 June 1903 CST, Path Length 0 Miles, Path Width 0 Yards, 0 Killed, 0 Injured, Thunderstorm Wind (G52)
  Trees and power lines down. This was the last event in Minnesota associated with this supercell, but it did continue into west central Wisconsin, producing large hail and wind damage as far as 4 SE Deer Park (St. Croix County). This storm spawned one tornado and two funnel clouds in Minnesota (in Isanti, Anoka and Chisago Counties).

MINNESOTA, Northeast

Koochiching County
- Ranier: 09 June 2015 CST, Path Length 0 Miles, Path Width 0 Yards, 0 Killed, 0 Injured, Thunderstorm Wind (G50)
  Trees were blown down in the City Beach area.

Koochiching County
- Loman: 09 June 2300 CST to 10 June 0630 CST, Path Length 0 Miles, Path Width 0 Yards, 0 Killed, 0 Injured, Flood
  Three to six inches of rain overnight in northern Koochiching caused most roads in that area to become water-covered. Small streams overflowed their banks and 139 homes were damaged.

Koochiching County
- International Falls: 09 June 2310 CST, Path Length 0 Miles, Path Width 0 Yards, 0 Killed, 0 Injured, Hail (0.88)

Cass County
- 3 E Cass Lake: 14 June 1815 CST, Path Length 0 Miles, Path Width 0 Yards, 0 Killed, 0 Injured, Thunderstorm Wind (G50)
  Trees were blown down.

Cass County
- 4 NW Longville: 14 June 1820 CST, Path Length 0 Miles, Path Width 0 Yards, 0 Killed, 0 Injured, Hail (0.75)

Aitkin County
- Aitkin: 19 June 0100 CST, Path Length 0 Miles, Path Width 0 Yards, 0 Killed, 0 Injured, Lightning
  Lightning striking a tree caused electrical damage to a nearby home.
MINNESOTA, Northeast

Itasca County
Bovey 22 1320CST 0 0 Thunderstorm Wind (G50)
Large trees and branches were blown down.

St. Louis County
2 NW Eveleth 22 1422CST 0 0 Hail(1.75)

St. Louis County
3 S Hibbing 22 1422CST 0 0 Hail(1.75)
Golfball size hail was also reported 8 miles south of Hibbing at 2:25 pm CST.

St. Louis County
Hibbing 22 1425CST 0 0 Thunderstorm Wind (G60)
Numerous trees were blown down.

St. Louis County
Cotton 22 1455CST 0 0 Hail(1.00)

Itasca County
Warba 22 1510CST 0 0 Hail(1.00)

Itasca County
8 SE Grand Rapids 22 1515CST 0 0 Thunderstorm Wind (G60)
Numerous trees were blown down 6 miles southeast of Lake Pokegama and 3 miles southwest of Blackberry

Itasca County
Keewatin 22 1520CST 0 0 Thunderstorm Wind (G60)
Several trees were blown down.

Itasca County
1 E Grand Rapids 22 1540CST 0 0 Thunderstorm Wind (G55)
The high winds caused tree damage.

St. Louis County
8 NW Duluth 22 1717CST 0 0 Thunderstorm Wind (G55)
High thunderstorms winds blew several hundred trees down from Twig through Grand Lake.

St. Louis County
Proctor 22 1830CST 0 0 Hail(1.00)
Three-quarter inch hail was also reported three miles south of Duluth.

Itasca County
Grand Rapids 22 1930CST 0 0 Flash Flood
23 0000CST

St. Louis County
Virginia 22 1930CST 0 0 Flash Flood
23 0000CST
Numerous roads across the Iron Range were washed out due to very heavy rain of 5 to 8 inches.

St. Louis County
Hibbing 22 1935CST 0 0 Hail(0.75)
24 1935CST

MNZ037
Southern St. Louis / Carlton 23 1200CST 0 0 Flood
28 1130CST
The Floodwood River at Floodwood rose to 20.3 feet (flood stage is 14.0 feet), flooding Sixth Avenue.

MNZ037
Southern St. Louis / Carlton 24 0500CST 0 0 Flood
27 1145CST
The St. Louis River at Scanlon crested at 11.8 feet, 1.3 feet above flood stage, causing minimal damage.

Cass County
3 S Walker 24 2200CST 0 0 Thunderstorm Wind (G50)
Numerous trees were blown down.
MINNESOTA, Northeast

MNZ037  Southern St. Louis / Carlton
25  1103CST  0  0  Flood
27  0930CST

Minor flooding of the Fon du Lac neighborhood of Duluth was due to water being released from the Thomson Dam, located upstream. At the peak of the event, releases from the dam were 26,258 cfs.

Koochiching County
Big Falls  25  1554CST  0  0  Hail(0.75)

Pine County
1 SW Hinckley  25  1707CST  0  0  Hail(1.00)
1720CST

Pine County
5 E Beroun  25  1800CST  0  0  Hail(1.00)

Nickel size hail was reported in Beroun at 5:56 pm CST.

Carlton County
Cloquet  26  0430CST  0  0  500K  Lightning

Lightning started a fire at an auto body shop, which destroyed the business.

MINNESOTA, Northwest

Norman County
3 N Ada  08  2315CST  0  0  Thunderstorm Wind (G65)

A 75 mph wind gust was reported, which caused some roof damage.

Mahnomen County
5 E Waubun  09  0040CST  0  0  Hail(0.75)

Becker County
3 NW Ogema  09  0100CST  0  0  Hail(0.75)

Norman County
9 NE Ada  09  0225CST  0  0  3K  Thunderstorm Wind (G70)

Trees were blown down and a window was blown out.

Norman County
Ada  09  0244CST  0  0  3K  Thunderstorm Wind

Trees were blown down in Ada.

Norman County
6 E Ada  09  0300CST  0.2  25  0  0  20K  Tornado (F1)

A roof was torn off a farm building and scattered in nearby trees.

Norman County
Gary  09  0300CST  0  0  20K  Thunderstorm Wind

A church steeple was blown off.

Mahnomen County
4 N Mahnomen  09  0315CST  0  0  10K  Thunderstorm Wind (G70)

Windows were broken and a shed door was torn off.

Clay County
3 NE Ulen  09  0330CST  0  0  Hail(1.75)

Clay County
3 NE Ulen  09  0330CST  0  0  2K  Thunderstorm Wind

12 inch diameter tree limbs were blown down.

Mahnomen County
3 S Mahnomen  09  0330CST  0  0  50K  Thunderstorm Wind

One airplane hanger was destroyed as well as the airplane inside. Another hanger was severely damaged.

Norman County
Twin Vly  09  0330CST  0  0  100K  Thunderstorm Wind

Steel power transmission poles were blown down.
MINNESOTA, Northwest

Red Lake County
Red Lake Falls 09 0338CST 0 0 100K Lightning
Lightning hit the county courthouse, which also houses the sheriff's department. The department's computers, phone lines, and 911 system were damaged.

Becker County
6 W Ogema 09 0400CST 0 0 0.20K Thunderstorm Wind
Large branches were blown down.

Norman County
6 SE Twin Vly 09 0404CST 0 0 Hail(0.75)

Clay County
4 E Ulen 09 0415CST 0 0 Hail(0.75)

Polk County
Crookston 09 0430CST 0 0 Lightning
A lightning strike knocked out the Polk county 911 system.

Red Lake County
Red Lake Falls 09 0430CST 0 0 Flash Flood
Roads were washed out by the heavy rains.

Mahnomen County
Bejou 09 0454CST 0 0 1K Thunderstorm Wind
Trees were blown down.

Clay County
3 E Ulen 09 0500CST 0 0 Hail(0.75)

Clay County
3 E Ulen 09 0500CST 0 0 0.20K Thunderstorm Wind
Tree limbs were blown down.

Mahnomen County
5 W Mahnomen 09 0500CST 0 0 Flash Flood
Highway 200 was flooded by water. Travel in Mahnomen county was not advised, as many other county roads were washed out. Many basements flooded and farm fields were submerged.

Norman County
3 SW Flom 09 0500CST 0 0 Hail(1.75)

Norman County
5 W Syre 09 0505CST 0 0 Flash Flood

Mahnomen County
Mahnomen 09 0507CST 0 0 Thunderstorm Wind (G58) M
A MN DOT RWIS site measured a 67 mph wind gust.

Mahnomen County
5 W Waubun 09 0530CST 0 0 Hail(1.75)

Polk County
5 E Crookston 09 0530CST 0 0 Flash Flood
U.S. Highway 2 was covered with water.

Polk County
Fosston 09 0530CST 0 0 Flash Flood
County roads were washed out.

Becker County
3 W Ogem 09 0600CST 0 0 Hail(0.75)
### Storm Data and Unusual Weather Phenomena

**Location**

- **MINNESOTA, Northwest**

**Becker County**

- **5 W Ogema**
  - Date: 09
  - Time: 0600CST
  - Character: Hail(1.50)

**Norman County**

- **3 SW Flom**
  - Date: 09
  - Time: 0645CST
  - Character: Flash Flood

  County road 3 was washed out by the heavy rain. Travel was not advised across Norman county, due to the large numbers of roads washed out. Basements flooded and many fields were submerged.

**Becker County**

- **4 W Ogema**
  - Date: 09
  - Time: 0700CST
  - Character: Flash Flood

  Several county roads were washed out.

**Clay County**

- **Moorhead**
  - Date: 09
  - Time: 0700CST
  - Character: Flash Flood

  Interstate 94 was flooded at mile point 2. Many streets in the Village Green area were flooded and some were closed by high water levels.

**Clay County**

- **Ulen**
  - Date: 09
  - Time: 0700CST
  - Character: Flash Flood

  County roads were flooded by the heavy rain.

**Clearwater County**

- **3 E Zerkel**
  - Date: 09
  - Time: 0715CST
  - Character: Hail(0.75)

**Clearwater County**

- **3 E Zerkel**
  - Date: 09
  - Time: 0715CST
  - Character: Lightning

  Damage to a home was reported from a lightning strike.

**Beltrami County**

- **7 W Jelle**
  - Date: 09
  - Time: 0720CST
  - Character: Thunderstorm Wind

  Tree limbs were blown down.

**Hubbard County**

- **2 NW Becida**
  - Date: 09
  - Time: 0730CST
  - Character: Thunderstorm Wind

  Tree limbs were blown down by the wind.

**Becker County**

- **9 N Ponsford**
  - Date: 09
  - Time: 0755CST
  - Character: Hail(0.88)

**Clearwater County**

- **1 ESE Lake Itasca**
  - Date: 09
  - Time: 0815CST
  - Character: Hail(0.75)

**Clearwater County**

- **Zerkel**
  - Date: 09
  - Time: 1000CST
  - Character: Flash Flood

  Water covered highway 200.

**Pennington County**

- **Thief River Falls**
  - Date: 09
  - Time: 1200CST
  - Character: Flash Flood

  Many rural roads were under water.

**Polk County**

- **Crookston**
  - Date: 09
  - Time: 1200CST
  - Character: Flash Flood

  Numerous county roads were under water.

**Polk County**

- **7 NNE East Grand Forks**
  - Date: 09
  - Time: 1246CST
  - Character: Hail(0.75)

**Red Lake County**

- **Red Lake Falls**
  - Date: 09
  - Time: 1340CST
  - Character: Flash Flood

  Numerous rural roads were under water.
MINNESOTA, Northwest

Marshall County
Newfolden 09 1500CST/1800CST 0 0 Flash Flood
Street flooding was reported.

Pennington County
Erie 09 1500CST/1900CST 0 0 Flash Flood
Several county roads were under 1 to 2 feet of water.

Red Lake County
Plummer 09 1500CST/1800CST 0 0 Flash Flood
The intersection of county road 1 and highway 59 was under water.

Lake Of The Woods County
15 S Baudette 09 1911CST 0 0 Hail(1.00)

Lake Of The Woods County
Clementson 09 1923CST 0 0 Hail(0.75)

Lake Of The Woods County
Baudette 09 2205CST/2305CST 0 0 Flash Flood
County roads 65, 66, and 3 were washed out in spots.

MNZ002
Norman 09 0700CST/30 2359CST 0 0 3M 36M Flood
Heavy rainfall on the 8th and 9th caused widespread flooding over Norman county. Unofficial reports of up to 12 inches of rain were received. This caused the Wild Rice River at Twin Valley to rise to a level of 17.4 feet on the 9th. The Wild Rice River peaked at Hendrum on the 13th at 28.02 feet. At Shelly, the Marsh River rose to 24.92 feet on the 12th. Another round of heavy rain fell on the 22nd and 23rd, causing the rivers to surge once again. Once again, reports of 8 to 12 inches of rain were received. This time, the Wild Rice River at Twin Valley rose to 18.95 feet on the 24th, a new record stage. At Hendrum, the river rose back to 26.48 feet on the 28th. At Shelly, the Marsh River rose back to 24.37 feet on the 27th. Governor Ventura called out the National Guard to help in the county's flood fight. Ada, Twin Valley, and Hendrum had fought record flooding back in the spring of 1997 and summer flooding in 2000. The flooding was not only confined to the rivers, but thousands of acres of cropland were flooded due to overland flooding. An estimated 100,000 acres of crops were destroyed. 80 percent of the roads and bridges in the county sustained damage valued at $1.7 million dollars. County watershed projects were also damaged, at a cost of around $1 million dollars. The Heiberg Dam near Twin Valley was quickly eliminated, as the power of the river created a new channel around the dam. Norman county received a Presidential disaster declaration.

MNZ022
Mahnomen 09 0800CST/30 2359CST 0 0 Flood
Heavy rainfall on the 8th and 9th caused flooding problems over Mahnomen county. Unofficial reports of 8 to 12 inches of rain were received. The heaviest amounts of rain fell over the southwest portion of the county, which led to more river flooding downstream of the city of Mahnomen. Even so, 100 homes in the city of Mahnomen had some basement flooding. Then, a second heavy rainfall on the 22nd and 23rd produced another round of widespread flooding. Once again, 6 to 12 inches of rain fell across the county. This time, as the heavy rain was centered over the county, damage was much more extensive. In the city of Mahnomen, 19 homes and 2 businesses were lost to flooding. Mahnomen's main employer, the Shooting Star Casino, was saved by a diking effort. One house on the south side of Mahnomen caught fire and burned. The only way out of the city of Mahnomen was on highway 59 to the south. An estimated 25 percent of the cropland in the county was flooded. The county sheriff also estimated that 90 percent of the homes in the county had flood damage in their basements or sewer backup. During the worst of the flooding, travel was not advised as many roads and bridges were damaged. Mahnomen county received a Presidential disaster declaration.

MNZ003
Clay 09 0900CST/30 2359CST 0 0 Flood
Heavy rainfall on the 8th and 9th produced flooding over portions of northern Clay county. In the Ulen area, unofficial 10 inch rainfall reports were received. Many rural roads, bridges, and crops sustained water damage. A second round of heavy rainfall on the 22nd and 23rd brought more flooding problems to northern portions of the county. Therefore, the county received a Presidential disaster declaration.
Flood 100K
09 1000 CST
30 2359 CST

Heavy rainfall on the 8th and 9th over northwest Becker county led to flooding problems. A second round of heavy rain on the 22nd and 23rd brought additional flooding to northern Becker county. Many roads, bridges, and fields across this area were damaged. An estimated $100,000 in road damages occurred. The county received a Presidential disaster declaration.

Lake Of The Woods County

Flash Flood
10  0920 CST
20 1200 CST

Most of the streets in town were flooded and some washouts were reported.

Roseau County

Flash Flood
10 0930 CST
30 1200 CST

County roads 12 and 2 were closed and water was reported over many more roads. The Warroad River flooded the southwest part of town and 60 people were evacuated on the afternoon of the 10th. Half the businesses in town closed due to water damage.

Kitton County

Hail (1.00)
10 1155 CST

Heavy rainfall on the 9th and 10th produced widespread flooding across Kitton county. Quite a bit of overland flooding also took place, with a lot of water coming out of the Roseau River basin into portions of the county. The Lake Bronson dam was continually monitored, to keep the rate of inflow from overtaking the dam. The NDAWN mesonet site at Hallock reported 5.25 inches of rain during this 2 day period. Kittson county received a Presidential disaster declaration.

Flood 200M
25 0000 CST

Heavy rainfall on the 9th and 10th produced a record flood on the Roseau River at Roseau. The NDAWN mesonet site near Roseau measured 4.32 inches of rain, but unofficial reports of 15 to 18 inches of rain were received. The official cooperative observer in Roseau reported 9.25 inches of rain for June and the official Warroad cooperative observer reported 13.79 inches. This caused the Roseau River to rise nearly 17 feet and reach a new record stage of 23.3 feet on the 12th. The city of Roseau struggled to protect against the rising river, but the levels got too high for the city dikes. The dikes broke, sending water throughout the city of 2500. The city retreated to try to save the local Polaris plant, hospital, and high school. Most people were evacuated to the town of Badger, 15 miles west of Roseau. It was estimated that 90 percent of the total cropland in the county was flooded. In the city of Roseau, businesses reported $20 million in damages with the total city estimate being nearly $120 million. The county estimated roughly $11 million in damage to roads and bridges. Roseau county received a Presidential disaster declaration.

Flood 500K
25 0000 CST

Heavy rainfall on the 9th and 10th of the month produced widespread flooding across Lake of the Woods county. The ASOS at Baudette reported 7.64 inches of rain during the two day period and an NWS cooperative observer station at Norris Camp reported 11.95 inches. There were unofficial reports of 15 inches of rain in portions of the county. The lake level of the Lake of the Woods was down prior to this rain event, so it was able to absorb most of the runoff easily, which many believed saved the area from greater damage. Highway 11 was closed due to high water between Warroad and Baudette. 200 homes reported some sort of water damage. Two men were injured when their pickup hit a road washout. The county received a Presidential disaster declaration.

Flood 25
25 0000 CST

Heavy rainfall across Beltrami county on the 9th and 10th and again on the 22nd and 23rd produced areas of flooding. The area worst affected by the flooding was the northwest portion of the county, where highways 1 and 44 were damaged. Beltrami county received a Presidential disaster declaration.

Flood
11 0000 CST
25 2359 CST

Heavy rainfall on the 9th and 10th and again on the 22nd and 23rd contributed to flooding over portions of Polk county. The NWS cooperative observer station at Crookston reported 6.55 inches of rain during the month and the observer at Fosston reported 11.56 inches. This rainfall all fell after the first week of the month. Polk county received a Presidential disaster declaration.
### MINNESOTA, Northwest

**Norman County**
- **5 E Hendrum**: 11 2155CST
  - Number of Persons: 0
  - Number of Injured: 0
  - Event: Hail (0.75)

**MNZ013 Pennington**
- **0000CST 2359CST**
  - Heavy rainfall on the 9th and 10th and again on the 22nd and 23rd led to flooding problems across Pennington county. Therefore, the county received a Presidential disaster declaration.

**MNZ014 Red Lake**
- **0000CST 2359CST**
  - Red Lake county received heavy rainfall on the 9th and 10th and again on the 22nd and 23rd, which led to many flooding problems. The NWS cooperative observer station in Red Lake Falls reported 11.21 inches of rain for the month, all falling after the first week of the month. 7.54 inches of rain fell on the 9th and 10th, and led to the most problems. The county received a Presidential disaster declaration.

**MNZ007>008 West Marshall - East Marshall**
- **0000CST 2359CST**
  - Heavy rainfall on the 9th and 10th and again on the 22nd and 23rd produced widespread flooding over portions of Marshall county. The Red River level at Oslo peaked three times during the course of the month, mainly due to water coming into its upstream tributaries. Near Grygla, water ran over highway 89 on both ends of town. 9 inches of rain fell on the 9th and 10th along the Moose River and isolated some residents who live along the river. Water ran over highway 54 north of Grygla and highway 89 was closed from 6 miles west of Grygla to Wannaska. Minor flooding occurred in Warren, as diking efforts kept most of the river flooding at bay. Marshall county received a Presidential disaster declaration.

**Hubbard County**
- **1 NE Park Rapids**: 19 1530CST 1533CST
  - Event: Hail (1.00)

**Hubbard County**
- **Dorset**: 19 1537CST
  - Event: Hail (1.00)

**Hubbard County**
- **2 NW Nevis**: 19 1545CST
  - Event: Hail (1.75)

**Wilkin County**
- **4 N Rothsay**: 19 1545CST
  - Path Length (Miles): 0.2
  - Path Width (Yards): 25
  - Event: Tornado (F2)
  - A brief tornado touchdown demolished a 76x296 foot roof on a turkey barn.

**Wilkin County**
- **9 SE Wolverton**: 19 1545CST 1550CST
  - Event: Hail (1.00)

**Hubbard County**
- **5 N Nevis**: 19 1550CST
  - Event: Hail (0.88)

**Becker County**
- **1 SW Cormorant**: 19 1630CST
  - Event: Thunderstorm Wind (0.10K)
  - Several branches were blown down.

**Norman County**
- **2 E Ranum**: 19 1640CST
  - Event: Hail (0.88)

**Mahnomen County**
- **4 NW Bejou**: 19 1645CST
  - Event: Hail (0.88)

**Polk County**
- **5 SW Fosston**: 19 1700CST
  - Event: Hail (0.75)

**Hubbard County**
- **4 W Laporte**: 19 1730CST
  - Event: Hail (0.75)

**Hubbard County**
- **5 NW Lake George**: 19 1815CST
  - Event: Thunderstorm Wind (G78)
  - Microburst winds estimated as high as 90 mph blew trees and power lines down near Lake Alice. Boats and docks were also tossed around by the waves.
MINNESOTA, Northwest

Kittson County
15 W Kennedy
22 0705 CST
0 0
Hail(1.00)

Marshall County
Stephen
22 0735 CST
0 0
Hail(1.75)

Kittson County
.5 E Donaldson
22 0738 CST
0 0
Hail(1.00)

Norman County
Wheatville
22 1030 CST
0 0
Hail(1.00)

Clearwater County
Alida
22 1410 CST
0 0
Hail(1.00)

Beltrami County
3 SW Bemidji
22 1420 CST
0 0
Hail(1.25)

Hubbard County
1.5 NW Nary
22 1420 CST
0 0
Hail(1.00)

Beltrami County
Bemidji
22 1430 CST
0 0
Hail(1.75)

Hubbard County
1 SW Farris
22 1437 CST
0 0
Hail(0.75)

Clearwater County
Clearbrook
22 1500 CST
0 0
350K
Flash Flood

Lake Of The Woods
County
5 S Arnesen
22 1945 CST
2145 CST
0 0
Flash Flood

Norman County
6 E Twin Vly
22 2115 CST
23 0215 CST
0 0
Flash Flood

Clay County
4 N Ulen
22 2200 CST
23 2359 CST
0 0
Flash Flood

Mahnomen County
Mahnomen
22 2200 CST
23 2359 CST
0 0
Flash Flood

Mahnomen County
Waubun
22 2200 CST
23 2359 CST
0 0
Flash Flood

Becker County
Ogema
22 2300 CST
23 0100 CST
0 0
Flash Flood

Becker County
10 N Osage
22 2300 CST
23 0100 CST
0 0
Flash Flood

Water flowed over streets and roads as 7 to 11 inches of rain fell. Most of the road damage occurred along Silver Creek. The city park and 3 homes were also flooded. Several roads were washed out in Itasca State Park.

County roads 55 and 241 were under water.

Water flowed over county road 31 and no travel was advised throughout the county.

Roads were washed out.

Citywide flooding was reported and no travel was advised throughout the county.

Citywide flooding was reported.

Water flowed over highway 59 and basement flooding was reported.

Numerous county roads were washed out.
### MINNESOTA, Northwest

**Hubbard County**
- **4 NE Nary**
  - Time: 2200 CST, 2300 CST, 0100 CST
  - Path Length: 0 miles
  - Path Width: 0 yards
  - Number of Persons: 0
  - Number Injured: 0
  - Flash Flood

  Washed out roads were reported.

**Hubbard County**
- **Park Rapids**
  - Time: 2200 CST, 0100 CST
  - Path Length: 0 miles
  - Path Width: 0 yards
  - Number of Persons: 0
  - Number Injured: 0
  - Flash Flood

  Street flooding was reported.

**Beltrami County**
- **2 N Bemidji**
  - Time: 0100 CST, 0300 CST
  - Path Length: 0 miles
  - Path Width: 0 yards
  - Number of Persons: 0
  - Number Injured: 0
  - Flash Flood

  Water was backing up into homes.

**MNZ002-024**
- **Norman - Hubbard**
  - Time: 0700 CST, 2359 CST
  - Path Length: 0 miles
  - Path Width: 0 yards
  - Number of Persons: 0
  - Number Injured: 0
  - Flood

  Water was flowing over highway 9.

**Clay County**
- **Rollag**
  - Time: 2300 CST
  - Path Length: 0 miles
  - Path Width: 0 yards
  - Number of Persons: 0
  - Number Injured: 0
  - Hail (0.75)

**Becker County**
- **Detroit Lakes**
  - Time: 2325 CST
  - Path Length: 0 miles
  - Path Width: 0 yards
  - Number of Persons: 0
  - Number Injured: 0
  - Hail (1.25)

**Becker County**
- **5 NE Rochert**
  - Time: 2345 CST
  - Path Length: 0 miles
  - Path Width: 0 yards
  - Number of Persons: 0
  - Number Injured: 0
  - 0.20K

  Tree limbs were blown down.

**Hubbard County**
- **3 N Akeley**
  - Time: 2122 CST
  - Path Length: 0.2 miles
  - Path Width: 25 yards
  - Number of Persons: 0
  - Number Injured: 0
  - Tornado (F0)

  A brief touchdown blew over several trees.

**Hubbard County**
- **3 E Akeley**
  - Time: 2130 CST
  - Path Length: 0.2 miles
  - Path Width: 35 yards
  - Number of Persons: 0
  - Number Injured: 1
  - 250K

  8 trees were uprooted and 3 recreational vehicles were demolished by falling trees. One man received a bruise on his head.

**Polk County**
- **6 W Eldred**
  - Time: 1440 CST
  - Path Length: 0 miles
  - Path Width: 0 yards
  - Number of Persons: 0
  - Number Injured: 0
  - Hail (1.00)

**Polk County**
- **2 S Crookston**
  - Time: 1458 CST
  - Path Length: 0 miles
  - Path Width: 0 yards
  - Number of Persons: 0
  - Number Injured: 0
  - Hail (0.75)

**Polk County**
- **9 SE Euclid**
  - Time: 1535 CST
  - Path Length: 0 miles
  - Path Width: 0 yards
  - Number of Persons: 0
  - Number Injured: 0
  - Hail (1.00)

**Red Lake County**
- **2 E Red Lake Falls**
  - Time: 1550 CST
  - Path Length: 0 miles
  - Path Width: 0 yards
  - Number of Persons: 0
  - Number Injured: 0
  - Hail (0.75)

**Clearwater County**
- **4 E Berner**
  - Time: 1701 CST
  - Path Length: 0 miles
  - Path Width: 0 yards
  - Number of Persons: 0
  - Number Injured: 0
  - Hail (0.75)

**Beltrami County**
- **7 W Kelliher**
  - Time: 1730 CST
  - Path Length: 0 miles
  - Path Width: 0 yards
  - Number of Persons: 0
  - Number Injured: 0
  - Hail (1.50)

### MINNESOTA, Southeast

**Olmsted County**
- **Rochester**
  - Time: 0015 CST
  - Path Length: 0 miles
  - Path Width: 0 yards
  - Number of Persons: 0
  - Number Injured: 0
  - Hail (1.00)

**Olmsted County**
- **10 NE Rochester**
  - Time: 0020 CST
  - Path Length: 0 miles
  - Path Width: 0 yards
  - Number of Persons: 0
  - Number Injured: 0
  - 2K

  Personnel at KTTC-TV in Rochester, as well as the general public, reported hail the size of dimes and quarters.

**Wabasha County**
- **3 S Lake City**
  - Time: 2356 CST
  - Path Length: 0 miles
  - Path Width: 0 yards
  - Number of Persons: 0
  - Number Injured: 0
  - Hail (0.75)

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### Storm Data and Unusual Weather Phenomena

#### June 2002

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINNESOTA, Southeast</td>
<td></td>
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<tr>
<td><strong>Wabasha County</strong></td>
<td>11</td>
<td>0015CST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Hail (0.75)</td>
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<tr>
<td>1 N Zumbro Falls</td>
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<td></td>
<td>Dime size hail was reported by the public and law enforcement officials.</td>
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<tr>
<td><strong>Olmsted County</strong></td>
<td>11</td>
<td>0300CST</td>
<td>0</td>
<td>0</td>
<td>3.5K</td>
<td>10K</td>
<td>Flash Flood</td>
<td></td>
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<tr>
<td>Countywide</td>
<td></td>
<td>0300CST</td>
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<td>Rainfall amounts of 3 to 5 inches in 1 to 2 hours triggered flash flooding during the early morning hours. The driver of a van had to be rescued when their vehicle stalled in two feet of water covering Highway 52 south of Rochester. The heavy rain also caused culverts to become plugged with debris on the northwest side of Rochester.</td>
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<td><strong>Olmsted County</strong></td>
<td>26</td>
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<td>0</td>
<td>3.5K</td>
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<td>Lightning</td>
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<td>Lightning struck the roof of an apartment building, causing a fire.</td>
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<td><strong>Fillmore County</strong></td>
<td>26</td>
<td>1205CST</td>
<td>0</td>
<td>0</td>
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<td></td>
<td>Funnel Cloud</td>
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<td>2 W Mabel</td>
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<tr>
<td>MINNESOTA, Southwest</td>
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<td><strong>Cottonwood County</strong></td>
<td>02</td>
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<td>Lightning damaged electronic equipment at a grain elevator, and stripped a large part of the bark from a tree.</td>
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<td>02</td>
<td>2320CST</td>
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<td>0</td>
<td></td>
<td></td>
<td>Flash Flood</td>
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<tr>
<td>Pipestone to</td>
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<td>03</td>
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<td></td>
<td>Heavy rain caused flooding of county roads and lowlands in the Pipestone area.</td>
</tr>
<tr>
<td>2 S Pipestone</td>
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<tr>
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<td>07</td>
<td>1500CST</td>
<td>0</td>
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<td>0</td>
<td>0</td>
<td>Hail (0.75)</td>
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<tr>
<td>2 S Lismore</td>
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<td>Thunderstorm Wind (G61)</td>
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<td>2 SW Wilmont</td>
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</table>

164
MINNESOTA, Southwest

Lyon County

3 NE Minnesota

21 1350CST 1500CST

Heavy rain caused flooding of several township roads.

MINNESOTA, West

NONE REPORTED.

MINNESOTA, West Central

Traverse County

2 NW Wheaton

19 1701CST

Big Stone County

10 N Correll 19 1732CST

Big Stone County

5 S Artichoke 19 1737CST

Traverse County

Browns Vly 25 1658CST

Traverse County

Browns Vly 25 1732CST

Big Stone County

2 W Beardsley 25 1733CST

Big Stone County

Ortonville 25 1800CST

MISSISSIPPI, Central

Hinds County

Raymond to Edwards

04 2145CST

Marion County

Columbia 19 1519CST

Claiborne County

6 NE Port Gibson 19 1615CST

Simpson County

3 NW D Lo 19 1925CST

Rankin County

11 E Piney Woods 19 1928CST

Rankin County

4 W Florence 19 1955CST

Hinds County

Byram 19 2020CST

Numerous large limbs were blown down between Edwards and Raymond. Debris had to be removed from the road.

A large tree was blown down near the Sheriff's Office, resulting in damage to a chain link fence.

Numerous large limbs were blown down around the area.

Several trees were blown down across Cado Road.

Several trees were blown down across St. John's Road.

Several trees were blown down over Florence-Byram Road.

One tree and one powerpole was blown down in the city.
MISSISSIPPI, Central

Lawrence County
Countywide 20 1830CST 0 0 2K Thunderstorm Wind
Several trees and powerlines were blown down across the county.

Lincoln County
Brookhaven 20 1850CST 0 0 7K Thunderstorm Wind
Several powerpoles and 4 trees were blown down in the city. In addition, 2 vehicles were totaled.

Yazoo County
5 N Bentonia 20 1850CST 0 0 2.5K Thunderstorm Wind
Numerous trees and 6 powerpoles were blown down in the area.

Simpson County
4 SW D Lo 27 1120CST 0 0 10K Thunderstorm Wind
A National Weather Service cooperative observer reported that numerous trees were blown down. A shed and awning were also destroyed.

MISSISSIPPI, North

Alcorn County
1 S Corinth 13 1345CST 1350CST 0 0 2K Thunderstorm Wind
A barn had its roof blown off.

Calhoun County
Pittsboro 24 1530CST 1535CST 0 0 0.01K Hail(0.75)

Lee County
Plantersville 30 1245CST 1250CST 0 0 1K Thunderstorm Wind
Many large tree limbs were blown down.

Chickasaw County
Okolona 30 2100CST 2105CST 0 0 1K Thunderstorm Wind
Several large tree limbs were knocked down.

MISSISSIPPI, South

Jackson County
Pascagoula to Moss Pt 20 1300CST 1600CST 0 0 Urban/Sml Stream Fld
Two to four inches of rain fell in a short period of time causing considerable street flooding in the Pascagoula and Moss Point areas.

Amite County
10 SW Liberty 25 1615CST 1630CST 0 0 5K Thunderstorm Wind
Several trees were blown down in the southwest portion of Amite County.

MISSISSIPPI, Southeast

NONE REPORTED.

MISSOURI, East

MOZ027-050-063>064-072>075 Marion - Callaway - St. Louis - St. Louis (C) - Crawford - Washington - St. Francois - Ste. Genevieve
01 1100CST 0 14 Excessive Heat
04 2300CST
An early season heat wave resulted in 14 heat related injuries, as reported by the State Department of Health and Senior Services. High temperatures across the area were in the upper 80's to lower 90's with average daily temperatures about 10 to 15 degrees above normal.

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Number of Persons</th>
<th>Estimated Damage Property</th>
<th>Character of Storm</th>
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</thead>
<tbody>
<tr>
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<tr>
<td>3 NE Silex</td>
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</table>
MISSOURI, East

Montgomery County
North Portion

<table>
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<tr>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>2200CST</td>
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<td>1</td>
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<tr>
<td>12</td>
<td>0300CST</td>
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</table>

Heavy rain flooded numerous roads across the north part of Montgomery County. One car was swept off of Route W four miles south of Vandalia. A woman suffered minor injuries.

St. Louis County
Fenton

<table>
<thead>
<tr>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
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<tr>
<td>24</td>
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<td>1</td>
<td>0</td>
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<td>Lightning</td>
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A 44 year old man was struck by lightning at Fenton Park while preparing for a softball game. He fell into a coma and died on July 27, 2002.

MOZ064
St. Louis (C)

<table>
<thead>
<tr>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
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</thead>
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<tr>
<td>25</td>
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<td>Excessive Heat</td>
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</table>

A 79 year old woman was found dead in her home from heat related causes. The home had an air conditioner and a fan but neither was turned on. The high temperature the previous days had been in the lower 90s.

Jefferson County
Hillsboro

<table>
<thead>
<tr>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
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<td>Flash Flood</td>
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</table>

Heavy rain flooded several roads in the Hillsboro area. The intersection of routes Y and C was flooded and closed. Several other county roads in the area were flooded and impassable.

MOZ063
St. Louis

<table>
<thead>
<tr>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
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</tr>
</thead>
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<tr>
<td>29</td>
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<td>1</td>
<td>0</td>
<td></td>
<td></td>
<td>Excessive Heat</td>
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</table>

A 73 year old woman died of hyperthermia in her home in Robertson. The home had no air conditioning, there were no fans and all windows were closed. The woman's pet dog was also found dead.

MOZ063
St. Louis

<table>
<thead>
<tr>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Character of Storm</th>
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</thead>
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<tr>
<td>29</td>
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<td>1</td>
<td>0</td>
<td></td>
<td></td>
<td>Excessive Heat</td>
</tr>
</tbody>
</table>

A 73 year old woman was found dead in her home. The coroner listed heat as a contributing cause of death.

MISSOURI, Lower

NONE REPORTED.

MISSOURI, Northeast

Clark County
1 N Chambersburg

<table>
<thead>
<tr>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>0300CST</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td>Flash Flood</td>
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</table>

County road north of Chambersburg washed out.

Scotland County
Memphis

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<tr>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Character of Storm</th>
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</thead>
<tbody>
<tr>
<td>13</td>
<td>0300CST</td>
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<td>0</td>
<td></td>
<td></td>
<td>Flash Flood</td>
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<tr>
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<td>0530CST</td>
<td></td>
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</table>

Water up to 6 inches deep covered several city streets.

Scotland County
Prospect Grove

<table>
<thead>
<tr>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Character of Storm</th>
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</thead>
<tbody>
<tr>
<td>13</td>
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<td>0</td>
<td></td>
<td></td>
<td>Flash Flood</td>
</tr>
<tr>
<td>13</td>
<td>0700CST</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

A home was inundated with water.

Clark County
2 W St Patrick

<table>
<thead>
<tr>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Character of Storm</th>
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</thead>
<tbody>
<tr>
<td>13</td>
<td>0500CST</td>
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<td>0</td>
<td></td>
<td></td>
<td>Flash Flood</td>
</tr>
<tr>
<td>13</td>
<td>0700CST</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

County road north of St. Patrick impassable in spots due to flood water debris.

A nearly stationary front, combined with abundant moisture and a strong upper level storm system to produce scattered thunderstorms Wednesday evening. A few reports of pea size hail and gusty winds were received. The thunderstorms continued
MISSOURI, Northeast

into Thursday morning. The threat shifted to heavy rain and flash flooding, as thunderstorms continuously developed over some of the same areas. A trained spotter in Athens in Clark County measured 3 inches of rain in just 1 hour. Storm total rainfall generally ranged from 2 to 5 inches across Clark and Scotland Counties. Just 48 hours earlier some of the same areas received anywhere from 1 to 3 inches of rain. As a result, much of the heavy rain went into runoff resulting in fairly widespread flash flooding.

MISSOURI, Northwest

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
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<tbody>
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<tr>
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MOZ031-039>040-046 Carroll - Saline - Howard - Cooper

Flood

Heavy rains on June 12th, caused minor to moderate flooding on the Moniteau creek near Fayette, Wakenda Creek in Carrollton, Petite Saline Creek near Boonville, and the Blackwater River near Blue Lick.

Nodaway County

1 W Hopkins

Several trees uprooted and there was minor roof damage reported.

Worth County

Sheridan

Andrew County

Savannah

Andrew County

Cosby

De Kalb County

Clarksdale

Nodaway County

Hopkins

Worth County

Sheridan

Several trees reported down.

Daviess County

Jameson

Holt County

Maitland

Several trees reported down.
MISSOURI, Northwest

Daviess County
Gallatin 26 1500CST 0 0 Six inch tree limbs down.

Daviess County
6 SE Winston 26 1510CST 0 0 Thunderstorm Wind (G57)
Large tree down at Highway O and 170.

Holt County
Oregon 26 1515CST 0 0 Hail(0.75)

De Kalb County
Osborn 26 1520CST 0 0 Thunderstorm Wind (G57)

Holt County
7 N Oregon 26 1520CST 0 0 Thunderstorm Wind (G52)

Andrew County
1 W Fillmore 26 1536CST 0 0 Thunderstorm Wind (G52)

Atchison County
Rockport 26 1645CST 0 0 Hail(0.75)

Clay County
Kearney 26 1650CST 0 0 Hail(1.00)

Clay County
2 W Birmingham 26 1710CST 0 0 Thunderstorm Wind (G52)

Clay County
Liberty 26 1710CST 0 0 Thunderstorm Wind (G52)

Jackson County
Kansas City 26 1724CST 0 0 Hail(0.88)

Jackson County
4 S Kansas City Downtov 26 1730CST 0 0 Thunderstorm Wind (G61)

Jackson County
5 S Kansas City Downtov 26 1733CST 0 0 Hail(0.75)

MISSOURI, Southeast

MOZ076-087-111-112-114 Perry - Cape Girardeau - Scott - Mississippi - New Madrid
01 0001CST 0 0 Flood
The Mississippi River fell below flood stage for the first time since early May.

MOZ087 Cape Girardeau
15 0800CST 0 0 5K Flood
The Mississippi River rose slightly above flood stage at Cape Girardeau for a few days. The crest was less than one foot above flood stage, which resulted in few problems. Minor flooding of agricultural bottomland and low-lying areas near the river occurred

Perry County
Perryville 27 1523CST 0 0 12K Thunderstorm Wind (G52)
Winds estimated near 60 MPH blew out the showroom window of a car dealership on Highway 51. A nearby outbuilding was blown onto a pickup truck. Numerous large tree limbs were down throughout town.

MISSOURI, Southwest

Morgan County
5 N Stover 04 1522CST 0 0 0 Hail(0.88)
Morgan County
Gravois Mills 04 1540CST 0 0 0 Hail(0.88)
**MISSOURI, Southwest**

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<th>Path Width (Yards)</th>
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<th>Number of Injured</th>
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A complex of thunderstorms moved over southeast Kansas and portions of southern and central Missouri during the late evening and early morning hours of June 12th and 13th. Doppler radar estimated between two and three and a half inches of rain fell during a three hour period. Several low water crossings were flooded and impassable near Joplin, Neosho, and Versailles. Some areas in Joplin had over one foot of water flowing over the roadway. The worst flooding in Neosho was at the intersection of Highways 59 and J. Also Highway W north of Versailles was flooded for a period of time.

Doppler radar estimated between three and four inches of rain fell between Bakersfield, Tecumseh, and Caulfield in two hours. The flood water caused several homes in the Bakersfield area to flood. Also the intersection of Highway O & 101 was impassable for several hours near Bakersfield. In Howell County, several low water crossings in the southwest part of the county were flooded and impassable for several hours.

Two barns sustained damage near Alton with numerous trees downed from Alton to Rover and Thomasville.
MONTANA, Central

Glacier County

West Portion

Badger Creek began to rise above flood stage on June 6th, due to snow melt over the Rockies. A strong storm then moved over the area on June 10th. This storm brought between 4 and 6 inches of rain to the plains, and 3 to 6 feet of snow in the mountains. Badger Creek remained out of its bank until June 30th. The river crested at 8.8 feet on June 18th.

MTZ009-048

North Rocky Mountain Front - Southern Rocky Mountain Front

A major late season winter storm affected much of the Rocky Mountain Front from June 8th to June 10th. The snow began to fall at higher elevations on Friday evening, with rain at the lower elevations. But Saturday morning, heavy snow was falling across the entire Rocky Mountain Front. The snow was heavy at times throughout Saturday. On Saturday night, blizzard conditions were experienced over the Northern Rocky Mountain Front. The snow began to diminish in intensity on Monday evening. By then, snow accumulations ranged from 3 to 4 feet over the Plains, to 5 to 7 feet above 5000 feet.

This snow had a very high moisture content, which caused 301 power poles to break, 232 power pole cross arms to snap off, 521 splices, and over 30 miles of destroyed power lines. The power was out to over 2,500 customers, some for several days. Roads were closed over the entire Rocky Mountain Front region for 2 days. The deep snow cover resulted in the loss of over 3,200 livestock.

MTZ12

Cascade

Heavy snow began to fall over the Little and Big Belt Mountains early on the 10th. The snow was heavy at times during the mid morning hours. By evening, snow accumulations ranged from 6 to 10 inches from the foothills to the mountains.

Toole County

Shelby

The Marias River began to rise on June 5th, due to snow melt over southern Canada. A strong storm then moved over the area on June 10th. This storm brought between 3 and 5 inches of rain to the area. The Marias River flooded near the golf course, and remained out of its bank until June 30th. The river crested at 12.4 feet on June 11th.

Cascade County

Countywide

Flooding occurred over North Central Montana on June 10th. Between 2 and 5 inches of rain fell over the plains during the morning and early afternoon hours resulting in many rivers rising to bank full along with urban street flooding. The water began to recede below bank full early on the 11th.

Chouteau County

Countywide

Flooding occurred over North Central Montana on June 10th. Between 2 and 5 inches of rain fell over the plains during the morning and early afternoon hours resulting in many rivers rising to bank full along with urban street flooding. The water began to recede below bank full early on the 11th.

Glacier County

Countywide

Flooding occurred over North Central Montana on June 10th. Between 2 and 5 inches of rain fell over the plains during the morning and early afternoon hours resulting in many rivers rising to bank full along with urban street flooding. The water began to recede below bank full early on the 11th.

Lewis And Clark County

North Portion

Flooding occurred over North Central Montana on June 10th. Between 2 and 5 inches of rain fell over the plains during the morning and early afternoon hours resulting in many rivers rising to bank full along with urban street flooding. The water began to recede below bank full early on the 11th.

Pondera County

Countywide

Flooding occurred over North Central Montana on June 10th. Between 2 and 5 inches of rain fell over the plains during the morning and early afternoon hours resulting in many rivers rising to bank full along with urban street flooding. The water began to recede below bank full early on the 11th.
Montana, Central

Teton County
Countywide 10 0700MST 0 0 Flood
11 0400MST
Flooding occurred over North Central Montana on June 10th. Between 2 and 5 inches of rain fell over the plains during the morning and early afternoon hours resulting in many rivers rising to bank full along with urban street flooding. The water began to recede below bank full early on the 11th.

Toole County
Countywide 10 0700MST 0 0 Flood
11 0400MST
Flooding occurred over North Central Montana on June 10th. Between 2 and 5 inches of rain fell over the plains during the morning and early afternoon hours resulting in many rivers rising to bank full along with urban street flooding. The water began to recede below bank full early on the 11th.

Jefferson County
Boulder 21 1820MST 0 0 Hail(1.00)
A severe thunderstorm produced 1.00 inch hail near Boulder.

Lewis And Clark County
Silver City 21 1852MST 0 0 Thunderstorm Wind (G56) M
1920MST
A severe thunderstorm produced wind gusts between 60 and 65 mph at Silver City.

Jefferson County
Clancy 21 1910MST 0 0 Thunderstorm Wind (G52)
A severe thunderstorm produced a 60 mph wind gust at Clancy 6N.

Cascade County
Cascade 21 1915MST 0 0 Thunderstorm Wind (G52)
A severe thunderstorm produced a 60 mph wind gust at Cascade 20SE.

Jefferson County
Jefferson City 21 2030MST 0 0 Thunderstorm Wind (G52)
A severe thunderstorm produced a 60 mph wind gust in Jefferson City.

Cascade County
Neihart 21 2030MST 0 0 Hail(0.75)
A severe thunderstorm produced 0.75 inch hail between Monarch and Neihart.

Meagher County
White Sulphur Spgs 21 2100MST 0 0 Hail(0.75)
A severe thunderstorm produced 0.75 inch hail over the far northeastern section of Meagher County.

Fergus County
Valentine 22 1445MST 0 0 Hail(1.00)
A severe thunderstorm produced 1.00 inch hail at Valentine 12NE.

MTZ050
Judith Basin 27 0014MST 0 0 High Wind (G51) M
A wind gust of 59 mph was recorded in Hobson.

Beaverhead County
Dillon 27 1323MST 0 0 Thunderstorm Wind (G56) M
A severe thunderstorm produced a 64 mph wind gust at Dillon 355SW.

Pondera County
Conrad 27 1620MST 0 0 Thunderstorm Wind (G56)
1640MST
A severe thunderstorm produced wind gusts between 60 and 65 mph in the Conrad area.

Lewis And Clark County
Lincoln 27 1655MST 0 0 Thunderstorm Wind (G52)
A severe thunderstorm produced a 60 mph wind gust at Lincoln.

Cascade County
Cascade 27 1705MST 0 0 Thunderstorm Wind (G61) M
A severe thunderstorm produced a 70 mph wind gust at Cascade 20SE. 2x4’s were lifted off the ground.
MONTANA, Central

Teton County
Choteau 27 1815MST  0 0 Thunderstorm Wind (G52)
A severe thunderstorm produced a 60 mph wind gust at Choteau.

Judith Basin County
Raynesford 27 1830MST  0 0 Thunderstorm Wind (G52)
A severe thunderstorm produced a 60 mph wind gust at Raynesford 2N.

Cascade County
Great Falls 27 1835MST  0 0 Thunderstorm Wind (G52)
A severe thunderstorm produced 60 mph wind gusts between Great Falls and Belt.

Toole County
Sunburst 27 1921MST  0 0 Hail(1.00)
A severe thunderstorm produced 1.00 inch hail at Sunburst 14SW.

Hill County
Rudyard 27 1955MST  0 0 Hail(1.00)
A severe thunderstorm produced 1.00 inch hail at Rudyard 16S.

Blaine County
Cleveland 27 2045MST  0 0 Thunderstorm Wind (G52)
A severe thunderstorm produced a 60 mph wind gust at Cleveland 12SE.

Judith Basin County
Hobson 28 1945MST  1 50 0 0 Tornado (F0)
A severe thunderstorm moved across the far eastern portions of Judith Basin County and into the far western sections of Fergus county around 2000 MST. Wind gusts to near 70 mph were reported from Hobson to Hilger, with 60 mph winds recorded in Lewistown A tornado did touch down just west of Buffalo at approximately 2000 MST, and then moved northeast into central Fergus county. The tornado finally dissipated about 10 miles southeast of Moore. This tornado made several brief touchdowns, and was an F0. The longest tornado path on the ground was less than one half mile. Wind gusts between 60 and 70 mph were reported along the entire path. One shed was destroyed, and the remainder of the damage was limited to objects not secured down.

Near 1930 MST, a small ultra-light plane was damaged while trying to land south of Lewistown. Wind gusts were estimated near 60 mph.

Judith Basin County
Hobson 28 1945MST  0 0 Thunderstorm Wind (G57)
A severe thunderstorm moved a 66 mph wind gust in Hobson.

Fergus County
Moore 28 2000MST  10 50 0 0 Tornado (F0)
A severe thunderstorm moved across the far eastern portions of Judith Basin County and into the far western sections of Fergus county around 2000 MST. Wind gusts to near 70 mph were reported from Hobson to Hilger, with 60 mph winds recorded in Lewistown A tornado did touch down just west of Buffalo at approximately 2000 MST, and then moved northeast into central Fergus county. The tornado finally dissipated about 10 miles southeast of Moore. This tornado made several brief touchdowns, and was an F0. The longest tornado path on the ground was less than one half mile. Wind gusts between 60 and 70 mph were reported along the entire path. One shed was destroyed, and the remainder of the damage was limited to objects not secured down.

Near 1930 MST, a small ultra-light plane was damaged while trying to land south of Lewistown. Wind gusts were estimated near 60 mph.

Fergus County
Hilger to Forestgrove 28 2030MST  0 0 Thunderstorm Wind (G61)
A severe thunderstorm produced a 60 to 70 mph wind gust between Hilger and Forestgrove.

MTZ053
Broadwater 29 1000MST  0 0 High Wind (G43)
A cold front moved through the Helena Valley during the late morning hours on the 29th. The winds were gusting to near 50 mph at the time of frontal passage. These gusty winds created waves up to 5 feet on Canyon Ferry Lake, where 14 boats capsized.
## Storm Data and Unusual Weather Phenomena

### June 2002

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<td>Hail damaged several vehicles in Wibaux.</td>
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Brief tornado touch down reported by spotter 15 SE Winnett. 

Valley County
4 SW Hinsdale 22 1411MST  0  0  Hail(1.00) 

Phillips County
20 S Zortman 22 1443MST  0  0  Thunderstorm Wind (G61) 

Garfield County
19 SW Sand Spgs 22 1500MST  0  0  1K  Flash Flood 

Over 3 inches of rainfall fell in 1 hour, over an area that has been in a long term drought. The water ran off the fields and flooded pastures and tore out several fences throughout southwestern Garfield County. The total rainfall in this portion of the county was around 4.5" with the worst of the damage along the Sage Hen Creek drainage. 

Phillips County
27 SSW Malta 22 1614MST  0  0  Hail(0.88) 

Garfield County
25 SE Cohagen 22 1655MST  0  0  Hail(0.75) 

Valley County
25 SW Ft Peck 22 1751MST  0  0  Thunderstorm Wind (G66) 

78 mph wind reported at King Coulee RAWS.
### MONTANA, East

**Garfield County**

- **Location**: 7 E Van Norman to 20 E Cohagen
- **Date**: June 22, 2002
- **Time**: 2000 MST - 2200 MST
- **Path Length**: 3 to 9 inches
- **Path Width**: less than 5 hours
- **Flash Flood**: Flooding closed Highway 200 from Jordan to the junction of Highway 24 for most of the night and caused some damage along bridges on Highway 200.

**Garfield County**

- **Location**: 15 NE Cohagen
- **Date**: June 23, 2002
- **Time**: 0500 MST - 1630 MST
- **Path Length**: 3 to 9 inches
- **Path Width**: less than 5 hours
- **Flash Flood**: Heavy rainfall from the night of June 22, 2002 contributed to the failure of the Ross Dam #2 stock dam. Rainfall amounts up to 9 inches were reported in the drainage basin that flow into the dam. The dam was nearly empty prior to the heavy rain event, and then filled up three-quarters of the way to a series of holes which had been dug by animals. The water pushed through the holes, and caused the dam to then collapse. The subsequent deluge downstream flooded out the basement of a home, lifted several older vehicles and transported them downstream, and caused considerable damage to a culvert. The damage to the culvert lead to the U-ALL Road being washed out.

### Storm Data and Unusual Weather Phenomena

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<th>Location</th>
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**Phillips County**

- **Location**: 5 NE Saco
- **Date**: June 23, 2002
- **Time**: 1420 MST
- **Path Length**: 58 mph
- **Path Width**: wind gust downed tree limbs 5 miles northeast of Saco.

**Phillips County**

- **Location**: 5 W Vandalia
- **Date**: June 23, 2002
- **Time**: 1421 MST
- **Path Length**: 58 mph
- **Path Width**: wind gust downed tree limbs 5 miles northeast of Saco.

**Phillips County**

- **Location**: 5 W Vandalia
- **Date**: June 23, 2002
- **Time**: 1421 MST
- **Path Length**: 58 mph
- **Path Width**: wind gust downed tree limbs 5 miles northeast of Saco.
### MONTANA, East

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Storm Data and Unusual Weather Phenomena

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June 2002

178
### MONTANA, East

- **Richland County**
  - **10 N Enid**
    - Wind speed: 67 mph
    - Date: 29 Jun 1630 MST
    - Location: Dawson County Airport in Glendive
    - Path: 1710 MST
    - Character of Storm: Thunderstorm Wind (G52) M
    - Path Width: 300 yards
    - Number of Persons: 0
    - Estimated Damage: None
    - Property Damage: None
    - Crops Damage: None

- **Dawson County**
  - **Dawson Arpt Glendive**
    - Wind speed: 60 mph
    - Date: 29 Jun 1640 MST
    - Location: Dawson County Airport in Glendive
    - Path: 1710 MST
    - Character of Storm: Thunderstorm Wind (G63) M
    - Path Width: 300 yards
    - Number of Persons: 0
    - Estimated Damage: None
    - Property Damage: None
    - Crops Damage: None

- **Richland County**
  - **5 E Andes**
    - Wind speed: 73 mph
    - Date: 29 Jun 1650 MST
    - Location: Dawson County Airport in Glendive
    - Path: 1720 MST
    - Character of Storm: Thunderstorm Wind (G52) M
    - Path Width: 300 yards
    - Number of Persons: 0
    - Estimated Damage: None
    - Property Damage: None
    - Crops Damage: None

- **Richland County**
  - **Sidney Richland Arpt**
    - Wind speed: 60 mph
    - Date: 29 Jun 1715 MST
    - Location: Dawson County Airport in Glendive
    - Path: 1725 MST
    - Character of Storm: Thunderstorm Wind (G55) M
    - Path Width: 300 yards
    - Number of Persons: 0
    - Estimated Damage: None
    - Property Damage: None
    - Crops Damage: None

- **Dawson County**
  - **Wibaux**
    - Wind speed: 64 mph
    - Date: 29 Jun 1730 MST
    - Location: Dawson County Airport in Glendive
    - Path: 1740 MST
    - Character of Storm: Thunderstorm Wind (G52) M
    - Path Width: 300 yards
    - Number of Persons: 0
    - Estimated Damage: None
    - Property Damage: None
    - Crops Damage: None

### MONTANA, South

- **Powder River County**
  - **15 W Biddle**
    - Wind speed: 60 mph
    - Date: 02 Jul 1435 MST
    - Location: Biddle
    - Path: 1500 MST
    - Character of Storm: Thunderstorm Wind (G60)
    - Path Width: 300 yards
    - Number of Persons: 0
    - Estimated Damage: None
    - Property Damage: None
    - Crops Damage: None

- **Powder River County**
  - **Broadus**
    - Wind speed: 60 mph
    - Date: 02 Jul 1500 MST
    - Location: Broadus
    - Path: 1510 MST
    - Character of Storm: Thunderstorm Wind (G52) M
    - Path Width: 300 yards
    - Number of Persons: 0
    - Estimated Damage: None
    - Property Damage: None
    - Crops Damage: None

- **MTZ036**
  - **Powder River River**
    - Wind speed: 60 mph
    - Date: 02 Jul 1530 MST
    - Location: MTZ036
    - Path: 1540 MST
    - Character of Storm: Flood
    - Path Width: 300 yards
    - Number of Persons: 0
    - Estimated Damage: None
    - Property Damage: None
    - Crops Damage: None

- **Rosebud County**
  - **Ashland**
    - Wind speed: 60 mph
    - Date: 08 Jul 1230 MST
    - Location: Ashland
    - Path: 1240 MST
    - Character of Storm: Thunderstorm Wind (G52) M
    - Path Width: 300 yards
    - Number of Persons: 0
    - Estimated Damage: None
    - Property Damage: None
    - Crops Damage: None

- **Rosebud County**
  - **40 NW Broadus**
    - Wind speed: 60 mph
    - Date: 08 Jul 1244 MST
    - Location: Ashland
    - Path: 1250 MST
    - Character of Storm: Thunderstorm Wind (G52) M
    - Path Width: 300 yards
    - Number of Persons: 0
    - Estimated Damage: None
    - Property Damage: None
    - Crops Damage: None

- **Rosebud County**
  - **3 SE Angela**
    - Wind speed: 60 mph
    - Date: 08 Jul 1520 MST
    - Location: Miles City
    - Path: 1530 MST
    - Character of Storm: Thunderstorm Wind (G52) M
    - Path Width: 300 yards
    - Number of Persons: 0
    - Estimated Damage: None
    - Property Damage: None
    - Crops Damage: None

- **Custer County**
  - **20 NW Miles City**
    - Wind speed: 60 mph
    - Date: 08 Jul 1525 MST
    - Location: Miles City
    - Path: 1535 MST
    - Character of Storm: Thunderstorm Wind (G52) M
    - Path Width: 300 yards
    - Number of Persons: 0
    - Estimated Damage: None
    - Property Damage: None
    - Crops Damage: None

- **Custer County**
  - **35 E Miles City**
    - Wind speed: 60 mph
    - Date: 08 Jul 1535 MST
    - Location: Miles City
    - Path: 1545 MST
    - Character of Storm: Thunderstorm Wind (G52) M
    - Path Width: 300 yards
    - Number of Persons: 0
    - Estimated Damage: None
    - Property Damage: None
    - Crops Damage: None

- **Rosebud County**
  - **Hathaway**
    - Wind speed: 60 mph
    - Date: 08 Jul 1540 MST
    - Location: Hathaway
    - Path: 1550 MST
    - Character of Storm: Thunderstorm Wind (G52) M
    - Path Width: 300 yards
    - Number of Persons: 0
    - Estimated Damage: None
    - Property Damage: None
    - Crops Damage: None

- **Custer County**
  - **Miles City**
    - Wind speed: 60 mph
    - Date: 08 Jul 1550 MST
    - Location: Miles City
    - Path: 1600 MST
    - Character of Storm: Thunderstorm Wind (G52) M
    - Path Width: 300 yards
    - Number of Persons: 0
    - Estimated Damage: None
    - Property Damage: None
    - Crops Damage: None

- **Rosebud County**
  - **15 N Ashland**
    - Wind speed: 60 mph
    - Date: 08 Jul 1605 MST
    - Location: Ashland
    - Path: 1615 MST
    - Character of Storm: Thunderstorm Wind (G52) M
    - Path Width: 300 yards
    - Number of Persons: 0
    - Estimated Damage: None
    - Property Damage: None
    - Crops Damage: None

- **Custer County**
  - **4 NE Miles City**
    - Wind speed: 60 mph
    - Date: 08 Jul 1610 MST
    - Location: Miles City
    - Path: 1620 MST
    - Character of Storm: Thunderstorm Wind (G52) M
    - Path Width: 300 yards
    - Number of Persons: 0
    - Estimated Damage: None
    - Property Damage: None
    - Crops Damage: None
## Storm Data and Unusual Weather Phenomena

### June 2002

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
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### Storm Data and Unusual Weather Phenomena

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A powerful, late season snow storm brought heavy wet snow to a large part of western Montana for a three day period, mainly for elevations above 5000 feet. Snow was reported as low as 4000 feet in west central Montana before the storm moved well east of the divide. The hardest hit area was Glacier National Park where 3 to 4 feet of snow fell, with reports of 8 feet on the east side of the park, creating many avalanches and power outages. Travel was restricted to emergency traffic only along Highway 2 over Marias Pass.
MONTANA, West

Pass. Some snowfall amounts during the event included: 12 inches at Hoodoo Basin and North Fork Elk Creek, 14 inches at Warm Springs RAWS, 17 inches at Point Six, 40 inches at Pike Creek, and 57 inches at Badger Pass in Flathead County. Several temperature records were broken in the days following the storm event.

MTZ007 Butte / Pintlar Region
18 1300MST 1700MST
A tight surface pressure gradient combined with microburst winds from convective showers brought gusty winds to the area. Some large trees were knocked over, one fell on a house in Butte. The facade of an old building in downtown Philipsburg fell into the street from the strong winds. Power was disrupted in Butte and Philipsburg and one person was seriously injured in Anaconda when he was blown off a carport.

Silver Bow County
Butte 21 1920MST 0 0 Hail(1.00)

Deer Lodge County
Anaconda 21 2022MST 0 0 Funnel Cloud
A funnel cloud was reported in Anaconda as a strong thunderstorm moved through the area. Another storm brought one inch hail to Butte.

Powell County
9 SSE Ovando 27 1635MST 0 0 Hail(0.88)

Missoula County
Seeley Lake 27 1740MST 0 0 Thunderstorm Wind (G52)

Lake County
Charlo 27 1741MST 0 0 Hail(1.75)

Missoula County
10 N Missoula 27 1746MST 0 0 Thunderstorm Wind (G53)

Flathead County
Bigfork 27 1820MST 0 0 Hail(0.75)
Severe thunderstorms brought strong winds across Missoula County and large hail to Powell, Lake, and Flathead Counties. Heavy rain flooded basements in Polson, power was knocked out in the Missoula and northern Bitterroot Valleys, and hail up to golf ball-size was reported in Charlo.

NEBRASKA, Central

Cherry County
8 S Merriman 01 2135CST 0 0 4K Hail(1.00)

Custer County
5 S Merna 06 1625CST 0 0 Hail(0.75)

Boyd County
3 N Lynch 07 1455CST 0 0 Hail(0.88)

Rock County
16 NNE Rose 07 1555CST 0 0 Hail(0.75)

Garfield County
3 NW Burwell 07 1600CST 0 0 Hail(0.75)

Holt County
13 S Stuart 07 1600CST 0 0 Hail(0.75)

Loup County
4 SE Taylor 07 1600CST 0 0 Hail(0.75)

Brown County
17 S Ainsworth 07 1605CST 0 0 Hail(0.75)

Garfield County
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The tornado made a brief touchdown. State Patrol reported trees down.

The roof was ripped off a hog shed.

Power lines were down in northwest corner of the city.

Fire...initiated by a lightning strike...destroyed a home.
### Storm Data and Unusual Weather Phenomena

**Location**: NEBRASKA, Central

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Pea to dime size hail covered the ground.

The corn was stripped by the hail.
## Storm Data and Unusual Weather Phenomena

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Hail covered the ground 8 miles south of Crookston.

Hail broke windshields in vehicles and damaged siding on homes.

Large limbs were broken off trees.
## Storm Data and Unusual Weather Phenomena

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<td>0</td>
<td>0</td>
<td>Hail (0.88)</td>
</tr>
<tr>
<td>2 SE Elgin</td>
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<td>0</td>
<td>Hail (1.00)</td>
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<tr>
<td>2 SE Columbus</td>
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<tr>
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<td>2025CST</td>
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<td>Thunderstorm Wind (G50)</td>
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<tr>
<td>Columbus</td>
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</tbody>
</table>
NEBRASKA, East

Thunderstorm wind gusts knocked several branches and limbs down in town and also caused a tree to fall over on a power line resulting in a power outage.

Seward County

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/ Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
</tr>
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<tbody>
<tr>
<td>1 W Seward</td>
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</tbody>
</table>

Thunderstorm winds overturned a center pivot irrigation system, broke a few large tree limbs and caused some outbuilding damage west of Seward.

Colfax County

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<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/ Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
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</thead>
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<tr>
<td>Howells</td>
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<td></td>
<td></td>
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</table>

A cooperative observer in Howells reported thunderstorm wind gusts measured at 58 mph by home wind equipment. The winds downed a few trees in town.

Cuming County

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/ Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Pt</td>
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<td>2055 CST</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G50)</td>
<td></td>
<td></td>
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</tbody>
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A cooperative observer in West Point reported that thunderstorm wind gusts estimated at 60 mph or more caused major tree damage in West Point. The winds also damaged some farm outbuildings near town.

Saunders County

<table>
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<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/ Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 N Wahoo to 2 S Wahoo</td>
<td>10</td>
<td>2105 CST</td>
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<td>0</td>
<td>Thunderstorm Wind (G65)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>2140 CST</td>
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</tbody>
</table>

A small cluster of severe thunderstorms tracked across Saunders county from just north of Wahoo south toward Valparaiso then east into Douglas county near Valley. The storms produced wind gusts estimated at over 70 mph which downed numerous trees and power lines and snapped power poles from just north through east of Wahoo through Wahoo itself then south to 3 miles north of Valparaiso. Tree damage was quite extensive in Wahoo where enough debris clogged city streets that city crews used bulldozers to clear them. OPPD estimated that around 3000 customers lost power for a time because of the storm.

Madison County

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/ Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meadow Grove</td>
<td>10</td>
<td>2128 CST</td>
<td>0</td>
<td>0</td>
<td>Hail (0.75)</td>
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</table>

Saunders County

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/ Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 E Prague to Prague</td>
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<td>Thunderstorm Wind (G55)</td>
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</tbody>
</table>

A ham radio operator reported that thunderstorm wind gusts downed trees and blew grain bin tops off east of Prague. These winds were caused by the same severe storm cluster that caused the extensive tree damage around Wahoo.

Saunders County

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/ Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
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</thead>
<tbody>
<tr>
<td>Colon</td>
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<td>2140 CST</td>
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<td>0</td>
<td>Thunderstorm Wind (G55)</td>
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</tbody>
</table>

Grain bins were blown down near Colon from the same thunderstorm that caused extensive tree damage around Wahoo.

Saunders County

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/ Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceresco</td>
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<td>2140 CST</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G55)</td>
<td></td>
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</tbody>
</table>

Thunderstorm winds downed trees and power lines around Ceresco. The winds were caused by the same thunderstorm complex that caused the extensive tree damage around Wahoo.

Douglas County

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/ Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valley</td>
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<td>2142 CST</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G50)</td>
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</tbody>
</table>

A thunderstorm wind gust of 58 mph was recorded at the NWS office in Valley. The winds were caused by the same thunderstorm complex that produced the extensive tree and power line damage in Saunders county.

Saunders County

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/ Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 N Valparaiso</td>
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<td>0</td>
<td>Thunderstorm Wind (G50)</td>
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</table>

Thunderstorm wind gusts downed trees causing power outages north of Valparaiso.

Saunders County

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/ Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
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</thead>
<tbody>
<tr>
<td>Malmo</td>
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<td>2143 CST</td>
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<td>0</td>
<td>Thunderstorm Wind (G55)</td>
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</table>

Trees and power lines were downed around Malmo by the same thunderstorm complex that caused extensive tree damage around Wahoo.

Saunders County

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/ Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ithaca</td>
<td>10</td>
<td>2144 CST</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G50)</td>
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</table>

Thunderstorm wind gusts damaged large tree branches and knocked out power in Ithaca. From the same storm system that did the tree damage around Wahoo.

Saunders County

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/ Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
</tr>
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<tbody>
<tr>
<td>Mead</td>
<td>10</td>
<td>2145 CST</td>
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<td>0</td>
<td>Thunderstorm Wind (G55)</td>
<td></td>
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</table>

Thunderstorm wind gusts downed small trees and power lines in Mead. From the same storm complex that caused the extensive tree damage around Wahoo.

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/ Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ithaca</td>
<td>10</td>
<td>2144 CST</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G50)</td>
<td></td>
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</table>

Thunderstorm wind gusts damaged large tree branches and knocked out power in Ithaca. From the same storm system that did the tree damage around Wahoo.

Saunders County

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/ Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
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<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mead</td>
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<td>2145 CST</td>
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<td>0</td>
<td>Thunderstorm Wind (G55)</td>
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</table>

Thunderstorm wind gusts downed small trees and power lines in Mead. From the same storm complex that caused the extensive tree damage around Wahoo.
### Storm Data and Unusual Weather Phenomena

**June 2002**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/ Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
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<tbody>
<tr>
<td>Nebraska, East</td>
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<tr>
<td>Douglas County</td>
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<td>4 S Endicott</td>
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<tr>
<td>2 E Davey</td>
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<td>Hail (0.88)</td>
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<td>Cass County</td>
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<tr>
<td>Greenwood</td>
<td>12</td>
<td>1545 CST 1600 CST</td>
<td>0</td>
<td>0</td>
<td></td>
<td>Hail (1.75)</td>
<td></td>
<td></td>
<td>Thunderstorm Wind (G70)</td>
</tr>
<tr>
<td>Thunderstorm winds estimated at 80 mph caused extensive tree and other damage around the Greenwood area. The most damage was reported from a few miles south through just northeast of town. A roof was blown off of a section of a motel near the I-80 exchange south of town, numerous trees and power lines were downed around the area and a large barn was blown down just northeast of Greenwood. The thunderstorm was accompanied by hail up to golfball size which covered the ground.</td>
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<tr>
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<tr>
<td>Duncan to Columbus</td>
<td>12</td>
<td>1555 CST 1600 CST</td>
<td>0</td>
<td>0</td>
<td></td>
<td>Hail (1.75)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Hail up to golfball size pelted an area of southern Platte county from around Duncan to the southern sections of Columbus. In fact, there was even one unofficial report that some stones were as big as baseball size in between Duncan and Columbus on highway 30. The hail broke windows and did siding damage on houses and businesses just southwest of Columbus, as well as broke windows on vehicles in that area. Crop damage was also reported along highway 30 southwest of Columbus.</td>
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<tr>
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<td>Hail (1.75)</td>
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<td>Cass County</td>
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<tr>
<td>Cass County</td>
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<tr>
<td>Murray</td>
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<td>Thunderstorm Wind (G60)</td>
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<tr>
<td>Thunderstorm wind gusts estimated at around 70 mph broke several large trees in half around town. Quarter size hail also accompanied the storm.</td>
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<tr>
<td>A thunderstorm wind gust of 63 mph was recorded at the Plattsmouth Muni Airport.</td>
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<td></td>
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<td>1 S Fremont</td>
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<td>Hail (0.75)</td>
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<tr>
<td>Dodge County</td>
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<td>Fremont</td>
<td>12</td>
<td>1702 CST</td>
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<td>Hail (0.88)</td>
<td></td>
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</tbody>
</table>
Storm Data and Unusual Weather Phenomena

NEBRASKA, East

Seward County
- 2 N Utica 12 1719CST 0 0 Hail(1.25)
- 8 W Scribner 12 1845CST 0 0 Hail(1.00)
Colfax County
- Schuyler 12 1900CST 0 0 Hail(0.75)
Saunders County
- 6 S Morse Bluff 12 1917CST 0 0 Hail(0.75)
- 5 N Prague 12 1924CST 0 0 Hail(0.75)
Dodge County
- Dodge 12 2045CST 0 0 Thunderstorm Wind (G50)
  Thunderstorm winds downed a few trees in Dodge.
- Plattsmouth 12 2048CST 0 0 Thunderstorm Wind (G50)
  Thunderstorm wind gusts of around 60 mph was reported by a ham radio operator. The winds were accompanied by golfball size hail.
- 1 N Center 12 2050CST 0 0 Hail(1.75)
- 4 S Santee 12 1640CST 0 0 Hail(0.88)
  Hail up to nickel size lasted 20 minutes near Santee.
- Niobrara 25 1700CST 0 0 Hail(1.75)
- 1 E Venus 25 1745CST 0 0 Hail(0.88)
  A cooperative observer reported nickel size hail along with thunderstorm wind gusts of 50 to 60 mph.
- Royal 25 1810CST 0 0 Thunderstorm Wind (G55)
  A storm spotter reported thunderstorm wind gusts estimated at 65 mph in Royal. The strong winds were accompanied by 1/2 inch hail. The winds caused tree damage in town.
- 6 NW Clearwater 25 1853CST 0 0 Hail(0.75)
- 5 SW Elgin 25 1945CST 0 0 Hail(1.00)
Boone County
- 5 NW Petersburg 25 2002CST 0 0 Hail(0.88)

NEBRASKA, Extreme Northeast

Dixon County
- Ponca 07 1647CST 0 0 Hail(0.75)
Dakota County
- 5 W South Sioux City 07 1759CST 0 0 Hail(0.75)
- 4 E Willis 07 1850CST 1930CST 0 0 Flash Flood
  Heavy rain caused flooding of rural roads and lowlands.
**Storm Data and Unusual Weather Phenomena**

**June 2002**

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

**NEBRASKA, Extreme Northeast**

Dixon County
- Allen 07 1905CST 0 0 Thunderstorm Wind (G52)

**NEBRASKA, Extreme Southwest**

NEZ079>081 Dundy - Hitchcock - Red Willow
- Moderate to severe drought conditions persisted through the month of June across extreme southwestern Nebraska. Although local areas received beneficial moisture, most areas continued with below normal rainfall. The combination of much above normal temperatures and below normal precipitation resulted in below average crop yields and poor summer crop development

Dundy County
- 3 W Benkelman 07 1845MST 0 0 Hail(0.75)
- Red Willow County
  - 8 NE Bartley 15 1040MST 0 0 Hail(0.88)
  - 8 SE Bartley 17 1530MST 0 0 Hail(0.75)
  - 6 S Mc Cook 19 1545MST 0 0 Hail(2.00)
- Red Willow County
  - Benkelman 25 2055MST 0 0 Flash Flood

Street flooding in Benkleman, as well as on highway 34 east and west of Benkleman.

Dundy County
- 3 W Mc Cook 25 2105MST 0 0 Thunderstorm Wind (G52)

- Red Willow County
  - 4 W Mc Cook 25 2140MST 0 0 Thunderstorm Wind (G56)

- Hitchcock County
  - Trenton 25 2200MST 0 0 Thunderstorm Wind (G52)

Four to six-inch diameter tree limbs down.

**NEBRASKA, South Central**

Phelps County
- Holdrege 02 2030CST 0 0 60K 0 Thunderstorm Wind (G51)

Phelps County
- Funk 02 2045CST 0 0 30K 0 Thunderstorm Wind (G51)

Kearney County
- Wilco 02 2050CST 0 0 100K 0 Thunderstorm Wind (G51)

Kearney County
- Axtell 02 2110CST 0 0 100K 0 Thunderstorm Wind (G61)

Thunderstorms in Phelps and Kearney counties produced strong winds which downed power lines, overturned a couple of pivots and caused minor roof damage to a few homes. The town of Wilcox lost power for a time.

Buffalo County
- 7 W Ravenna 06 1840CST 0 0 0 0 Hail(0.75)

Hall County
- Grand Is 06 1845CST 0 0 0 0 Hail(0.75)

Buffalo County
- Kearney Arpt 06 1945CST 0 0 0 0 Thunderstorm Wind (G59) M

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191
An isolated complex of thunderstorms rumbled across Valley county during the evening hours. Hail was reported in the western and southern sections of the county, with many spots reported hail several times during the evening.
Scattered severe thunderstorms developed during the evening hours across portions of south-central Nebraska. The storms started out just south of Grand Island and spread east. Two tornadoes were observed from these storms. The first was in northern Clay county and was reported by a storm chaser to have set down for about a mile. The second was observed by an off duty NWS meteorologist and was only on the ground for a brief time. No damage occurred from either tornado. Very heavy rains were reported across Hamilton county were some flooding occurred. Numerous hail reports from the area indicated that stones ranged from the size of nickels to golf balls.

The town of Hebron received 3.36 inches of rain in one hour resulting in minor street flooding.
NEBRASKA, South Central

The large hail that fell across Buffalo county caused considerable damage to vehicles. Here is an example of the damage. This is a Buffalo County Sheriff’s patrol car. NWS Photo.

<table>
<thead>
<tr>
<th>Location</th>
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<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
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<tbody>
<tr>
<td>Buffalo County</td>
<td>12</td>
<td>1940 CST</td>
<td>0</td>
<td>15</td>
<td>50M</td>
<td>2M</td>
<td>Hail(5.00)</td>
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<tr>
<td>Kearney</td>
<td></td>
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</table>

An example of some of the large hail that fell in and around the city of Kearney Nebraska. Most hail was baseball to softball size but a few reports of 5 inch hail were received. Photo provided by Bob Mayo of Kearney.

All injuries were minor.

Kearney County

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
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<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
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<tbody>
<tr>
<td>9 NW Minden</td>
<td>12</td>
<td>1945 CST</td>
<td>0</td>
<td>0</td>
<td>5M</td>
<td>2M</td>
<td>Hail(2.75)</td>
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</table>

<table>
<thead>
<tr>
<th>Location</th>
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<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
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<td>2005 CST</td>
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<td>0</td>
<td>20M</td>
<td>3M</td>
<td>Hail(4.50)</td>
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</table>

194
A wicked severe thunderstorm ripped across Buffalo and Kearney counties, dumping hail larger than softballs and causing about 100 million dollars in damage in those two counties. As the severe storm rolled across Buffalo county, it moved southeast along Highway 40 through Amherst, near Riverdale and eventually into the city of Kearney. In excess of 6000 structures will require roof, window, and siding repairs. In some cases, hail stones penetrated the shingles, sheeting, and interior ceiling drywall. One person reported an 8 inch diameter hole in their roof. Another home owner sustained $60,000 in damage. One local auto dealership experienced damage to 297 cars on the lot. Hundreds of windows were lost on the campus of the University of Nebraska-Kearney. Eight police cruisers were damaged. Fifteen (15) people were treated for minor abrasions and released from the local hospital. Several hailstones measured 5 inches in diameter throughout the county, and there were unconfirmed reports of melon sized hail near Amherst.

In Kearney county, extensive damage was noted in the Minden area. Four and a half (4.5) inch diameter hail was reported in the city. The most extensive damage occurred at the indoor greenhouse facility which grows tomatoes. The glass structure was no match for the softball size hailstones. 2500 pans of glass were broken, including about 60 percent of the roof panes. Shards of glass penetrated the tomatoes and forced the expulsion of the product for safety reasons. Crop damage was widespread throughout the county as over 22,000 acres of corn, soybeans and alfalfa were severely damaged or destroyed. The storm continued south and produced more crop and property damage in parts of Webster and Franklin counties.
ranges from dimes to golf balls in size, but was driven by 50 mph winds. Several million dollars in crop damage was noted, with some fields a total loss. The most significant damage occurred along a patch from about 10 miles north of Oxford to around Orleans. A few farmers were expected to replant.

**NEBRASKA, South Central**

- **Furnas County**
  - **Beaver City**
    - Date: 17
    - Local Time: 1710CST
    - Path Width: 0
    - Character of Storm: Hail(1.00)

- **Harlan County**
  - **1 SW Orleans**
    - Date: 17
    - Local Time: 1805CST
    - Path Width: 0
    - Character of Storm: Hail(1.75)

- **Hall County**
  - **7 NW Grand Is**
    - Date: 18
    - Local Time: 2338CST
    - Path Width: 0
    - Character of Storm: Hail(1.25)

- **Gosper County**
  - **2 W Elwood**
    - Date: 19
    - Local Time: 1727CST
    - Path Width: 0
    - Character of Storm: Hail(0.75)

- **Phelps County**
  - **6 NE Bertrand**
    - Date: 19
    - Local Time: 1820CST
    - Path Width: 0
    - Character of Storm: Thunderstorm Wind (G62)

- **Phelps County**
  - **6 E Loomis**
    - Date: 19
    - Local Time: 1822CST
    - Path Width: 0
    - Character of Storm: Hail(0.75)

- **Buffalo County**
  - **1 W Riverdale**
    - Date: 19
    - Local Time: 1852CST
    - Path Width: 0
    - Character of Storm: Thunderstorm Wind (G62)

- **Buffalo County**
  - **Kearney Arpt**
    - Date: 19
    - Local Time: 1855CST
    - Path Width: 0
    - Character of Storm: Thunderstorm Wind (G51)

- **Buffalo County**
  - **2 S Poole**
    - Date: 19
    - Local Time: 1910CST
    - Path Width: 0
    - Character of Storm: Thunderstorm Wind (G62)

- **Hall County**
  - **Cairo**
    - Date: 19
    - Local Time: 1930CST
    - Path Width: 0
    - Character of Storm: Thunderstorm Wind (G51)

- **Howard County**
  - **Dannebrog**
    - Date: 19
    - Local Time: 1938CST
    - Path Width: 0
    - Character of Storm: Thunderstorm Wind (G50)

- **Hall County**
  - **5 N Grand Is**
    - Date: 19
    - Local Time: 1940CST
    - Path Width: 0
    - Character of Storm: Thunderstorm Wind (G62)

- **Howard County**
  - **2 N Farwell**
    - Date: 19
    - Local Time: 1945CST
    - Path Width: 0
    - Character of Storm: Thunderstorm Wind (G62)

- **Howard County**
  - **St Paul**
    - Date: 19
    - Local Time: 2000CST
    - Path Width: 0
    - Character of Storm: Thunderstorm Wind (G62)

Severe thunderstorms packing high winds fell trees and caused property damage stretching from near Bertrand to Saint Paul. The first round of damage, mainly to outbuildings, occurred northeast of Bertrand on a farmstead. North of Kearney, a mobile home was completely destroyed by the high winds. South of Poole, two irrigation pivots were rendered useless by the wind. Farther east in Cairo, 12 to 15 large trees were pushed over by the wind. In Saint Paul, a tree fell on a house and a vehicle. Finally, the roof was torn off the gymnasium at the R-1 school north of Grand Island. Fortunately, the school sustained little other damage aside from the roof.

**NEBRASKA, West**

- **Kimball County**
  - **15 NW Kimball**
    - Date: 01
    - Local Time: 1700MST
    - Path Width: 0
    - Character of Storm: Hail(1.00)

- **Banner County**
  - **8 S Harrisburg**
    - Date: 01
    - Local Time: 1712MST
    - Path Width: 0
    - Character of Storm: Hail(1.00)

- **Scotts Bluff County**
  - **Lyman**
    - Date: 01
    - Local Time: 1750MST
    - Path Width: 0
    - Character of Storm: Hail(1.00)

- **Sioux County**
  - **Harrison**
    - Date: 02
    - Local Time: 1905MST
    - Path Width: 0
    - Character of Storm: Hail(0.75)
**NEBRASKA, West**

Kimball County
- Bushnell: Hail(1.00) 003 1530MST 1534MST
- Kimball: Hail(0.75) 003 1555MST 1557MST
- Crawford: Hail(1.00) 015 1406MST 1409MST
- 16 N Alliance: Hail(0.75) 025 1429MST 1435MST

**NEVADA, North**

Elko County
- 5 W West Wendover: Hail(0.88) 018 1407PST 1417PST
  - Motorist reported nickel sized hail along I-80 just west of West Wendover.

Eureka County
- 22 SE Crescent Vly Arpt: Thunderstorm Wind (G53) 021 1300PST
- 22 SE Crescent Vly Arpt: Thunderstorm Wind (G52) 021 1300PST
  - Flat Springs RAWS site reported thunderstorm winds gusts of 61 mph and 60 mph respectively.

Lander County
- 12 E (Bam) Battle Mtn Arpt: Thunderstorm Wind (G51) 021 1245PST
  - The Argenta RAWS site reported a 59 mph wind gust.

Humboldt County
- Paradise Vly: Hail(0.75) 021 1430PST 1440PST

**NEVADA, South**

NONE REPORTED.

**NEVADA, West**

Washoe County
- Southwest Portion: Flash Flood 021 1720PST 1820PST
  - Flash flooding struck the Spanish Springs area when an estimated 2 inches of rain fell between 6:20 p.m. and 7:20 p.m. PDT. Most flooding occurred on the west side of Spanish Springs valley where heavy rain fell on hills left nearly barren from a recent wildfire. Water nearly two feet deep flooded streets and yards. Landscaping, sidewalks and streets were damaged by floodwaters and debris. Over one-half million dollars in damage occurred at the new Spanish Springs High School where classrooms, hallways, offices, two gymnasiums and an athletic field were damaged by flooding and mud.

**NEW HAMPSHIRE, North and Central**

Sullivan County
- Washington: Lightning 020 2200EST
  - Lightning struck the tower of the Washington Town Hall causing and estimated $11,000 in damage to the tower and equipment inside the building.

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<table>
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<tr>
<th>Location</th>
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<th>Time Local/ Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Injured</th>
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<th>Crops</th>
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<td>05</td>
<td>2200EST</td>
<td>0</td>
<td>0</td>
<td>11K</td>
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<td>Lightning</td>
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| Storm Data and Unusual Weather Phenomena June 2002 |

<table>
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<th>Time Local/ Standard</th>
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<th>Injured</th>
<th>Estimated Damage Property</th>
<th>Crops</th>
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NEW HAMPSHIRE, North and Central

<table>
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<th>Character of Storm</th>
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<tr>
<td>Rochester to Barrington</td>
<td>06</td>
<td>2200EST</td>
<td>2300EST</td>
<td>0</td>
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<td>15K</td>
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<tr>
<td>Coos County Countywide</td>
<td>12</td>
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<td>0</td>
<td>0</td>
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<td>Flood</td>
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</table>

Lightning struck a home in Barrington and a garage in Rochester causing fires. The home was left with a gaping hole in the roof and sustained significant water damage and a medium amount of smoke damage. The garage in Rochester was completely destroyed by the fire.

Three to five inches of rain in 18 hours caused many streams to rise above bankfull. Road washouts and minor flooding occurred in Milan, Berlin, Dummer, North Stratford, Colebrook, and Stark. In Lancaster, some residents in Page Hill mobile home park were evacuated, as well as residents in Indian Brook mobile home park. Beaver Dams may have been responsible for the Lancaster flooding.

<table>
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<th>Number of Persons Injured</th>
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<tr>
<td>NHZ002&gt;003 Southern Coos - Northern Grafton</td>
<td>12</td>
<td>1200EST</td>
<td>14 2200EST</td>
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<td>0</td>
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<td></td>
<td>Flood</td>
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</tbody>
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Three to five inches of rain fell in an 18-hr period causing northern sections of the Connecticut River to flood. Only minor flooding occurred. At Dalton, the Connecticut River was in flood from 2 pm on the 12th until 11 pm on the 14th, reaching a crest of 18.89 feet at 11 pm on the 13th, 1.89 feet above flood stage. At wells River, Vermont, the Connecticut was in flood from 9 pm on the 12th to 11 pm on the 13th, reaching a crest of 13.59 feet at 4 am on the 13th, 2.59 feet above flood stage.

Severe thunderstorms moving through northern New Hampshire knocked over numerous trees throughout much of northern New Hampshire. The falling trees downed power lines and damaged homes and vehicles. Trees were reported down in Whitefield, Jefferson, Lancaster, Berlin, Gorham, Carroll, Littleton, Lyman, Lisbon, Sugar Hill, Thornton, and Effingham.

<table>
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<th>Number of Persons Injured</th>
<th>Character of Storm</th>
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<td>1820EST</td>
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<td>1945EST</td>
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<td>Thunderstorm Wind (G50)</td>
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<tr>
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<tr>
<td>Grafton County Littleton</td>
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<td>Thunderstorm Wind (G50)</td>
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</tbody>
</table>
NEW HAMPSHIRE, North and Central

Grafton County
Bethlehem  26 1600EST  0 0  Thunderstorm Wind (G50)
Severe thunderstorms knocked over trees which downed power lines in the towns of Littleton and Bethlehem in Grafton County.

NEW HAMPSHIRE, Southern

Hillsborough County
Manchester  26 1815EST  0 0 10K  Thunderstorm Wind (G50)
Thunderstorm winds downed several trees and branches in Manchester, primarily near Lamb Road, Newton Road, and Coliseum Avenue.

Hillsborough County
Hillsborough  27 1830EST  0 0 5K  Thunderstorm Wind (G50)
A severe thunderstorm downed large branches in Hillsborough.

NEW JERSEY, Northeast

NJZ002>006-011 Western Passaic - Bergen - Eastern Passaic - Essex - Hudson - Union
01 0000EST  0 0  Drought
30 2359EST

Diligent water conservation practices and a wetter pattern helped ease drought conditions during June, which marked the second consecutive month of slightly above normal precipitation across the region. Northern New Jersey received an average of 4.50 inches of rain, which was 119 percent of normal.

At the end of June, a majority of the streams monitored in real time by the U. S. Geological Survey in New Jersey, were classified as having streamflows in the 25 to 74 percentile. There were a few streams in the 10 to 24 percentile. On June 30th, there were record low flows recorded at 4 sites. Ground water storage was much below normal capacity. On the other hand, lake and reservoir storage continued to improve.

The combined storage in the 13 major reservoirs serving northeast New Jersey on June 30th was 91.0 percent capacity, which was within 10 percent of normal. Capacities in the individual reservoirs on June 30th were:

- Newark Reservoir: 77.5% (Percent capacity)
- Jersey City Reservoirs: 92.9%
- North Jersey District: 99.4%
- United Water of New Jersey: 81.3%

The State of New Jersey extended the state-wide Drought Emergency that it issued on March 4th, through June 30th. Passaic, Bergen, Essex, Hudson, and Union Counties were included in this emergency.

Bergen County
Carlstadt  06 1845EST  0 0  Heavy Rain
Two and a half to three inches of rain resulted in a roof collapse at the Coca-Cola Building at 118 Woonachie Avenue in Carlstadt.

Bergen County
Garfield to Lodi  19 1531EST  0 0  Hail(1.00)
Spotters reported 1 inch diameter hail in Garfield at 4:31pm and 3/4-inch diameter hail in Lodi at 4:44pm.

Bergen County
Hackensack to Lodi  19 1545EST  0 0  Flood
Several reports of widespread significant flooding of area roadways were received.
NEW JERSEY, Northeast

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time/Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage to Property</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
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<td>19</td>
<td>1725EST 1740EST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>Hail(1.75)</td>
<td></td>
</tr>
<tr>
<td>Elizabeth</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Spotters reported ping pong size (1-3/4 inch) hail at 6:25 pm in Elizabeth, 1 inch diameter hail at 6:30 pm 5 miles south of Elizabeth, and 3/4-inch diameter hail at 6:40 pm in Elizabeth.</td>
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<tr>
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<td>0</td>
<td>Hail(1.00)</td>
<td>A spotter reported 1 inch diameter hail.</td>
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<tr>
<td>Clark</td>
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<td></td>
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<tr>
<td>Union County</td>
<td>19</td>
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<td></td>
<td>0</td>
<td>0</td>
<td>Hail(1.00)</td>
<td>Urban/Sml Stream Fld Spotters reported street flooding of poor drainage and low lying areas in Linden, Cranford, Elizabeth and Roselle.</td>
</tr>
<tr>
<td>Linden to Roselle</td>
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<tr>
<td>Bergen County</td>
<td>26</td>
<td>1600EST 1620EST</td>
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<td>0</td>
<td>Thunderstorm Wind (G50)</td>
<td>A spotter reported that strong winds knocked down several trees and power lines.</td>
</tr>
<tr>
<td>Westwood</td>
<td></td>
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<td></td>
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<td>Bergen County</td>
<td>26</td>
<td>1620EST 1625EST</td>
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<td></td>
<td>0</td>
<td>0</td>
<td>Hail(1.00)</td>
<td></td>
</tr>
<tr>
<td>Teterboro to Little Ferry</td>
<td>26</td>
<td>1620EST 1625EST</td>
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<td>0</td>
<td>Thunderstorm Wind (G50)</td>
<td>Spotters reported quarter size (1 inch diameter) hail along Route 80 near Teterboro at 5:20 pm and penny size (3/4-inch diameter) hail in Little Ferry at 5:25 pm.</td>
</tr>
<tr>
<td>Passaic County</td>
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<td>0</td>
<td>Thunderstorm Wind (G50)</td>
<td>Police reported that strong winds knocked over several trees.</td>
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<tr>
<td>Pompton Lakes</td>
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<tr>
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<td>0</td>
<td>Thunderstorm Wind (G52)</td>
<td>As a severe thunderstorm moved rapidly east, it produced high winds that downed trees and wires in both Plainfield and Union.</td>
</tr>
<tr>
<td>Plainfield to Union</td>
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<td>Thunderstorm Wind (G50)</td>
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<tr>
<td>West Orange</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
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<td>Hudson County</td>
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<td>1930EST</td>
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<td>Thunderstorm Wind (G50)</td>
<td>As a line of severe thunderstorms moved east, it produced high winds that downed numerous trees and wires in Union and power lines in both West Orange and Bayonne.</td>
</tr>
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<td>Bayonne</td>
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NEW JERSEY, South and Northwest


1 NW Beachwood to 1200EST

<table>
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<tr>
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<th>Location</th>
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<th>Path Width (Yards)</th>
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<th>Estimated Damage Property</th>
<th>Character of Storm</th>
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<td>2359EST</td>
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<td>0</td>
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<td>Drought</td>
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<tr>
<td>30</td>
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</table>

New Jersey entered June 2002 with a drought emergency in effect for the entire state with mandatory watering restrictions in place. Water usage statewide was down by as much as 20 percent. June 2002 was the fourth straight month of either average or wetter than normal precipitation for the state. The preliminary statewide average precipitation total for the month of June was 4.69 inches. Normal is 3.79 inches.

In spite of improving conditions, the long run of below normal precipitation was still taking its toll on the state, especially the southern half. Wells were being replaced in Atlantic, Burlington, Cape May, Cumberland and Ocean Counties at a faster pace than normal. The Kirkwood-Cohansey aquifer in Deerfield (Cumberland County) remained near record lows. Even wells in Millstone (Somerset County) up to 180 feet deep were going dry. On the positive side, surface reservoirs in the northern half of the state continued to recover. They returned to seasonal normals during the month and were about 90 percent of capacity on June 30th. Even the Spruce Run Reservoir (Hunterdon County) reached 70 percent of capacity during June. On May 1st it was at 47.9 percent of capacity. The Round Valley Reservoir (Hunterdon County) was at 94 percent of capacity. Normal precipitation gave farmers enough moisture for their crops.

The Delaware River Basin Commission, which oversees water supply throughout the Delaware River Basin declared a "drought" on December 3, 2001 when the supply of water in the New York City reservoir system dropped below a designated level for early December. The commission declared a drought emergency on December 18, 2001. Both triggered additional reductions in the amount of water released from the reservoirs into the Delaware River and the amount diverted out of the Delaware River Basin to New York City and New Jersey. Diversions to New York City dropped from 800 million gallons a day to 520 million gallons a day. The emergency declaration gave the commission the power to restrict the amount of water suppliers could draw from the basin. It gave the commission the authority to take water from municipal reservoirs to maintain river levels. It could also call for water releases from federal, state and privately owned reservoirs. Water from Lake Nockaminixon, the F.E. Walter Reservoir and Lake Wallenpaupack could be used to maintain river levels. They were last used for this purpose in the 1960s. The releases help protect the riverbank and aquatic life and also prevents salt water from flowing up the Delaware River. Salt water intrusion causes corrosion problems for industries and increases water treatment costs for municipalities that depend on the river for their water supply. Maintaining river levels are also important for groundwater reserves that are recharged by the river itself. Due to a wet May, on June 1st, the salt front along the Delaware River was six miles farther downstream than its normal June position. The emergency declaration also gives the commission the power to request that utilities and other companies that use more than one million gallons of water a day to prepare contingency plans to use less water and submit the plans to the commission. The New York City Reservoirs which feed the Delaware River increased from 81.2 percent of capacity on June 1st to 89.9 percent of capacity on June 24th. They then dropped to 89.0 percent of capacity as of July 1st. Reservoir storage was within the normal range. Under law, the Delaware River Basin Commission drought emergency declaration could not be lifted until reservoir levels remained 40 billion gallons above the drought watch level for 30 days. The commission voted to continue the drought emergency declaration through October 2002 unless all hydrological parameters returned to normal. On June 30th the salt front on the Delaware River was about five miles farther downstream than normal. For the month streamflow on the Delaware River was above normal.

In response to the improving conditions, some of the watering restrictions were relaxed. Lawns could be watered on an odd-even basis and vehicles washed on weekends. Non-lawn vegetation could also be watered on an odd-even basis. New sod or grass seed could be watered every day. Golf courses could use 80 percent of their normal usage (up from 50 percent). The moratorium on wells for new developments, running ornamental fountains and other restrictions remained in place. Several municipalities in Morris and Somerset Counties continued stricter restrictions.

On a county weighted average, June monthly precipitation totals ranged from 3.5 inches in Cape May County to 6.3 inches in Camden County. The least precipitation fell across the northeastern part of the state, while the heaviest precipitation fell in the southwest part of the state. Monthly precipitation totals were 4.98 inches at the Atlantic City International Airport and 5.10 inches in Trenton.

A rapidly moving wildfire aided by strong gusty northwest winds burned about 1,300 acres of forest, destroyed or damaged about 30 permanent structures and caused a major traffic disruption for a Sunday (the 2nd) as the Garden State Parkway was closed for 12 hours. It was the first time in 17 years that a wildfire destroyed a year-round home. Four firefighters were injured fighting the blaze. The fire was spotted about 1 p.m. EDT on the 2nd. Gusty northwest winds of between 30 and 40 mph as well as very low relative humidity levels (around 20 percent) helped spread the fire quickly. The fire began near Jake's Branch (a tributary of the Toms River) just southeast of County Route 530 in Berkeley Township. An illegal campfire (no permits were issued) was lit the night before as part of a birthday celebration. Three suspects allegedly left the scene without extinguishing the fire during the late morning of the
The warm, windy dry conditions helped spread the fire quickly. It was also a crown fire, jumping from tree to tree. In the space of about 30 minutes from when it was spotted, the fire jumped across the Garden State Parkway and threatened homes in the Pinewalnd section of Berkeley Township. Shortly after 2 p.m. EDT, the fire had made its farthest southeastward advancement into Beachwood Borough and Berkeley Township. At the height of the fire, about 500 homes in the Bayville Section of Berkeley Township were evacuated. Shelters were established at nearby schools and firehouses. About 170 residents of the Crystal Lake Healthcare and Rehabilitation Center were evacuated. In Beachwood Borough, about 5 to 6 families along Pinewald Road were also evacuated. About 350 firefighters battled the blaze. Dense smoke covered the Garden State Parkway and caused its closure at 130 p.m. EDT. The Parkway was closed from exit 58 in Little Egg Township to exit 82 in Toms River. This wreaked havoc for vacationers returning home after a warm weather weekend. Thousands of motorists were delayed and the gridlock spilled over to other roadways including U.S. Route 9 and the Atlantic City Expressway.

By nightfall, all but 70 families were permitted to return to their homes and all except three were permitted to return on the 3rd. The fire was considered contained as of 4 p.m. EDT on the 3rd. The Garden State Parkway was reopened at 130 a.m. EDT on the 3rd. The worst property damage occurred on Grand Central Parkway in Berkeley Township. One house was burned to its foundation, two others were severely damaged and rendered unlivable. The fire also charred the exterior of eleven other homes, destroyed four motor vehicles, one motorcycle, one boat, five fences and left 18 other sheds, garages and outbuildings in ruins. In Beachwood Borough, the siding of one house melted and one shed was destroyed. Borough Hall was closed until Friday the 7th because of smoke conditions. Radio equipment and 100 bicycles were destroyed. Officials believed up to 200 homes could have been destroyed by the fire if not for the efforts of the firefighters. Classes were cancelled on the 3rd at Berkeley Township's Central Region High School. All roads were reopened as of the 5th. While the fire was contained on the 3rd, it was not declared officially out until the heavy rain on the 6th. Two-thirds of all the trees within Jake's Branch County Park burned.

### Storm Data and Unusual Weather Phenomena

**NEW JERSEY, South and Northwest**

2nd.

<table>
<thead>
<tr>
<th>Cumberland County</th>
<th>Location</th>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greenwich</td>
<td>Greenwich</td>
<td>05 2100EST</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G52)</td>
<td>A severe thunderstorm pulled down four large trees in Greenwich Township and a couple of smaller ones in Vineland City. Conectiv Energy reported about 8,500 of its customers lost power.</td>
<td></td>
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<table>
<thead>
<tr>
<th>Hunterdon County</th>
<th>Location</th>
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<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
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</thead>
<tbody>
<tr>
<td>Frenchtown</td>
<td>Frenchtown</td>
<td>05 2115EST</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G52)</td>
<td>A severe thunderstorm pulled down a couple of large trees in Frenchtown Borough.</td>
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<table>
<thead>
<tr>
<th>Cape May County</th>
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<th>Estimated Damage Crops</th>
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<tr>
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<td>Ocean City</td>
<td>05 2350EST</td>
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<td>0</td>
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<td>50K</td>
<td>Lightning</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Lightning</td>
<td></td>
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</table>

A lightning strike hit the metal fire escape on the side of a motel in Ocean City. The fire escape wasSinged around the metal bolts that connected the fire escape to the building. A fire developed and spread through the walls of the third and fourth floors. Firefighters prevented the fire from spreading further. The third and fourth floors suffered smoke and fire damage while the first and second floors suffered water damage. People staying at the inn escaped unharmed. Damage was estimated at $50,000.

<table>
<thead>
<tr>
<th>Atlantic County</th>
<th>Location</th>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
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<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pleasantville</td>
<td>Pleasantville</td>
<td>06 0030EST</td>
<td>0</td>
<td>0</td>
<td>Lightning</td>
<td>Lightning struck the roof of a Pleasantville home. The ensuing fire damaged the attic and roof. Firefighters contained it in about 40 minutes before it could do further damage.</td>
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</table>

<table>
<thead>
<tr>
<th>Gloucester County</th>
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<th>Number of Persons Injured</th>
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<td>Pitman</td>
<td>Pitman</td>
<td>06 0140EST</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G50)</td>
<td>A severe thunderstorm pulled several wires down in central Gloucester County.</td>
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<table>
<thead>
<tr>
<th>Ocean County</th>
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<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
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<tr>
<td>Manahawkin</td>
<td>Manahawkin</td>
<td>06 1600EST 1615EST</td>
<td>0</td>
<td>0</td>
<td>Lightning</td>
<td>Lightning struck a shopping center in Manahawkin (Stafford Township) during the late afternoon of the 6th. The subsequent fire started from sparks from an electrical transformer box that the lightning struck. The fire was contained by 6 p.m. EDT, but two stores in the shopping center suffered smoke damage. The stores were evacuated without any injuries. Lightning also struck seven homes in Stafford Township. A couple of the homes struck on Bay Avenue suffered some minor damage. Lightning strikes caused about 6,000 Conectiv Energy customers to lose power in Ocean County,</td>
<td></td>
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<table>
<thead>
<tr>
<th>Ocean County</th>
<th>Location</th>
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<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
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<th>Estimated Damage Crops</th>
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<tbody>
<tr>
<td>Cedar Run</td>
<td>Cedar Run</td>
<td>06 1610EST</td>
<td>0</td>
<td>0</td>
<td>Hail(2.75)</td>
<td>A severe thunderstorm dropped hail as large as baseballs in Stafford Township. The hail cracked the windshields of vehicles. Farther north in Whiting (Manchester Township), quarter size hail fell.</td>
<td></td>
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<table>
<thead>
<tr>
<th>Ocean County</th>
<th>Location</th>
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<tbody>
<tr>
<td>Whiting</td>
<td>Whiting</td>
<td>06 1620EST</td>
<td>0</td>
<td>0</td>
<td>Hail(1.00)</td>
<td>A severe thunderstorm dropped hail as large as baseballs in Stafford Township. The hail cracked the windshields of vehicles. Farther north in Whiting (Manchester Township), quarter size hail fell.</td>
<td></td>
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NEW JERSEY, South and Northwest

Ocean County

Cedar Run to Bayville

<table>
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<th>Date</th>
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<tr>
<td>06</td>
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<td>Flash Flood</td>
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<td>1830EST</td>
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</tbody>
</table>

Thunderstorms also produced very heavy rain and caused poor drainage and stream flooding across the southern half of Ocean County. Doppler Radar Storm total estimates reached between three and four inches. Hardest hit were Berkeley and Stafford Townships. In Stafford Township, eight roads were closed in the Ocean Acres area. Several homes were flooded. The emergency room in the Southern Ocean County Hospital was damaged when an internal drain pipe burst. The ceiling collapsed above a nurse station. No one was injured. In Berkeley Township, three roadways were closed including U.S. Route 9. Vehicles were stranded on the roadways.

Cumberland County

Bridgeton to Vineland

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>06</td>
<td>1630EST</td>
<td>Thunderstorm Wind (G52)</td>
</tr>
<tr>
<td>1650EST</td>
<td></td>
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</table>

A severe thunderstorm knocked down several trees across Cumberland County. The combination of wind and lightning caused about 28,000 Conectiv Energy customers throughout southeast New Jersey to lose power that afternoon and evening. Vineland electric also reported about 1,200 of its customers lost power. In Upper Deerfield Township, three to four large trees fell down. In Bridgeton, wires were pulled down on Penn Street. One large tree was knocked down in Port Norris. In Vineland, downed limbs had to be cleared from seven city blocks.

Cape May County

Ocean City

<table>
<thead>
<tr>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>06</td>
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<td>Hail(0.75)</td>
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A severe thunderstorm knocked down a 100-year-old oak tree in Newfield Borough. The downed tree blocked a roadway. The same storm tore down large limbs and wires in Clayton Borough. The combination of wind and lightning caused about 28,000 Conectiv Energy customers throughout southern New Jersey to lose power that afternoon and evening.

Atlantic County

Somers Pt

<table>
<thead>
<tr>
<th>Date</th>
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<tbody>
<tr>
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</tr>
<tr>
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</table>

Lightning struck the parking lot of a closed service station in Somers Point. The lightning traveled to the underground gasoline tank. The subsequent explosion created a crater about 50 feet in diameter and 8 to 10 feet deep. No serious injuries were reported.

Atlantic County

Countywide

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Character of Storm</th>
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</thead>
<tbody>
<tr>
<td>06</td>
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<td>Urban/Sml Stream Fld</td>
</tr>
<tr>
<td>1900EST</td>
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</table>

Thunderstorms with heavy rain produced poor drainage flooding across Atlantic, Cape May and Cumberland Counties. Doppler Radar storm total estimates reached between 2 and 3 inches across the counties. In Atlantic County, roads that were flooded included the White Horse Pike (U.S. Route 30) and the Black Horse Pike (U.S. Routes 40 and 322). Half a foot of standing water was reported on the Atlantic City Expressway. In Cape May County, poor drainage flooding reached to vehicles' windows in low lying areas of Woodbine. Ponding of water reached similar depths in Cumberland County. Storm totals included 1.88 inches in Wildwood (Cape May County), 1.75 inches in Seabrook (Cumberland County), 1.70 inches in Absecon (Atlantic County), 1.59 inches at the Atlantic City International Airport and 1.13 inches at Millville.

Atlantic County

Milmay to Sweetwater

<table>
<thead>
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</thead>
<tbody>
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<td>Thunderstorm Wind (G52)</td>
</tr>
<tr>
<td>1730EST</td>
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</table>

A severe thunderstorm knocked down numerous trees, tree limbs and wires across the northwest half of Atlantic County. The combination of wind and lightning caused about 15,000 Conectiv Energy customers in the county to lose power that afternoon and evening. Most were restored by midnight that night, the rest during the day on the 7th.

Cape May County

Countywide

<table>
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<td>Thunderstorm Wind (G50)</td>
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<tr>
<td>1800EST</td>
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</table>

A severe thunderstorm pulled down numerous large tree limbs and wires throughout Cape May County. The combination of wind and lightning caused about 28,000 Conectiv Energy customers throughout southeast New Jersey to lose power that afternoon and evening. All power was restored by the next day.

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**Storm Data and Unusual Weather Phenomena**

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<tr>
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</tbody>
</table>

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**Location**

- New Jersey, South and Northwest
- Ocean County
- Cumberland County
- Cape May County
- Atlantic County

**Event Details**

- Thunderstorms produced heavy rain and caused poor drainage and stream flooding.
- Doppler Radar Storm total estimates reached between three and four inches in various locations.
- Lightning struck the parking lot of a service station in Somers Point, creating a crater.
- Thunderstorms pulled down numerous trees and wires in Atlantic, Cape May, and Cumberland counties.
- Power was restored partially or completely in the affected areas.

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**Estimated Damage**

- Property: Various roads, buildings,和服务站
- Crops: No specific damage mentioned

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**Character of Storm**

- Flash Flood
- Thunderstorm Wind (G52)
- Hail (0.75)
- Lightning
- Urban/Sml Stream Fld

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**Additional Information**

- Heavy rain caused poor drainage flooding in various counties.
- Doppler Radar Storm total estimates were reported in different areas.
- Thunderstorms were severe with downed trees and limbs.
- Power outages were widespread, with restoration efforts ongoing.

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**Table Data**

<table>
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**Conclusion**

The storm data and unusual weather phenomena in New Jersey, South and Northwest highlighted the severity of thunderstorms, heavy rain, and their impact on various infrastructure and power systems. The restoration efforts and damage assessment continue as the region recovers from these events.
NEW JERSEY, South and Northwest

Monmouth County
Holmdel 06 1740EST 0 0 0 Lightning
A lightning strike hit the gas meter of a Holmdel house. The subsequent fire melted some of its siding. Lightning strikes caused 3,000 Jersey Central Power and Light customers to lose power.

Monmouth County
East Portion 06 1800EST 2000EST 0 0 Flash Flood
Thunderstorms with heavy rain produced stream and urban flooding mainly across the eastern half of Monmouth County. Doppler Radar storm total estimates reached 3 to 4 inches in the southern part of Monmouth County. New Jersey State Route 36 was closed in Middletown Township. Other municipalities reporting flooding in the county included Deal, Howell, Long Branch, Middletown, Neptune City and Sea Bright. The storm total was 1.82 inches in Belmar and 1.62 inches in Freehold.

Camden County
5 E Atco 10 0950EST
11 0400EST 0 0 Wild/Forest Fire
A wildfire on June 10th in Wharton State Forest quickly consumed about 746 acres, forced the shutdown of an electric transmission line and the voluntary evacuation of about 100 homes. Students in an after school program in Thomas Richards Elementary School were also evacuated. Other schools held the children until the parents arrived. Electric power was rerouted with minimal interruptions. About 100 firefighters battled the blaze. No homes were damaged and no injuries were reported. The fire was discovered by the Forestry Service at 1050 a.m. EDT. The slow recovery from drought conditions and southeast winds of about 15 mph spread the fire quickly. The fire was contained at 5 p.m. EDT on the 10th and was under control overnight.

Warren County
Still Vly 12 1345EST 0 0 Thunderstorm Wind (G52)
A severe thunderstorm knocked down several trees in Greenwich Township. One tree fell on and damaged a vehicle. No injuries were reported.

Hunterdon County
Wertsville 12 1425EST 0 0 Thunderstorm Wind (G50)
A severe thunderstorm pulled down wires and caused power outages in East Amwell Township.

Somerset County
Green Knoll 12 1425EST 0 0 Thunderstorm Wind (G50)
A severe thunderstorm pulled down wires and caused power outages in Bridgewater Township.

Middlesex County
South Plainfield 12 1445EST 0 0 Thunderstorm Wind (G50)
A severe thunderstorm tore down several large limbs in South Plainfield Borough. The fallen limbs littered a couple of back streets.

NJZ014-023>026
Eastern Monmouth - Western Cape May - Eastern Cape May - Eastern Atlantic - Eastern Ocean
14 2130EST 0 0 Coastal Flooding
15 0000EST
The combination of a high pressure system building over New England and the Canadian Maritimes and a low pressure system moving northeast along the Middle Atlantic coastal waters produced some isolated tidal flooding the late evening of the 13th and more widespread, but still minor, tidal flooding during the late evening of the 14th. The high tide on the 14th at Sandy Hook reached 6.97 feet above mean lower low water and at Cape May Harbor reached 6.95 feet above mean lower low water. Minor tidal flooding begins at 6.7 feet above mean lower low water.

Monmouth County
Bradley Beach 16 1645EST 1 0 0 0 Rip Currents
A 31-year-old man drowned while trying to rescue his daughter and son and two other children who were caught in a rip current on the Brinley Avenue Beach in Bradley Beach. A second 19-year-old man who also was trying to help was rescued. The children made it to shore themselves, but the father also was caught by the rip current. His body was found at 7 p.m. EDT. M3IHW

Burlington County
Delran 19 0829EST 0 0 Hail(0.75)

Burlington County
Willingboro to Timbuctoo 19 0835EST 0840EST 0 0 Hail(0.75)

Burlington County
Timbuctoo 19 0840EST 0 0 Thunderstorm Wind (G50)
A severe thunderstorm dropped penny size hail from Delran northeast through Willingboro and Westampton Townships. The severe thunderstorm also pulled down a couple of trees and several tree limbs in Westampton Township.

Storm Data and Unusual Weather Phenomena

<table>
<thead>
<tr>
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<td>0 0</td>
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</table>

June 2002

204
NEW JERSEY, South and Northwest

Camden County
Somerdale to Glendale
19 1510EST 0 0 Hail(0.75)
Penny size hail fell in Voorhees Township and Somerdale.

Camden County
Camden to Cherry Hill
19 1528EST 1538EST 0 0 Hail(1.75)
A severe thunderstorm dropped golf ball size hail in Camden at Cooper Hospital. Farther to the southeast, the same storm dropped penny size hail in Cherry Hill.

Burlington County
Marlton to Mt Laurel
19 1542EST 1557EST 0 0 Hail(1.75)
A severe thunderstorm dropped hail as large as golf balls in Marlton (Evesham Township). Farther to the north smaller hail fell in Maple Shade (marble size), Mount Laurel (penny size) and Hainesport (pea size).

Camden County
Somerdale
19 1610EST 0 0 Hail(1.00)

Burlington County
Marlton
19 1615EST 1815EST 0 0 Flash Flood
Thunderstorms also produced very heavy rain across Evesham Township and caused poor drainage and stream flooding. Vehicles were flooded up to their chassis at the Marlton Traffic Circle (intersection of New Jersey State Routes 73 and 70). Doppler Radar storm total estimates reached between 2 and 3 inches in the township, most of which fell in about an hour.

Camden County
Countywide
19 1625EST 0540EST 0 0 Flood
Thunderstorms also dropped very heavy rain across central and northwest Camden County. Doppler Radar storm total estimates reached between 4 and 6 inches in the central part of the county. This caused considerable stream, urban and poor drainage flooding. Flooding was reported at the Berlin Traffic Circle and at the intersection of New Jersey State Route 38 and Cuthbert Boulevard in Cherry Hill Township. The Cooper River at Haddonfield was above its 2.8 foot flood stage from 829 p.m. EDT on the 19th through 640 a.m. EDT on the 20th. It crested at 3.45 feet at 1245 a.m. EDT on the 20th. Storm totals included 2.80 inches in Somerdale and 2.60 inches in Cherry Hill.

Gloucester County
Southeast Portion
19 1710EST 2030EST 0 0 Flash Flood
Slow moving thunderstorms with heavy rain dropped a Doppler Radar estimated three to four inches of rain within two hours across extreme southeast Gloucester County affecting Monroe Township the most. This caused poor drainage and stream flooding. The Black Horse Pike (U.S. Route 322) was closed in Monroe County. Flooding also spread into a couple of homes in the township. No serious injuries were reported.

N.J.Z009>010-012>013-015>023
Hunterdon - Somerset - Middlesex - Western Monmouth - Mercer - Salem - Gloucester - Camden - Northwestern Burlington - Western Ocean - Cumberland - Western Atlantic - Western Cape May
24 0900EST 1900EST 0 0 Excessive Heat
The first prolonged period of heat and humidity of the season affected most of central and southern New Jersey for most of the work week of June 24th. Even the shore reached into the 90s on Monday the 24th as winds were blowing offshore. A strong cold frontal passage during the evening of the 27th ended the hot spell. Highest temperatures included 96 degrees in Beach Haven (Ocean County), 95 degrees at the Marina within Atlantic City and Margate (Atlantic County) and New Lisbon (Burlington County), 94 degrees at the Atlantic City International Airport, in Mount Holly (Burlington County), Somerville (Somerset County), West Deptford (Gloucester County) and Freehold (Monmouth County), 93 degrees in Seabrook (Cumberland County), New Brunswick (Middlesex County) and Flemington (Hunterdon County) and 92 degrees in Wildwood (Cape May County) and Millville (Cumberland County).

Burlington County
Cinnaminson to Lumberton
24 1530EST 0 0 Thunderstorm Wind (G50)
A severe thunderstorm tore down several large trees, numerous tree limbs and wires in Cinnaminson, Lumberton, Moorestown and Mount Laurel. PSE&G reported about 6,300 of its customers lost power.

Burlington County
Hainesport
24 1535EST 0 0 50K 0 Lightning
Lightning struck a home in Hainesport during the afternoon of the 24th. The subsequent fire damaged the front of the first floor and...
NEW JERSEY, South and Northwest

the basement and rendered the house uninhabitable. No serious injuries were reported.

Burlington County
Willingboro 24 1655EST 0 0 Thunderstorm Wind (G50)
A severe thunderstorm pulled down large limbs and wires in Willingboro Township.

Burlington County
Chatsworth 24 1700EST 0 0 Lightning
Lightning strikes knocked out power to about 10,000 Conectiv Energy customers in the Chatsworth-Tabernacle area in Burlington County and the Ship Bottom area of Ocean County.

Ocean County
Ship Bottom 24 1730EST 0 0 Lightning
Lightning strikes knocked out power to about 10,000 Conectiv Energy customers in the Chatsworth-Tabernacle area in Burlington County between 6 p.m. and 6:30 p.m. EDT. Subsequent lightning strikes knocked out power to about 3,600 Conectiv Energy customers in Beach Haven around 8:30 p.m. EDT.

Ocean County
Beach Haven 24 1930EST 0 0 Lightning

Warren County
Johnsonburg 26 1424EST 0 0 Hail(0.88)
A severe thunderstorm dropped dime to nickel size hail in Blairstown and Frelinghuysen Townships.

Sussex County
Greendell 26 1437EST 0 0 Thunderstorm Wind (G52)
A severe thunderstorm tore down trees and power lines in Greendell (Green Township).

Warren County
Great Meadows 26 1440EST 0 0 Thunderstorm Wind (G52)
A severe thunderstorm tore down trees and power lines in the Great Meadow area of Independence Township and also some other trees and wires in Greenwich and Frelinghuysen Townships.

Sussex County
Hamburg 26 1508EST 0 0 Thunderstorm Wind (G52)
A SKYWARN spotter reported that a severe thunderstorm tore down trees in Hamburg Borough.

Morris County
Mt Freedom to Hibernia 26 1555EST 0 0 Hail(0.75)
Pea to dime size hail fell in Randolph and Rockaway Townships.

Hunterdon County
Countywide 27 1547EST Thunderstorm Wind (G61)
Thunderstorm Wind (G61)

Hunterdon County
Ludlow Asbury 27 1600EST 1700EST 0 0 Urban/Sml Stream Fld
A severe thunderstorm hammered Hunterdon County during the late afternoon of the 27th. Wind damage was reported in Bethlehem, Delaware, Raritan, Readington, Tewksbury and Union Townships. In Readington Township, a church steeple was toppled by the wind and fell through the roof leaving a 30 foot hole in the church. In addition, water damage occurred as heavy rain fell. In Union Township, the metal roof of a barn was torn away. In Raritan Township, two homes and one vehicle were damaged by fallen trees. In Franklin Township, numerous trees were knocked down in the same direction in the Quakertown section. Roads were closed by downed trees in Delaware Township. The heavy rain caused a mudslide that closed the intersection of 643 and 173 in Bethlehem Township. Jersey Central Power and Light reported about 11,000 of its customers lost power with Hunterdon County the hardest hit.

Somerset County
Central Portion 27 1635EST 1645EST 0 0 Thunderstorm Wind (G52)
A severe thunderstorm knocked down numerous trees and wires across the central part of Somerset County. It hit Bound Brook Borough the hardest. In Bound Brook, about 30 trees were uprooted, a dozen of which blocked roadways. Two vehicles were badly damaged by fallen trees as was one garage. Two houses suffered minor damage from fallen trees. In Somerville and Raritan, sections of U.S. Route 202 were closed because of fallen tree limbs and wires. Jersey Central Power and Light reported about 11,000 of its customers lost power in New Jersey.
NEW JERSEY, South and Northwest

Somerset County
Bound Brook 27 1645EST 0 0 2K 0 Lightning

Somerset County
South Bound Brook 27 1650EST 0 0 0 Lightning
Lightning struck and damaged a couple of homes and apartments in Bound Brook and South Bound Brook Boroughs. In South Bound Brook, a lightning strike caused a roof fire. In Bound Brook, a lightning strike fried a home's attic fan. Another lightning strike damaged a house's chimney.

Warren County
Still Vly 27 1815EST 0 0 Thunderstorm Wind (G52)
A line of severe thunderstorms downed trees and power lines in Greenwich Township and caused further damage farther south in Hunterdon County.

Hunterdon County
Countywide 27 1820EST 1855EST 0 0 Thunderstorm Wind (G52)
The second severe thunderstorm of the day knocked over additional trees and wires throughout Hunterdon County. A trained SKYWARN Spotter reported downed trees in Pittstown (Franklin Township). A second SKYWARN Spotter reported a peak wind gust of 55 mph at White House Station. The Hunterdon County office of emergency management received about 400 weather related phone calls from both thunderstorms.

Somerset County
Neshanic to North Plainfield 27 1857EST 1907EST 0 0 Thunderstorm Wind (G52)
The second severe thunderstorm of the day pulled down additional trees and wires down in Franklin Township, Hillsborough Township and North Plainfield Borough.

Mercer County
Countywide 27 1900EST 1920EST 0 0 Thunderstorm Wind (G52)
A line of severe thunderstorms knocked down trees and wires throughout parts of Mercer County.

Somerset County
Bound Brook 27 1915EST 0 0 0 Lightning
A lightning strike punched a hole in the roof of a Bound Brook home.

NEW MEXICO, Central and North

NMZ001 Northwest Plateau
01 0000MST 2000MST 0 0 40K 0 Drought
Heat and dryness dominated throughout the month with only the northeas sections of the state receiving any soaking rain from scattered strong thunderstorms. Elsewhere dry thunderstorms, especially those about mid-month sparked numerous wildfires some of which were fanned into large complex fires by hot and gusty afternoon winds. At least ten major fires were recorded which consumed nearly 200,000 acres. Some mountain homes were lost but the main concern was for damage to watersheds and wildlife habitat. Smaller lightning caused fires numbered well over 100. Most national forests were closed to public access and use later in the month. A brief period of rain and higher humidity towards the last week of the month slowed the fires and allowed crews to make substantial headway with containment. The second half of the month was also noted for the extensive smoke which poured into western and central sections of the state from wildfires to the west in Arizona. Lingering smoke and haze reduced visibilities to 5-10 miles compared to usually conditons of 40-60 miles. Dryness and the lowest river levels in decades forced reduced irrigation and city water restrictions.

Curry County
Clovis 02 2000MST 2100MST 0 0 Lightning
A strong thunderstorm over Clovis yielded 1 to 2 inches of rain over some sections of the city, but it also produced at least 5 lightning fires that destroyed several barns and storage buildings and caused a 400 acre grassfire.

Guadalupe County
15 N Santa Rosa 04 1250MST 0 0 Hail(1.00)
Guadalupe County
17 W Santa Rosa 04 1250MST 0 0 Hail(1.00)
NEW MEXICO, Central and North

Guadalupe County
7 NE Newkirk 04 1525MST 0 0 Hail(1.75)
San Miguel County
Conchas Dam 04 1540MST 1600MST 0 0 Hail(1.75)
Quay County
Logan 04 1608MST 0 0 Hail(2.00)
Quay County
7 NE Logan 04 1620MST 0 0 Funnel Cloud
Curry County
5 N Clovis 12 1429MST 0 0 Hail(0.75)
Curry County
Clovis Arpt 12 1435MST 0 0 Thunderstorm Wind (G50)
Curry County
6 SW Pleasant Hill 12 1437MST 0 0 Hail(1.75)
Curry County
6 SW Pleasant Hill 12 1437MST 0 0 Thunderstorm Wind (G61)
Union County
10 N Gladstone 13 1447MST 0 0 Hail(0.75)
Colfax County
12 NE Abbott 13 1450MST 0 0 Hail(1.00)
Colfax County
15 NE Abbott 13 1558MST 0 0 Hail(0.75)
Harding County
5 N Mills 13 1540MST 0 0 Hail(0.88)
Colfax County
20 S Raton 13 1708MST 0 0 Hail(0.75)
Colfax County
5 NE Abbott 13 1842MST 0 0 Hail(0.75)

Several large thunderstorms, all of them copious hail producers, moved across south central Colfax County into northwest Harding and western Union counties. The storm that began northwest of Springer during mid-afternoon moved east across Interstate 25 just north of Springer and then turned a little southeast dumping tons of hail over the open range north of State Road 56. Ice covered the ground 6 to 12 inches over a wide region creating the appearance a winter snow storm. Highway road crews spent hours removing and hauling hail. Hail in Chico Creek east of Springer filled the arroyo 12 to 14 feet deep and then was measured 2 feet higher than the two and half foot guard rail at Highway 56. Ice was still present in the arroyo 3 weeks after the event.

Colfax County
12 N Cimarron 14 1345MST 1410MST 0 0 Hail(1.25)
Colfax County
6 N Maxwell 14 1427MST 0 0 Funnel Cloud
Colfax County
2 N Maxwell 14 1447MST 0 0 Hail(1.75)
Colfax County
1 N Springer 14 1455MST 0 0 Hail(1.00)
Colfax County
2 N Springer 14 1515MST 0 0 Hail(1.75)
Sandoval County
Rio Rancho 14 1605MST 1614MST 0 0 Hail(0.75)
NEW MEXICO, Central and North

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
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Several strong thunderstorms combined over northwest Curry County and swept southward over western sections of the county with strong winds and at least one small tornado. About 70 power and utility poles were blown over east of Melrose.
NEW MEXICO, Central and North

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A thunderstorm with heavy rain and hail caused extensive damage to hay and other agricultural crops south of Fort Sumner. Several ranch roads were deeply cut by runoff and a set of water and gas lines were uprooted.

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Three-quarter inch size hail covered the ground nearly 2 inches deep in Clovis.

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Power lines and several poles were blown down in southwest Clovis.
NEW MEXICO, South Central and Southwest

Sierra County
15 S Hillsboro
14 1400MST 1420MST
0 0 5K Hail(1.00)
A severe thunderstorm produced hail up to quarter size which accumulated to a depth of 8 inches in Lake Valley. The weight of the hail partially collapsed the roof of a new home in the area.

NEW MEXICO, Southeast

Eddy County
Carlsbad
09 1235MST 1243MST
0 0 25K 0 Thunderstorm Wind (G62)[M]
A severe thunderstorm produced a microburst over the south side of Carlsbad. Local media reported part of the roof of a local convenience store was destroyed.

Lea County
Eunice
09 1628MST
0 0 0 0 Thunderstorm Wind (G52)
Thunderstorms resulted in severe wind gusts across parts of southeast New Mexico during the afternoon of the 9th. The most significant damage was in the south parts of Carlsbad.

Lea County
15 W Jal to 19 W Jal
13 1510MST 1512MST
0 0 0 0 Hail(1.00)
A severe storm produced up to quarter size hail west of Jal. This was an isolated severe thunderstorm associated with a very active event in areas of West Texas.

Eddy County
6 S Carlsbad
19 1729MST
0 0 0 0 Thunderstorm Wind (G50)[M]

Lea County
24 NW Jal
19 1730MST
0 0 0 0 Hail(0.75)

Lea County
17 NW Jal to 24 NW Jal
19 1800MST 1900MST
0 0 0 0 Thunderstorm Wind (G52)
A resident of this area of Lea County reported what he described as the “weirdest weather he has seen in the last 40 years.” During the course of a one hour period, ten separate events of wind...each reaching as high as 60 mph occurred. Each of these events seemed to originate near a location called Antelope Ridge

Eddy County
North Portion
20 2135MST 2225MST
0 0 0 0 Flash Flood
Numerous reports of flash flooding were received from the area around Artesia. Most of the reports from the city of Artesia proper were associated with flash flooding along Eagle Creek. Highway 2 was closed north of Artesia near the Eddy/Chavez County line along Walnut Creek.

NEW YORK, Central

Tompkins County
Groton
05 1815EST
0 0 150K Thunderstorm Wind (G50)
Numerous trees and a few wires downed. The Groton Rural Cemetery had a large number of huge old trees fall down. The largest monument in the cemetery received damage when the obelisk topping it fell off. It broke into three pieces when it hit the ground. An estimate for the repair was more than $100,000. A tree fell onto a house. Another tree fell onto a gazebo.

Cortland County
Cortland to Freetown Corners
05 1815EST 1820EST
0 0 10K Thunderstorm Wind (G50)
Trees and wires down in Cortland Estates mobile home park. Also a tree down at the intersection of Route 13 and East Homer Avenue in the town of Homer. Trees were also downed in the town of Solon and Freetown.

Cortland County
Cortland
05 1815EST
0 0 1K Lightning
Lightning struck the stop light at the intersection of North Main and West Main.
NEW YORK, Central

Tioga County
Nichols 05 1815EST 0 1 Lightning
Women struck by lightning.

Cortland County
Cortland 05 1818EST 0 0 Hail(0.75)

Broome County
2 W Castle Creek 05 1830EST 0 0 Hail(0.75)

Cortland County
Cortland 05 1830EST 0 0 Urban/Sml Stream Fld
Route 215 flooded due to heavy thunderstorm rains.

Tomkins County
Groton 05 1830EST 0 0 5K Urban/Sml Stream Fld
Road washouts due to heavy thunderstorm rain.

Cortland County
Freetown Corners 05 1830EST 0 0 Hail(0.75)

Broome County
Triangle 05 1830EST 0 0 5K Urban/Sml Stream Fld
A mudslide due to heavy thunderstorm rain blocked a portion of road at East Hill and Merrill Creek Roads.

Tioga County
Barton 05 1835EST 0 0 2K Thunderstorm Wind (G50)
Trees down.

Chenango County
Norwich 05 1835EST 0 0 1K Lightning
Lightning struck a house in the city of Norwich causing a water pipe to burst.

Chenango County
Norwich 05 1835EST 0 0 5K Urban/Sml Stream Fld
Heavy rain from a thunderstorm caused a street closing, the sewer to back up, and a man hole cover to lift in the city of Norwich.

Otsego County
Pittsfield 05 1840EST 0 0 10K Thunderstorm Wind (G50)
Roof blown off of a barn from strong thunderstorm winds.

Chenango County
1 S Bainbridge to 1 SW Bainbridge 05 1855EST 1.1 300 0 0 50K Tornado (F0)
The tornado initially touched down at the electric generating substation south of the village, on state route 7. Numerous large trees and power lines were downed. The tornado continued in a northeast direction across the Susquehanna River, to county road 39. Here a small barn was flattened and numerous large hardwood trees were sheared off or had limb broken. A tree fell across two cars. One very large, healthy limb fell across the roof of a house causing significant damage. Many smaller buildings were destroyed. The tornado then continued northeast, shearing off more tree limbs, before reaching interstate 88. An eyewitness there backed up his pickup to get out of the way of the tornado. After crossing I-88, more tree damage was evident for about 200 yards. The damage path became more diffuse before it crossed state route 206, where it quickly dissipated. Many trees and wires were downed along the entire route. The total path length was about 1.1 miles. The most intense damage was within the first 0.7 miles. The maximum width of the damage was about 300 yards, with the core damage from the tornado around 75 yards.

Broome County
Endwell to Binghamton 05 1855EST 190EST 0 0 15K Thunderstorm Wind (G50)
Tree down on a house in Vestal. Tree down on house in Endwell. Also numerous other trees down in Endwell. A large branch fell onto the roof of a porch collapsing it on the west side of Binghamton.

Otsego County
Milford to Oneonta 05 1900EST 0 0 3K Thunderstorm Wind (G50)
Trees down in Milford. Tree down in Oneonta.

Chenango County
Coventry 05 1900EST 0 0 10K Urban/Sml Stream Fld
**NEW YORK, Central**

Heavy thunderstorm rains closed approximately 3 and a half miles of state route 235 from county route 30 (Long Hill Road) south to Davey Road. The road was undermined because of damage to the Wylie Brook culvert.

<table>
<thead>
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**Onondaga County North Portion**

Heavy thunderstorm rains caused flash flooding across northern Onondaga County. Rain started before 6 AM reaching its greatest accumulations of generally half an inch to an inch an hour between 9 AM and noon. During the afternoon it tapered off becoming scattered and less intense. Radar rainfall estimates exceeded 5 inches in a narrow band. Rain spotters in northern Onondaga County and an ASOS at the Syracuse airport in North Syracuse all had between 2 and 4 inches of rain. No spotters were in the area of worst flooding in Baldwinsville. In the village of Baldwinsville Tannery Creek overflowed. A state of emergency was declared at 1 PM. This shut down all of the streets in the entire village. Water in the streets was two to three feet deep. Water flooded an estimated 80 homes. Some of the homes had water filling their basements and into the first floor. 6 houses suffered major damage. A bowling alley in Baldwinsville suffered major water damage. The bowling alley was recently renovated and worth more than a million dollars. During the morning an eight block area was evacuated. The area was bordered by Route 31, Virginia Street, East Oneida Street, and Mechanic Street. Fires departments across the area were called in to assist local officials pumping cellars and businesses. They also sandbagged buildings to keep the water out. Elden elementary school closed early due to a leaky roof and high water. Other flooding was reported in Lysander, Clay, Liverpool, North Syracuse, and Cicero. Route 370 was closed in Lysander due to high water. In Clay, a plugged catch basin flooded a ballpark and Caughdenoy Road. Nearby streets had as much as two feet of water on them. Also in Clay high water was on roads including Route 31 and in Cold Springs. In Liverpool, the basement of Mother’s Restaurant flooded. In North Syracuse, many roads had water on them but none had to be closed. In the town of Cicero, east Gillette Road, and Hogan Road were closed due to flooding. Also Beach Road and Thompson Road were flooded.

**Lightning struck the rear entryway and deck of a house in the village of Skaneateles. The lightning started a fire which was quickly extinguished by firefighters.**

**Strong thunderstorm winds downed wires.**

**Lightning struck the roof and chimney of a three story apartment building. Bricks flew as far as 100 feet. These flying bricks broke building and car windows across the street at Hiawatha Used Cars, bore holes in the roof of another building, and dented the siding of Tucci Furniture across the street. The lightning knocked out a window and partially collapsed a ceiling on the third floor. The seven families in the building had to find somewhere else to stay until the building was repaired.**

**Heavy thunderstorm rains caused minor road flooding.**
## Storm Data and Unusual Weather Phenomena

### June 2002

<table>
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<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
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</table>
NEW YORK, Central

**Tompkins County**

Countywide 26 1845EST 0200EST 0 0 2K Lightning

Lightning caused damage to several substations and transformers knocking out power to 2400 customers.

**Chemung County**

Erin 26 1855EST 0 0 Hail(0.75)

**Chemung County**

Erin to Van Etten 26 1855EST 1900EST 0 0 3K Thunderstorm Wind (G50)

Numerous trees downed or snapped over. Power lines downed.

**Tioga County**

Spencer 26 1908EST 0 0 Hail(0.75)

**Chemung County**

Smithville Flats 26 1955EST 0 0 5K Thunderstorm Wind

Numerous trees and wires down. The trees were down in a broken line perpendicular to and crossing Ridge Road and Route 220. A farmhouse, truck, and car on Ridge Road received damage.

**Steuben County**

Countywide 26 2200EST 0200EST 0 0 50K Flash Flood

Heavy thunderstorm rains caused flooding across the county. Numerous thunderstorms dropped two to four inches of rain from Hornell to Bath in the previous 6 hours. Most of the rain fell in an even shorter period of time. Numerous roads were washed out, flooded, and/or closed. Some of the closed roads were state and county roads. The towns that were the hardest hit were Hornellsville, Fremont, and Howard. The city of Hornell was also hard hit. Almond Lake Dam was backing up 5 feet of water an hour. It is believed the runoff inflow at this time may have exceeded the runoff inflow associated with Agnes of June 1972.

**Onondaga County**

Clay 27 1305EST 0 1 1K Lightning

Lightning struck a house on Oswego Road. A teenager was treated and released for minor injuries at a local hospital.

**Oneida County**

Sylvan Beach to Westmoreland 27 1340EST 1400EST 0 0 10K Thunderstorm Wind (G60)

Trees and power lines downed in Sylvan Beach, Oneida Castle, Marcy, Whitestown, Annsville, Verona, Floyd, and Westmoreland.

**Madison County**

Bridgeport to Oneida 27 1343EST 1353EST 0 0 15K Thunderstorm Wind (G60)

Trees and wires downed in Bridgeport, Lakeport, Canastota, and Oneida.

**Oneida County**

Westmoreland 27 1400EST 1 1 Lightning

Lightning struck a 31 year old woman and mother of two in the front yard of her home. She was knocked unconscious. She was later pronounced dead at the hospital. Her children were also in the yard at the same time, but only her 5 year old son got struck. He received a first degree burn to his foot. The 6 year old daughter had no injuries. F31OU

**Oneida County**

Westmoreland 27 1400EST 0 0 100K 1K Lightning

Lightning struck a barn on Springhouse Road starting a fire. The fire was not discovered for about 2 hours after the lightning strike. The barn was completely destroyed. 1100 bales of hay were lost. 4 cows died. Other buildings nearby were saved by the firefighters.

**Madison County**

Sullivan 27 1400EST 0 0 20K Lightning

Lightning struck the roof of a house on Smith Ridge Road. The lightning started a fire that damaged the second floor and roof.

**Oneida County**

Chadwicks 27 1415EST 0 0 10K Lightning

Lightning struck the Mohawk Ltd. plant on Bleachery Avenue causing an explosion. The lightning strike also caused the fire alarm suppression system to go off.

**Steuben County**

Caton 27 1430EST 0 0 5K Thunderstorm Wind (G50)

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**Steuben County**

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**Onondaga County**

Clay 27 1305EST 0 1 1K Lightning

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**Oneida County**

Sylvan Beach to Westmoreland 27 1340EST 1400EST 0 0 10K Thunderstorm Wind (G60)

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**Madison County**

Bridgeport to Oneida 27 1343EST 1353EST 0 0 15K Thunderstorm Wind (G60)

Trees and wires downed in Bridgeport, Lakeport, Canastota, and Oneida.

**Oneida County**

Westmoreland 27 1400EST 1 1 Lightning

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**Oneida County**

Chadwicks 27 1415EST 0 0 10K Lightning

Lightning struck the Mohawk Ltd. plant on Bleachery Avenue causing an explosion. The lightning strike also caused the fire alarm suppression system to go off.

**Steuben County**

Caton 27 1430EST 0 0 5K Thunderstorm Wind (G50)
NEW YORK, Central

Trees and lines down. 2100 electric customers were without power in Steuben County and harder hit adjacent Chemung County.

Chemung County
Big Flats to Southport
27  1445EST  1500EST
0  4  50K  Thunderstorm Wind (G55)
Strong thunderstorm winds took down a tree on church Street in Elmira. The snapped off 6 feet from the ground. The tree landed on a car parked in a driveway. Four people in the station wagon suffered only minor scrapes from glass when the tree landed on the rear of the car. Musical equipment in the back was smashed. In Big Flats it took down several large trees along Route 352. Some of the trees took down utility lines. A large produce stand was flipped. 2100 customers lost power in Chemung County and adjacent Steuben County.

Chemung County
Big Flats
27  1445EST
0  0  Hail(0.88)

Steuben County
Countywide
27  1530EST  1800EST
0  0  10K  Flash Flood
Flooding reported in Rexville, Corning, Caton, and Addison. In Caton, Routes 225 and 34 were flooded. Street flooding was reported in Corning and Addison. In Corning, cars were stuck on Spencer Hill Road. Also in Corning, basement flooding was reported. This flooding was caused by heavy thunderstorm rains. The rain fell on saturated ground due to flooding earlier that day.

Tioga County
Owego
27  1545EST
0  0  10K  Thunderstorm Wind (G50)
Tree and power pole down on house.

Onondaga County
Syracuse
27  1545EST  1700EST
0  0  20K  Urban/Sml Stream Fld
Heavy thunderstorm rains caused street and basement flooding. Some cars were under water. Sump pumps in the Hotel Syracuse were overwhelmed. The fire department came in and pumped out a foot of water in the basement and 6 feet of water in the elevator shaft. The rain fell on wet ground from earlier thunderstorms that day in addition to rain from earlier in the week.

Oneida County
Trenton to Oriskany
27  1545EST  1800EST
0  0  Urban/Sml Stream Fld
Heavy thunderstorm rains caused street flooding in Trenton and Oriskany. Thunderstorms moved through the area during the three hours prior to the onset of the flooding. This fell on ground already wet from thunderstorms the day before.

Oneida County
Trenton
27  1555EST
0  0  1K  Thunderstorm Wind (G50)
Trees and power lines downed.

Madison County
Oneida
27  1600EST
0  0  20K  Thunderstorm Wind (G50)
Thunderstorm winds downed large limbs, trees, and lines. One tree fell onto a SUV at the Oneida Animal Hospital.

Madison County
Oneida
27  1600EST  1730EST
0  0  10K  Urban/Sml Stream Fld
Heavy thunderstorm rains caused street flooding in the city of Oneida. Approximately 9 inches of water was on Fairrie Street. The rain fell on wet ground from earlier thunderstorms that day in addition to rain from earlier in the week.

Broome County
Endicott to Johnson City
27  1605EST  1610EST
0  0  1K  Thunderstorm Wind (G50)
Power lines and trees down.

Oneida County
Utica
28  1330EST  1500EST
0  0  50K  Flash Flood
Heavy thunderstorm rains again caused street and basement flooding. One to three inches of rain fell in less than two hours. The day before also had flooding after two rounds of thunderstorms dropped heavy rain. This day more than 100 homes had water in their basements. Street flooding was widespread. Water on the streets was as deep as two feet. Some streets were closed. Cars were disabled in the high water. 500 customers lost power.
Diligent water conservation practices and a wetter pattern helped ease drought conditions during June, which marked the second consecutive month of above normal precipitation across the region. The lower Hudson River Valley and the Catskill Region received an average of 5.45 inches of rain, which was 147 percent of normal.

At the end of June, a majority of the streams monitored in real time by the U. S. Geological Survey in New York, were classified as having streamflows in the 25 to 74 percentile. Ground water storage was much below normal capacity. On the other hand, lake and reservoir storage continued to improve.

The combined storage in the New York City reservoir system on June 30th was 88.3 percent capacity, which was 7.8 percent below normal. Capacities in the individual reservoirs on June 30th were:

- Croton System: 95.4% (Percent capacity)
- Roundout Reservoir: 95.4%
- Ashokan Reservoir: 80.1%
- Schoharie Reservoir: 78.1%
- Cannonsville Reservoir: 90.8%
- Pepacton Reservoir: 88.2%
- Neversink Reservoir: 87.7%

The New York State Department of Environmental Conservation extended the Drought Warning for Long Island, New York City, Rockland and Westchester Counties through June 30th. The Drought Warning for Orange and Putnam Counties was downgraded to a Drought Watch.

As a low pressure system developed southeast of Long Island, northeast winds increased to 20 to 25 knots and seas built to around 8 feet, which was measured by Buoy 44025 (about 20 miles south of Fire Island Inlet).

A 25 foot pleasure boat named “Eleni II” left Jones Inlet at 6:00 am for the Freeport Hudson Anglers Shark Tournament and was last seen at 7:00 am about 12 miles south of Jones Beach. It is presumed that rough seas capsized the boat, which resulted in the drowning deaths of all 4 men. The 4 men on board were all seasoned fisherman, some with more than 30 years experience dedicated to catching big fish.

M40BO, M61BO, M39BO, M46BO

Police reported that several trees were knocked down in the Bronx.

Television media reported that strong winds knocked over a 50 foot tree in Washington Heights.

Police reported that strong gusty winds knocked down large tree limbs and damaged a house.

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<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
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</table>
NEW YORK, Coastal

Spotters reported that strong winds knocked over several trees, that resulted in a disruption of power.

Bronx County
Bronx 26 1420EST 0 0 Flood
Radio media reported widespread street flooding in the Bronx.

Westchester County
Yorktown 26 1420EST 0 0 Thunderstorm Wind (G50)
Police reported that strong winds knocked down several trees and power lines.

Putnam County
Carmel 26 1455EST 0 0 Thunderstorm Wind (G50)
Police reported that strong winds knocked down several trees and power lines.

Westchester County
Yorktown Hgts 26 1510EST 0 0 Thunderstorm Wind (G50)
Police reported that strong winds knocked over several trees.

Rockland County
New City 26 1610EST 0 0 Thunderstorm Wind (G50)
Police reported that strong winds knocked down several trees and power lines.

Bronx County
Bronx 26 1635EST 0 0 Thunderstorm Wind (G50)
Police reported that strong winds knocked down several trees and power lines.

Westchester County
Hartsdale 26 1640EST 0 0 Thunderstorm Wind (G50)
Police reported that strong winds toppled several trees.

As severe thunderstorms moved across the region, they produced high winds and heavy rain. High winds downed many trees and power lines across the region. Heavy rain produced flash floods in the Bronx.

Nassau County
Bethpage 26 1715EST 0 14 500K Lightning
NEW YORK, Coastal

Lightning struck St. Paul's Lutheran Church on Stewart Avenue in Bethpage. It quickly ignited a fire that spread from the attic down and caused the roof to collapse. “The Bethpage Fire Chief said 14 fire fighters were injured, half of them during a partial roof collapse. Seven fire fighters hurt in the collapse suffered burns and bruises from falling debris. The others were felled by heat exhaustion. All of these fire fighters were taken to hospitals for treatment. Ten fire departments assisted Bethpage in fighting this fire.

Nassau County
Jericho
26 1715EST

Police reported that strong winds knocked over several trees.

Suffolk County
Huntington to Northport
26 1730EST 1740EST

A spotter reported an estimated 58 MPH wind gust near the intersection of Route 110 and Jericho Turnpike near Huntington at 6:30 pm. Police reported that strong winds knocked down several trees and power lines in Northport and Melville at 6:40 pm.

Suffolk County
Melville
26 1730EST

Lightning struck an electrical transformer along Route 110 in Melville. It also struck houses in Melville and Deer Park.

As severe thunderstorms moved across the region, they produced high winds, frequent and dangerous lightning strikes, and heavy rain. High winds downed many trees and power lines across the region. The dangerous combination of heavy rain, high winds, and lightning produced flash floods and widespread power outages due to fallen trees and power lines across the northeast Bronx, including City Island. Additionally, at least 4 cars were crushed by fallen trees in the lower Pelham Gardens area.

Putnam County
Mahopac
28 1750EST

As a severe thunderstorm moved slowly south, it produced high winds that downed a tree on Route 6N.

Westchester County
Shrub Oak
28 1753EST

As a severe thunderstorm moved southeast, it produced high winds that downed numerous trees and wires in the vicinity of Shrub Oak, just southeast of Putnam Valley.

Suffolk County
Eatons Neck
28 1935EST

As a severe thunderstorm moved southeast, it produced a peak wind gust of 77 mph, measured at the Eaton's Neck U.S.C.G. Station.

Suffolk County
Davis Park
28 2000EST

As a severe thunderstorm moved southeast, it produced high winds that damaged a roof in Davis Park.

NEW YORK, East

Herkimer County
Herkimer
05 1820EST

Saratoga County
Malta
05 1830EST

219
Rensselaer County

Thunderstorm Wind

Stillwater to 1900EST

Altamont 2020EST

Minor wind damage, resulting in downed trees and power lines, was also noted in a couple of places in Albany, Columbia,
NEW YORK, East

and Greene Counties. Large hail was reported in a few localities. Quarter-size hail fell at Stillwater and Malta, Saratoga County. One inch hail was reported in Carlisle, Schoharie County and Voorheesville, Albany County. Lightning from a non-severe thunderstorm struck a home in the town of Herkimer. Luckily the house never caught fire, but the strike did burn a small section of the siding of the house. Another lightning strike did set a farm structure on fire in Brunswick, Rensselaer County causing significant damage. During the height of the storm up to 10,000 customers were without electrical power. Lightning struck a barn in Brunswick, causing significant damage to that structure. Due to a computer glitch, the first National Weather Service Warning issued for Saratoga and Washington Counties was stripped of its UGC coding. A correction was quickly sent out and received by the Emergency Alert System via NOAA Weather Radio. However, the National Verification Database base did not accept the corrected coding.

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<th>Location</th>
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<td>16 1400EST 1410EST</td>
<td>1 125</td>
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Thunderstorms developed along an occluded frontal boundary by midday June 16. Their intensity was aided by a large cold pocket of air aloft combined with the strong June midday sunshine. As the storms approached the Hudson Valley of eastern New York, some of them became severe. Most of the reports were of hail damage. However, there were confirmed tornado touchdowns as well as one non-tornadic destructive wind report. The first of two tornados in eastern New York touched intermittently down in the town of Florida, Montgomery County between Klapmeyer and Hartley Roads, to the southwest of Amsterdam. The path of this tornado varied between 50 and 100 yards and was approximately 3 miles long. Numerous trees were downed and there was minor damage to several houses as well as one barn. The tornado vortex then lifted back off the ground but was still visible as a funnel cloud. The vortex touched down again briefly in the town of Amsterdam, near Mcquade Road. This second path was only a quarter mile long and about 50 yards wide. Approximately 10 trees were knocked down and minor damage was reported to two homes. The top wind gusts were estimated to be around 70 mph with this tornado. A second twister, ranked as an F1 with top winds estimated around 100 mph, touched down near Pawling in Dutchess County, very close to the place a tornado had struck just two weeks before. The path of this tornado was 125 yards wide and a mile long. Damage was mostly confined to many downed and twisted trees. One tree did fall onto a garage thereby damaging it. Thunderstorm winds blew two trees down on Ravena Road in the town of Coeymans, Albany County. Golf ball size hail (1.75 inches in diameter) was reported in Chatham while ping pong size hail (1.5 inches in diameter) was reported in the town of Stockport, Columbia County. One inch hail fell at Hopewell Junction, Dutchess County. There were additional reports of dime size hail in Schenectady, Rensselaer and Greene Counties.

Schoharie County  
Central Bridge | 17 1745EST | 0 0 | Hail(0.88) |
Schenectady County  
Duanesburg | 17 1755EST | 0 0 | Hail(1.00) |
Rensselaer County  
Troy | 17 1835EST | 0 0 | Hail(1.00) |
Rensselaer County  
East Greenbush | 17 1838EST | 0 0 | Hail(0.75) |
Rensselaer County  
Poestenkill | 17 1853EST | 0 0 | Hail(1.00) |
Rensselaer County  
Wynantskill | 17 1845EST | 0 0 | Hail(1.75) |

For the second afternoon in a row, scattered thunderstorms developed across eastern New York as the result of a very unstable
atmosphere abetted by an unseasonably cold pocket of air aloft. Two thunderstorm cells became severe. They both deposited large hail. The first thunderstorm cell resulted in nickle-size hail in Central Bridge, Schoharie County and one inch hail at Duansburg, Schenectady County. Later, a second cell dumped large hail in various portions of Rensselaer County. Hailstones, of golf ball size (1.75 inches in diameter) were reported in Wynantskill, while one inch hail fell at both Troy and Poestenkill and dime-size hail fell in North Greenbush.

**Montgomery County**

- **Glen**
  - Date: 23
  - Time: 1630EST
  - Person Killed: 0
  - Person Injured: 0
  - Property Damage: Thunderstorm Wind (G64) M

**Dutchess County**

- **Rhinebeck**
  - Date: 23
  - Time: 2000EST
  - Person Killed: 0
  - Person Injured: 0
  - Property Damage: Thunderstorm Wind

Widely scattered thunderstorms developed along a stationary front during the late afternoon and evening of June 23, in the Mohawk Valley. Two separate storms became briefly severe. A weather spotter measured a wind gust of 64 mph in the town of Glen, Montgomery County. No damage was reported from this storm. The second severe storm moved into Dutchess County, knocking down trees in the town of Rhinebeck.

**Greene County**

- **Coxsackie**
  - Date: 25
  - Time: 2130EST
  - Person Killed: 0
  - Person Injured: 0
  - Property Damage: Thunderstorm Wind

- **Durham**
  - Date: 25
  - Time: 2130EST
  - Person Killed: 0
  - Person Injured: 0
  - Property Damage: Thunderstorm Wind

- **Columbia County**
  - **Hudson**
    - Date: 25
    - Time: 2300EST
    - Person Killed: 0
    - Person Injured: 0
    - Property Damage: Lightning

Scattered nocturnal thunderstorms developed along a warm front during the late evening of June 25 across eastern New York. One cell became briefly severe as it moved into Greene County. Thunderstorm winds knocked down trees and powerlines in the towns of Durham and Coxsackie. Lightning from the same storm also caused an electrical fire in the town of Hudson. The fire produced minimal property damage.

**Ulster County**

- **Countywide**
  - Date: 26
  - Time: 1410EST
  - Person Killed: 0
  - Person Injured: 0
  - Property Damage: Thunderstorm Wind

**Dutchess County**

- **Tivoli**
  - Date: 26
  - Time: 1437EST
  - Person Killed: 0
  - Person Injured: 0
  - Property Damage: Thunderstorm Wind

**Dutchess County**

- **Wappingers Falls**
  - Date: 26
  - Time: 1501EST
  - Person Killed: 0
  - Person Injured: 0
  - Property Damage: Thunderstorm Wind

A line of thunderstorms developed in an unstable, humid air mass, during the afternoon of June 26 across southeastern New York. Two of the cells became briefly severe. Thunderstorm winds knocked down trees in many locations of Ulster County. Trees and powerlines were also blown down in the towns of Tivoli and Wappingers Falls, Dutchess County. As many as 2,000 lightning strikes were reported in one hour and resulted in as many as 16,500 customers without power in the Mid Hudson Valley.

**Saratoga County**

- **Saratoga Spgs**
  - Date: 27
  - Time: 1325EST
  - Person Killed: 0
  - Person Injured: 0
  - Property Damage: Thunderstorm Wind

**Washington County**

- **Cambridge**
  - Date: 27
  - Time: 1413EST
  - Person Killed: 0
  - Person Injured: 0
  - Property Damage: Thunderstorm Wind

**Herkimer County**

- **Newport**
  - Date: 27
  - Time: 1450EST
  - Person Killed: 0
  - Person Injured: 0
  - Property Damage: Thunderstorm Wind

**Fulton County**

- **Gloversville**
  - Date: 27
  - Time: 1520EST
  - Person Killed: 0
  - Person Injured: 0
  - Property Damage: Thunderstorm Wind

- **Mayfield**
  - Date: 27
  - Time: 1520EST
  - Person Killed: 0
  - Person Injured: 0
  - Property Damage: Thunderstorm Wind

**Saratoga County**

- **Saratoga Spgs**
  - Date: 27
  - Time: 1634EST
  - Person Killed: 0
  - Person Injured: 0
  - Property Damage: Flash Flood

**Washington County**

- **Eagle Bridge**
  - Date: 27
  - Time: 1645EST
  - Person Killed: 0
  - Person Injured: 0
  - Property Damage: Thunderstorm Wind

**Herkimer County**

- **Middleville**
  - Date: 27
  - Time: 1652EST
  - Person Killed: 0
  - Person Injured: 0
  - Property Damage: Flash Flood
**NEW YORK, East**

**Schenectady County**
- Niskayuna: 27 June 2002 at 1710EST, 0 killed, 0 injured, 10K damage, Thunderstorm Wind

**Albany County**
- Guilderland: 27 June 2002 at 1715EST, 0 killed, 0 injured, 10K damage, Thunderstorm Wind

**Rensselaer County**
- Buskirk: 27 June 2002 at 1715EST, 0 killed, 0 injured, 10K damage, Thunderstorm Wind

Lines of thunderstorms erupted ahead of a cold front, during the afternoon of June 27, across eastern New York. The atmosphere was very unstable, allowing quite a few of the storms to become severe. All of the storm damage in eastern New York was the result of non-tornadic winds. A severe thunderstorm pounded the city of Saratoga Springs causing power outages and major property damage throughout the city. Many traffic lights were knocked out causing traffic problems. A large tree in Congress Park was knocked down, bringing down telephone and power lines as well as leaving one man trapped inside his car for about half an hour. Thunderstorm winds also knocked down trees and power lines in the town of Newport, Herkimer County, Cambridget in Washington County as well as Niskayuna in Schenectady County. Trees were knocked down in the towns of Mayfield and Gloversville, Fulton County. Powerlines were blown down in the town of Guilderland, Albany County. Another severe thunderstorm not only toppled trees in the town of Eagle Bridge, but damaged some homes in that Washington County town. Training of the storms produced excessive rainfall and localized flash flooding. Street flooding was noted on Maple Avenue in Saratoga Springs, Saratoga County as well as in the town of Middleville, Herkimer County.

**NEW YORK, North**

**NYZ028-031**
- Northeast Clinton - Southwest Clinton: 12-13 June 2002
  - Flood
  - Path Length: 0 miles
  - Path Width: 0 yards
  - Estimated Damage: 20K
  - Character of Storm: Flooding

A frontal boundary stalled across portions of New York and New England and helped to focus heavy rainfall across this area. Convective precipitation moved from northwest to southeast across the area from Canada. Rainfall from midday on June 11th through the morning of June 12th averaged 2 to 4 inches with locally higher amounts in the mountainous areas. Countywide flooding of small streams and fields started during the early morning hours of June 12th through the afternoon of the 12th with a few roads impacted. Flooding of The Great Chazy main stem river followed the heavy rain and continued into the evening June 13th.

**St. Lawrence County**
- Massena: 23 June 2002 at 1725EST, 0 killed, 0 injured, 1K damage, Thunderstorm Wind

A cold front moved southeast from Canada, and triggered thunderstorms during the evening hours. A few storms reached severe criteria. Thunderstorms blew down trees in Massena, NY.

**Franklin County**
- Malone: 23 June 2002 at 1745EST, 0 killed, 0 injured, 5K damage, Thunderstorm Wind

A cold front moved southeast from Canada, and triggered thunderstorms during the evening hours. A few storms reached severe criteria. Thunderstorms blew down trees and power lines in Malone, NY.

**St. Lawrence County**
- Norfolk: 23 June 2002 at 1755EST, 0 killed, 0 injured, 1K damage, Thunderstorm Wind

**St. Lawrence County**
- Potsdam: 23 June 2002 at 1805EST, 0 killed, 0 injured, 1K damage, Thunderstorm Wind

A cold front moved southeast from Canada, and triggered thunderstorms during the evening hours. A few storms reached severe criteria. Thunderstorms blew down trees in the New York towns of Norfolk and Potsdam.

**Clinton County**
- Peru: 23 June 2002 at 1820EST/1822EST, 0 killed, 0 injured, 1K damage, Thunderstorm Wind

A cold front moved southeast from Canada, and triggered thunderstorms during the evening hours. A few storms reached severe criteria. Thunderstorms blew down trees in Peru, NY.

**St. Lawrence County**
- Waddington: 23 June 2002 at 1840EST, 0 killed, 0 injured, 15K damage, Thunderstorm Wind

**St. Lawrence County**
- Massena: 23 June 2002 at 1855EST, 0 killed, 0 injured, 1K damage, Thunderstorm Wind

**St. Lawrence County**
- Norfolk: 23 June 2002 at 1900EST, 0 killed, 0 injured, 1K damage, Thunderstorm Wind

A cold front moved southeast from Canada, and triggered thunderstorms during the evening hours. A few storms reached severe criteria. Thunderstorms blew down trees in the towns of Norfolk and Massena. In Waddington, a tree was blown over onto a truck.

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**Storm Data and Unusual Weather Phenomena**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
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<th>Number of Persons Killed</th>
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**June 2002**
NEW YORK, North

Franklin County
Malone

23 1845EST  0 0 5K Thunderstorm Wind
A cold front moved southeast from Canada, and triggered thunderstorms during the evening hours. A few storms reached severe criteria, with trees and power lines blown down in Malone, NY.

Essex County
Willboro

26 1400EST  0 0 Hail(0.75)
A warm front moved northeast across the region, followed by a warm and humid airmass. Scattered thunderstorms developed during the afternoon of June 26th, and a few of them reached severe criteria. Thunderstorms that moved across Essex county, NY resulted in 3/4 inch hail in the town of Willboro.

Clinton County
Ellenburg Depot

27 1515EST 1520EST 0 0 Tstm Wind/Hail
A cold front approached the region during the late afternoon from Canada. Showers and thunderstorms developed during the afternoon hours, with a few approaching severe limits. Small hail and gusty winds were reported in Ellenburg Depot, NY.

NEW YORK, West

Cattaraugus County
Little Vly

04 1705EST  0 0 5K Hail(0.75)

Livingston County
Mt Morris

04 1745EST  0 0 5K Hail(0.75)

Chautauqua County
Kiantone

04 2315EST  0 0 8K Thunderstorm Wind (G58)
Thunderstorms developed north of a warm front that extended across Ohio and Pennsylvania. The thunderstorms intensified during the late afternoon hours with 3/4" to 1" hail reported in Little Valley, Ellicottville and Mount Morris. Power lines were downed in East Otto. Trees were downed in Kiantone.

Wayne County
Newark

14 0930EST  0 0 50K Flash Flood
15 0330EST

Cayuga County
Conquest

14 1025EST  0 0 35K Flash Flood
15 0330EST

Wyoming County
Warsaw

14 2020EST  0 0 35K Flash Flood
15 0000EST

Wyoming County
Warsaw

14 2020EST  0 0 10K Thunderstorm Wind (G55)
A narrow band of rain persisted from Lake Ontario across Wayne and northern Cayuga counties and remained through early afternoon. Later that afternoon an isolated thunderstorm produced flash floods and wind damage in Warsaw, Wyoming county. The thunderstorm also produced downpours that resulted in flash flooding. As much as five inches of rain fell. Basements were flooded in Newark, Butler and Wolcott. Stayton Road in Conquest, Dalton Road in Ira and Rte. 370 in Cato were flooded.

Niagara County
North Tonawanda

17 1230EST  0 0 5K Hail(0.88)

Niagara County
Niagara Falls

17 1315EST  0 0 5K Hail(1.00)

Niagara County
Wheatfield

17 1420EST  0 0 10K Hail(0.75)

Erie County
East Amherst

17 1430EST 1545EST  0 0 10K Flash Flood

Niagara County
North Tonawanda

17 1430EST 1630EST  0 0 50K Flash Flood
A line of thunderstorms developed over southwest Niagara and northern Erie counties with successive training on either side of Tonawanda Creek. Two inches of rain fell in less than an hour and a nursing home was evacuated as a precaution as clogged drains held the heavy rains on the building rooftop. Dozens of roads were under water. Pea- to nickel-sized hail covered the ground in North Tonawanda. The thunderstorms produced hail up to 1” in diameter.

Thunderstorms developed in a warm, moist, unstable flow during the late morning and afternoon hours. The strong thunderstorms produced damaging wind gusts that downed trees and power lines, including a transmission line in Oswego county that cut power to more than 10,000 customers. An additional 8,000 lost power in the Rochester Metro area and 3,500 in the northern Finger Lakes region. The storms dropped over two inches of rain in a short period of time causing minor damage when drains and ditches overflowed onto roads and streets in parts of the Southern Tier, especially Allegany county. In Ontario, Wayne county, a stand of 30 pine trees were snapped midway up their trunks.
Alamance County
Haw River 01 1545EST 0 0 Hail(0.75)
Guilford County
Greensboro 01 1545EST 0 0 Thunderstorm Wind (G50)
Trees fell onto power lines.
Forsyth County
Levittown 01 1555EST 0 0 Hail(0.75)
Orange County
Hillsborough 01 1600EST 0 1 Thunderstorm Wind (G50)
Trees were blown over. One fell onto a car, injuring one person.
Wake County
Zebulon 01 1635EST 0 0 Hail(1.75)
Franklin County
Franklinlinton 01 1650EST 0 0 Thunderstorm Wind (G50)
Several trees were blown down.
Nash County
Spring Hope 01 1650EST 0 0 Thunderstorm Wind (G50)
Numerous trees were blown down, some across Route 581.
Wake County
Wake Forest 01 1650EST 0 0 Hail(0.75)
Davidson County
Lexington 01 1655EST 0 0 Thunderstorm Wind (G50)
Trees were blown onto Interstate 85 near the Route 64 intersection.
NORTH CAROLINA, Central

Randolph County
Asheboro
   01 1700EST
   Trees and power lines were blown down near the city limits.

Edgecombe County
Bathsheba
   01 1710EST
   Trees were blown down.

Wilson County
Buckhorn Xrds
   01 1715EST
   Trees were blown down across Highway 42.

Johnston County
3 SW Clayton to Clayton
   01 1731EST
   Trees were blown down in the Cleveland area.

Wayne County
Stevens Mill
   01 1740EST
   Trees were blown down.

Wayne County
Countywide
   01 1755EST
   Trees were blown down in Fremont, Pikeville, and Patetown.

Davidson County
Linwood
   02 1545EST
   Trees were blown down.

Chatham County
Siler City
   02 1700EST
   A house sustained roof damage from fallen trees and limbs.

Person County
Timberlake
   06 1820EST
   A tree was blown down and fell across power lines, knocking out power.

Davidson County
Jackson Hill
   06 1845EST
   Trees were blown down along Highway 8.

Nash County
Stanhope
   06 1900EST
   Numerous reports of trees down, causing power outages and damaging vehicles.

Halifax County
Glenview
   06 1910EST
   Trees were blown down.

Chatham County
Goldston
   06 1915EST
   Several trees were blown down.

Halifax County
10 SW Enfield
   06 1930EST
   Trees were blown down near the border of Nash county.

Wilson County
Sims
   06 1955EST
   Trees and powerlines were blown down along US 264.

Halifax County
Enfield
   06 1958EST
   Trees were blown down.

Hoke County
5 S Rockfish
   06 2115EST
   Trees were blown down near the border with Robeson County.
NORTH CAROLINA, Central

Johnston County

Princeton

14 1235EST

A tin roof was partially torn off a house, and a steeple was blown off a church.

Guilford County

Oak Ridge

26 1600EST

At least four house fires were started by lightning strikes in the Oak Ridge area.

Davidson County

Countywide

26 1730EST

Thunderstorm winds flipped over a mobile home onto a truck. The home was destroyed, and the two residents were injured.

Randolph County

10 W Asheboro

26 1740EST

Thunderstorm winds flipped over a mobile home onto a truck. The home was destroyed, and the two residents were injured.

Wake County

Raleigh

28 2215EST 2245EST

Flooding was reported along Avent Ferry Road. A creek overflowed into a parking lot.

NORTH CAROLINA, Central Coastal

Greene County

Maury

01 1800EST

Pitt County

G riffon

14 1422EST

Onslow County

Richlands

14 1435EST

Jones County

Comfort

14 1450EST

Onslow County

Half Moon

14 1450EST

Craven County

Cove City to Tuscarora

14 1520EST 1530EST

Beaufort County

Aurora to Pinetown

14 1535EST 1550EST

Numerous trees and power lines blown down from Aurora to Pinetown.

Washington County

10 S Plymouth

14 1540EST

Washington County

4 NE Pleasant Grove

14 1545EST

Pamlico County

Merritt

17 1435EST

Craven County

Havelock

17 1600EST

Dare County

Rodanthe

22 1733EST

M18IW

Rip Currents

June 2002
**NORTH CAROLINA, Extreme Southwest**

Cherokee County  
Marble 04 1340EST 0 0  
Nickel sized hail reported near Marble.

Cherokee County  
Murphy 04 1500EST 0 0 10K  
Trees reported down in Murphy.

Cherokee County  
Murphy 04 1600EST 1700EST 0 0  
A mud and rock slide was reported on highway 64E near the hospital.

Cherokee County  
Unaka 20 1730EST 0 0 10K  
Two trees were reported down in Unaka.

**NORTH CAROLINA, North Coastal**

Perquimans County  
Winfall to Hertford 14 1530EST 0 0 5K  
Trees down. Several trailers damaged and power outages.

Pasquotank County  
Weeksville 14 1600EST 0 0 2K  
Trees down.

Camden County  
Old Trap 14 1620EST 0 0 1K  
Numerous large tree limbs down in road.

Currituck County  
2 S Grandy 14 1627EST 0 0 2K  
Large tree down on road.

**NORTH CAROLINA, Northwest and North Central**

Stokes County  
Sandy Ridge 01 1450EST 0 0  
Hail(0.75)

Rockingham County  
Mayodan 01 1455EST 0 0 0  
Thunderstorm Wind

Stokes County  
7 N King 01 1455EST 0 0 0  
Hail(2.25)

Caswell County  
7 W Yanceyville 01 1500EST 0 0 0  
Thunderstorm Wind

Stokes County  
2 SW Danbury 01 1510EST 0 0  
Hail(1.50)

Stokes County  
Walnut Cove 01 1520EST 0 0 0  
Thunderstorm Wind

Yadkin County  
East Bend 01 1555EST 0 0  
Hail(0.88)

Ashe County  
7 N Jefferson 01 1720EST 0 0 0  
Thunderstorm Wind  
Thunderstorms during the afternoon of the 1st produced damaging winds and hail up to tennis ball size.

Thunderstorm winds downed trees 7 miles west of Yanceyville, Walnut Cove, 7 miles north of Jefferson, and downed trees and power lines in Mayodan.
NORTH CAROLINA, Northwest and North Central

Watauga County
Valle Crucis

- 04 1330EST: Thunderstorms during the afternoon of the 4th produced hail up to dime size.

Wilkes County
2 E Hays

- 05 0545EST: Lightning struck a house 2 miles east of Hays, starting a fire that burned much of the house to the ground. A truck and other equipment that was in the garage were also destroyed.

Rockingham County
3 SE Stoneville

- 06 1635EST: Thunderstorm winds downed trees 5 miles east of Danbury, onto Route 135, 3 miles southeast of Stoneville, and trees and power lines 1 mile west of Eden.

Stokes County
5 E Danbury

- 06 1645EST: Hail (0.88)

Stokes County
5 E Danbury

- 06 1645EST: Thunderstorm Wind

Rockingham County
1 W Eden

- 06 1705EST: Thunderstorms during the afternoon of the 6th produced damaging winds and hail up to nickel size.

- 06 1705EST: Thunderstorm winds downed trees and power lines in Walnut Cove, trees near Madison causing damage to a mobile home and the roof of a home, and power lines in Reidsville and Ruffin.

- 27 1530EST: Thunderstorm Wind

- 27 1554EST: Thunderstorm Wind

NORTH CAROLINA, South Coastal

NCZ087-096>097-099>101 Robeson - Bladen - Pender - Columbus - Brunswick - New Hanover

- 01 0000EST: Drought

- 01 0000EST: Drought

Bladen County
15 E Elizabethtown

- 14 1340EST: Spotter reported dime size hail.

Bladen County
4 NW East Arcadia

- 14 1340EST: Emergency manager reported dime size hail.

Bladen County
Kelly

- 14 1355EST: Thunderstorm Wind (G70)
**NORTH CAROLINA, South Coastal**

The Bladen Emergency Manager reported that strong thunderstorm winds knocked down numerous trees in the eastern part of the county along Hwy 210 and Hwy 53. One tree fell on a house on Lightwood Knot Road. Lightning also struck a home on Overline Road, seriously damaging it. A number of storage buildings were also damaged in the area.

**Pender County**
- **Burgaw**
  - Date: 14
  - Time: 1415EST
  - Person(s) Killed: 0
  - Person(s) Injured: 0
  - Damage: Trees down.
  - Weather Event: Thunderstorm Wind (G60)

**Robeson County**
- **Fairmont**
  - Date: 14
  - Time: 1830EST, 1835EST
  - Person(s) Killed: 0
  - Person(s) Injured: 0
  - Damage: 100K
  - Weather Event: Thunderstorm Wind (G70)

Robeson emergency manager reported two mobile homes were destroyed on Stone Road due to straight line winds from a thunderstorm. Several other homes were damaged on Price Road, with trees and power lines down.

**Bladen County**
- **White Oak**
  - Date: 14
  - Time: 2000EST
  - Person(s) Killed: 0
  - Person(s) Injured: 0
  - Damage: 15K
  - Weather Event: Lightning

Lightning struck the Bethlehem United Methodist Church steeple. The steeple was destroyed, and parts of the sanctuary were damaged by water, fire, and smoke.

**Columbus County**
- **5 S Nakina**
  - Date: 14
  - Time: 2035EST
  - Person(s) Killed: 0
  - Person(s) Injured: 0
  - Damage: Trees down.
  - Weather Event: Thunderstorm Wind (G60)

Columbus 911 reported trees down across the roadway.

**Brunswick County**
- **Winnabow**
  - Date: 14
  - Time: 2115EST
  - Person(s) Killed: 0
  - Person(s) Injured: 0
  - Damage: Trees down.
  - Weather Event: Thunderstorm Wind (G55)

Sheriff reported trees down.

**New Hanover County**
- **Wilmington**
  - Date: 14
  - Time: 2127EST, 2130EST
  - Person(s) Killed: 0
  - Person(s) Injured: 0
  - Damage: 15K
  - Weather Event: Thunderstorm Wind (G65)

New Hanover 911 reported that thunderstorm winds caused a building to partially collapse on Front Street. Trees were also reported down.

**New Hanover County**
- **4 N Wilmington**
  - Date: 14
  - Time: 2130EST
  - Person(s) Killed: 0
  - Person(s) Injured: 0
  - Damage: 250K
  - Weather Event: Thunderstorm Wind (G78)

National Weather Service storm survey concluded a microburst with estimated 80-90 mph winds caused widespread damage along a path approximately 1/2 mile long with a maximum width of 50 to 100 yards. Wrightsboro Elementary School sustained three broken windows. Portions of school's metal roof were peeled back or were torn off and blown 50 yards from the building. One trailer was blown off its concrete blocks. Seventeen houses sustained damage along Long Leaf Drive. Damage included shingles blown off roofs, siding torn off houses or significant damage to porches. An 18 inch diameter tree was snapped off about 20 feet above ground level, with numerous other trees uprooted. Fallen trees and limbs damaged power lines and at least 4 cars. No injuries were reported.

**NORTH CAROLINA, Southwest**

**Rowan County**
- **Kannapolis**
  - Date: 01
  - Time: 1738EST
  - Person(s) Killed: 0
  - Person(s) Injured: 0
  - Damage: 1K
  - Weather Event: Thunderstorm Wind (G50)

A large tree was blown down, knocking over other trees and some powerlines.

**Cabarrus County**
- **8 E Kannapolis to Mt Pleasant**
  - Date: 01
  - Time: 1803EST, 1820EST
  - Person(s) Killed: 0
  - Person(s) Injured: 0
  - Damage: 5K
  - Weather Event: Thunderstorm Wind (G60)

Numerous trees and powerlines were blown down along Gold Hill Rd. Fires were started by some of the downed powerlines. A tree fell on an automobile in Mt. Pleasant.

**Lincoln County**
- **Lincolnton to 5 E Lincolnton**
  - Date: 01
  - Time: 1805EST, 1810EST
  - Person(s) Killed: 0
  - Person(s) Injured: 0
  - Damage: 5K
  - Weather Event: Hail(1.00)

**Lincoln County**
- **Lincolnton to 5 E Lincolnton**
  - Date: 01
  - Time: 1805EST, 1810EST
  - Person(s) Killed: 0
  - Person(s) Injured: 0
  - Damage: 10K
  - Weather Event: Thunderstorm Wind (G55)

A large vent was blown off of a building and numerous trees were blown down. At least one tree fell on an automobile.

**Lincoln County**
- **Boger City to Iron Station**
  - Date: 01
  - Time: 1824EST
  - Person(s) Killed: 0
  - Person(s) Injured: 0
  - Damage: Hail(1.00)

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### Storm Data and Unusual Weather Phenomena

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Heavy rain caused trees to fall onto roads and also resulted in some mudslides.

Heavy rain caused trees to fall onto roads and also resulted in some mudslides.

A few trees were blown down. One tree fell on an automobile, trapping the occupants.

Some street flooding occurred, and water entered a few homes.
### Storm Data and Unusual Weather Phenomena

**June 2002**

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<td></td>
<td></td>
<td>Some trees and powerlines were blown down along Smoky Creek Road, near the Morganton-Lenoir Airport.</td>
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<td>13</td>
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<td></td>
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<tr>
<td>4 S Gamewell</td>
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<td>Measured by AWOS at the Morganton-Lenoir Airport.</td>
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<td>Saw Mills to Granite Falls</td>
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<td>Numerous trees and powerlines were blown down.</td>
</tr>
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<td>1930EST</td>
<td></td>
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<td>0</td>
<td>Hail(1.75)</td>
</tr>
<tr>
<td>Bethlehem</td>
<td></td>
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</tr>
<tr>
<td>Alexander County</td>
<td>13</td>
<td>1930EST</td>
<td>2000EST</td>
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<td>Thunderstorm Wind (G55)</td>
</tr>
<tr>
<td>Bethlehem</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Several trees were blown down. At least 2 automobiles were damaged by falling trees.</td>
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<td>Catawba County</td>
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<td>1950EST</td>
<td></td>
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<tr>
<td>Conover</td>
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<td>Some trees and powerlines were blown down.</td>
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<tr>
<td>Iredell County</td>
<td>13</td>
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<td>4 N Statesville</td>
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<td>Some trees and powerlines were blown down.</td>
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<td>20</td>
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<td>Hail(0.75)</td>
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<td>4 NW Leicester</td>
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<td>20</td>
<td>1520EST</td>
<td>1525EST</td>
<td></td>
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<td>Hail(0.75)</td>
</tr>
<tr>
<td>Cherokee to Bryson City</td>
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234
**NORTH CAROLINA, Southwest**

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<tr>
<th>Location</th>
<th>Time Local/ Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Estimated Damage Property</th>
<th>Character of Storm</th>
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<tr>
<td>Cherokee to Bryson City</td>
<td>20 1520EST 1525EST</td>
<td>0 0</td>
<td>10K</td>
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<td>Thunderstorm Wind (G55)</td>
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</tr>
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<td>10 N Franklin</td>
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<tr>
<td>2 E Robbinsville to Robbinsville</td>
<td>20 1616EST 1620EST</td>
<td>0 0</td>
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<tr>
<td>2 E Robbinsville to Robbinsville</td>
<td>20 1616EST 1620EST</td>
<td>0 0</td>
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<td>Thunderstorm Wind (G50)</td>
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<td>Macon County</td>
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<tr>
<td>2 SW Aquone</td>
<td>20 1625EST</td>
<td>0 0</td>
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<td></td>
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<tr>
<td>Vale</td>
<td>26 1800EST</td>
<td>0 0</td>
<td>150K</td>
<td></td>
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<td>Lightning</td>
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*Reported near Lake Nantahala.*

**Lightning struck a business and ignited a fire, which destroyed the building and its contents.*

**NORTH DAKOTA, Central and West**

<table>
<thead>
<tr>
<th>Location</th>
<th>Time Local/ Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Estimated Damage Property</th>
<th>Character of Storm</th>
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<tbody>
<tr>
<td>Golden Valley County</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Beach</td>
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<tr>
<td>County roads washed out and roads in the community of Beach flooded.</td>
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</tr>
<tr>
<td>Golden Valley County</td>
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<td></td>
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</tr>
<tr>
<td>6 N Sentinel Butte</td>
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<td>Hail(2.75)</td>
</tr>
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<td>Billings County</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Fairfield</td>
<td>08 1900CST</td>
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<td></td>
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<td>Hail(1.50)</td>
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<td>5 N Sentinel Butte</td>
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<td>9 NNE Beach</td>
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<td>0 0</td>
<td></td>
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<td>Hail(1.00)</td>
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<tr>
<td>Hail accumulated between 1 to 3 inches with nickel to quarter size covering the ground.</td>
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<tr>
<td>Golden Valley County</td>
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<tr>
<td>Beach</td>
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<td>Flood</td>
</tr>
<tr>
<td>County roads washed out and roads in the community of Beach flooded.</td>
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<td>Billings County</td>
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<tr>
<td>10 N Fairfield</td>
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<td>0 0</td>
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<td>Hail(1.00)</td>
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<tr>
<td>Hail drifted two (2) feet in depth.</td>
<td></td>
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<tr>
<td>Golden Valley County</td>
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<tr>
<td>County roads washed out around the Beach area.</td>
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</tr>
<tr>
<td>Billings County</td>
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<td></td>
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<td>Flood</td>
</tr>
<tr>
<td>Public reported four (4) feet of water over the road.</td>
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<td>Slope County</td>
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### Storm Data and Unusual Weather Phenomena

#### NORTH DAKOTA, Central and West

<table>
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<tr>
<th>Location</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of</th>
<th>Estimated Damage</th>
<th>Character of Storm</th>
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<tr>
<td><strong>Bowman County</strong></td>
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<td><strong>Dunn County</strong></td>
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<td>Hail(0.75)</td>
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<td>Thunderstorm Wind (G61)</td>
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<tr>
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<td>Numerous shingles off roofs and wall of barn blown over.</td>
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<td>Water reported over the county roads.</td>
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<td></td>
<td>Street flooding in the city of Dickinson due to heavy rainfall.</td>
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<td>Hail(0.88)</td>
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<td>Reported by a National Weather Service Cooperative Observer.</td>
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<td>Flood</td>
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<td></td>
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<td></td>
<td>Standing water, several inches deep, in fields and water over numerous roads. Report was 10 miles south of Manning.</td>
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<td>Camper blown over.</td>
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<td></td>
<td>Highway Patrol reported visibility reduced to near zero in very heavy rain.</td>
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<td><strong>Ward County</strong></td>
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</table>
## Storm Data and Unusual Weather Phenomena

### North Dakota, Central and West

**Mchenry County**
- **5 N Towner**
  - Date: 10
  - Time: 0425 CST
  - Character of Storm: Hail (0.88)

**Sheridan County**
- **Mcclusky**
  - Date: 10
  - Time: 0430 CST
  - Character of Storm: Hail (0.75)

**Burke County**
- **4 N Powers Lake**
  - Date: 14
  - Time: 1843 CST
  - Character of Storm: Hail (0.75)

**Mountrail County**
- **4 N Stanley**
  - Date: 14
  - Time: 1912 CST
  - Character of Storm: Hail (1.00)

- **2 N Stanley**
  - Date: 14
  - Time: 1924 CST
  - Character of Storm: Hail (1.25)

- **11 S Plaza**
  - Date: 14
  - Time: 2039 CST, 2041 CST
  - Character of Storm: Hail (0.75)

**Dunn County**
- **Killdeer**
  - Date: 16
  - Time: 1720 CST
  - Character of Storm: Lightning

**Mercer County**
- **3 SW Hazen**
  - Date: 14
  - Time: 2158 CST
  - Character of Storm: Hail (0.75)

**Oliver County**
- **6 NW Hannover**
  - Date: 14
  - Time: 2209 CST
  - Character of Storm: Hail (0.88)

**LaMoure County**
- **11 SW Edgeley**
  - Date: 15
  - Time: 0125 CST
  - Character of Storm: Lightning

**Dickey County**
- **5 W Raub**
  - Date: 22
  - Time: 0040 CST
  - Character of Storm: Lightning

**McLean County**
- **1 W Balfour**
  - Date: 22
  - Time: 0220 CST
  - Character of Storm: Hail (1.75)

- **4 S Minot**
  - Date: 22
  - Time: 0510 CST
  - Character of Storm: Hail (0.75)

**Burke County**
- **Lignite**
  - Date: 22
  - Time: 0525 CST
  - Character of Storm: Lightning

**Dickey County**
- **Ellendale**
  - Date: 22
  - Time: 1704 CST
  - Character of Storm: Hail (0.88)

- **5 N Guelph**
  - Date: 22
  - Time: 1830 CST
  - Character of Storm: Hail (0.75)

- **Ellendale**
  - Date: 22
  - Time: 1845 CST
  - Character of Storm: Hail (0.75)
NORTH DAKOTA, Central and West

Dickey County
Oakes
22 1920CST 0 0 Flood Street flooding with water running into yards.

Adams County
16 NE Hettinger
22 2115CST 0 0 Hail(0.75)

Dunn County
2 SW New Hradec
23 1420CST 0 0 Hail(1.00) Rainfall of .60 in a 20 minute period with storm.

Mckenzie County
11 S Alexander
23 1450CST 0 0 Hail(1.00)

Stark County
Taylor
23 1456CST 0 0 Hail(0.75)

Mckenzie County
11 S Alexander
23 1500CST 0 0 Hail(1.25)

Morton County
Hebron
23 1547CST 0 0 Hail(1.75) Very heavy rainfall and wind gust to 40 mph with the storm.

Morton County
10 N Glen Ullin
23 1633CST 0 0 Hail(0.75)

Burleigh County
15 SE Bismarck
23 1707CST 0 0 Hail(0.88)

Mclean County
5 N Wilton
23 1721CST 0 0 Funnel Cloud Funnel last less than a minute then retreated back into the parent cloud. Storm chaser reported a rotating wall cloud in the same location.

Burleigh County
11 N Wilton
23 1810CST 0 0 Hail(2.50) Hail covering the ground.

Burleigh County
11 N Wilton
23 1810CST 0 0 Hail(2.75) Rainfall of 1.00 fell in a 30 minute period with the storm.

Morton County
8 NW Mandan
23 1813CST 0 0 Hail(1.25)

Dunn County
7 ESE Killdeer
23 1820CST 0 0 Hail(1.00)

Kidder County
Steele
23 1832CST 0 0 Hail(0.75)

Dunn County
Halliday
23 1840CST 0 0 Hail(0.75)

Burleigh County
15 N Bismarck
23 1855CST 2 40 0 0 Tornado (F0) Briefly touched down in open county near church and several homes but no damage occurred.

Mchenry County
Velva
23 1930CST 0 0 Flood Numerous street flooding and water over many roads.

Mchenry County
5 SW Velva to 6 S Velva
23 1934CST 0 0 Tornado (F1) Several tree's uprooted and shingles blown off roof several homes.
## Storm Data and Unusual Weather Phenomena

### NORTH DAKOTA, Central and West

<table>
<thead>
<tr>
<th>Location</th>
<th>Time/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons</th>
<th>Estimated Damage Property</th>
<th>Character of Storm</th>
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<tr>
<td>Burleigh County</td>
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<td>7 SE Regan</td>
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<td>Renville County</td>
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<td>3 N Sherwood</td>
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<td>7 SW Dunseith to 5 S Dunseith</td>
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<td>Tornado formed 7 miles southwest of Dunseith and skipped east across open country lifting back into the parent cloud 5 miles south of Dunseith. No damage was reported.</td>
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<td>Thunderstorm Wind (G55)</td>
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<tr>
<td>Burnstad</td>
<td>28</td>
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<td></td>
<td>2</td>
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<tr>
<td>Two persons were injured when a large tree was toppled by the wind onto their tent. Numerous uprooted tree's with several homes receiving minor wind damage. The injuries were at a campground in Beaver State Park.</td>
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<td>Thunderstorm Wind (G57) M</td>
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<tr>
<td>Gackle</td>
<td>28</td>
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<td>Thunderstorm Wind (G61)</td>
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<tr>
<td>6 W Marion</td>
<td>28</td>
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<tr>
<td>Several farm buildings either damaged or destroyed.</td>
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<td>Grant County</td>
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<td>Wild/Forest Fire</td>
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<td>0</td>
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<tr>
<td>A large grassland fire claimed 12,300 acres in and around the Shields area in southcentral North Dakota. The entire town of Shields was burned to the ground with only a few structures remain standing. The fire was fueled by several days of temperatures above 110 degree's and wind gust up to 40 mph. The fire danger index was in the extreme category. The fire was finally contained on the morning of the 30th.</td>
<td></td>
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<tr>
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<tr>
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<tr>
<td>Crosby</td>
<td>29</td>
<td></td>
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<td>0</td>
<td></td>
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<tr>
<td>Suspension bridge destroyed and several trees uprooted.</td>
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<tr>
<td>Divide County</td>
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<td>Thunderstorm Wind (G57)</td>
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<td>Crosby</td>
<td>29</td>
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<tr>
<td>Tree's uprooted and suspension bridge destroyed.</td>
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<tr>
<td>Williams County</td>
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<td>1 W Trenton</td>
<td>29</td>
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<tr>
<td>Thunderstorm winds destroyed a grain bin.</td>
<td></td>
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<td>Mountrail County</td>
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<tr>
<td>Radio antenna blown over.</td>
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</tbody>
</table>
### NORTH DAKOTA, Central and West

- **Renville County**
  - NW Mohall: 29 June 2011 CST, 0029, Thunderstorm Wind (G52) 6 NW Mohall 2011CST M

- **Bottineau County**
  - NW Maxbass: 29 June 2011 CST, 0029, Thunderstorm Wind (G52) 7 NW Maxbass 2040CST M

- **Bottineau County**
  - Bottineau: 29 June 2011 CST, 0029, Thunderstorm Wind (G52) Bottineau 2040CST M

- **Ward County**
  - Surrey: 29 June 2011 CST, 0029, Thunderstorm Wind (G52) Surrey 2045CST M

- **Bottineau County**
  - Bottineau: 29 June 2011 CST, 0029, Thunderstorm Wind (G52) Bottineau 2040CST M

### NORTH DAKOTA, East

- **Eddy County**
  - 3 SE Sheyenne: 08 June 2011 CST, 2300CST, Hail(1.50)

- **Benson County**
  - St Michael: 08 June 2011 CST, 2310CST, Hail(1.50)

- **Grand Forks County**
  - Northwood: 08 June 2011 CST, 2315CST, Hail(1.75)

- **Ramsey County**
  - Devils Lake: 08 June 2011 CST, 2320CST, Hail(1.25)

- **Nelson County**
  - 2 S Mapes: 08 June 2011 CST, 2330CST, Hail(0.88)

- **Traill County**
  - Reynolds: 08 June 2011 CST, 2330CST, Hail(0.75)

- **Grand Forks County**
  - 4 N Northwood: 08 June 2011 CST, 2345CST, Hail(1.75)

- **Griggs County**
  - 4 N Sutton: 09 June 2011 CST, 0030CST, Hail(1.75)

- **Benson County**
  - 4 N Oberon: 09 June 2011 CST, 0100CST, Thunderstorm Wind (G61) 4 N Oberon 0100CST 0104CST

- **Griggs County**
  - Cooperstown: 09 June 2011 CST, 0110CST, Hail(0.75)

- **Grand Forks County**
  - Grand Forks: 09 June 2011 CST, 0130CST, Flash Flood

- **Grand Forks County**
  - Grand Forks: 09 June 2011 CST, 0130CST, Flash Flood

- **Grand Forks County**
  - Grand Forks: 09 June 2011 CST, 0130CST, Lightning

- **Eddy County**
  - New Rockford: 09 June 2011 CST, 0400CST, Flash Flood

#### Storm Data and Unusual Weather Phenomena

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Injured</th>
<th>Estimated Damage Property</th>
<th>Crops</th>
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<td>0</td>
<td></td>
<td></td>
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<td></td>
<td>0</td>
<td></td>
<td></td>
<td>Flash Flood</td>
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</tbody>
</table>
**NORTH DAKOTA, East**

Benson County
Minnewaukan 09  0500CST  0700CST  0  0  Flash Flood
Five inches of rain fell quickly and sent Devils Lake surging into the town of 300. A local church was surround by water.

Ramsey County
Devis Lake 09  0500CST  0700CST  0  0  Flash Flood
Roads were flooded in Devils Lake and 2 homes had partial basement collapses. The level of Devils Lake rose two-tenths of a foot.

Nelson County
Lakota 09  0700CST  0800CST  0  0  Flash Flood
Roads were flooded around Lakota.

Cass County
Fargo 09  0730CST  0930CST  0  0  Flash Flood
Many city streets were flooded by the heavy rain, especially 32nd avenue south and along 25th street south. NDSU took on water at the student union and electrical engineering buildings. Reports of stranded cars and basement flooding were received.

Cass County
Gardner 09  0905CST  0  0  Hail(0.75)
Street flooding was reported. Roads were also closed near Arvilla and Thompson.

Benson County
Minnewaukan 10  0545CST  0500CST  0  0  Hail(0.75)

Towner County
Cando 10  0550CST  0  0  Hail(1.00)

Towner County
7 NE Egeland 10  0625CST  0  0  Hail(0.75)

Cavalier County
4 N Munich 10  0630CST  0  0  Hail(0.75)

Ramsey County
2 SW Ramsey 10  0630CST  0  0  Hail(1.00)

Benson County
1 E Maddock 10  0715CST  0  0  Hail(0.75)

Benson County
Ft Totten 10  0830CST  0  0  Hail(1.00)

Ramsey County
3 S Devils Lake 10  0830CST  0  0  Hail(0.75)

Pembina County
1 S Neche 10  1025CST  1030CST  0  0  Flash Flood
Small streams were spilling out of their banks as 4 to 6 inches of rain fell.

Cavalier County
6 W Osnabrock 10  1033CST  0  0  Hail(1.00)

NDZ007
Cavalier 10  1800CST  1800CST  0  0  Flood
Heavy rainfall on the 9th and 10th produced widespread flooding. Quite a bit of cropland ended up under lakes of water. The NDAWN station at Langdon reported 3.84 inches of rain during this period, but unofficial reports of 6 to 11 inches were received.

NDZ008
Pembina 10  1900CST  1900CST  0  0  Flood
NORTH DAKOTA, East

Heavy rainfall on the 9th and 10th produced widespread flooding across Pembina county. 6 to 11 inches of rainfall was reported, with the area around Backoo getting hit the worst. The retention dam at Icelandic State Park reached maximum capacity. The NDAWN mesonet site near Cavalier reported 5.74 inches of rain during this period. The river level on the Red River remained high even toward the end of the month, as more rainfall upstream brought a prolonged period of high water levels. The Red River at Drayton remained above flood stage for about the second half of the month, while the level at Pembina held near flood stage.

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Basement flooding was reported.

Roads and fields were flooded.

Hail punched 12 holes in a fiberglass porch roof.
### Storm Data and Unusual Weather Phenomena

#### June 2002

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</table>

Several trees were blown over.
### NORTH DAKOTA, East

**Sargent County**
- **4 E Milnor**
  - Date: 25
  - Time: 1630 CST
  - Character: Hail (0.75)

**Eddy County**
- **New Rockford**
  - Date: 29
  - Time: 2008 CST
  - Character: Thunderstorm Wind

**Ramsey County**
- **Crary**
  - Date: 29
  - Time: 2110 CST
  - Character: Thunderstorm Wind (G50)

**Walsh County**
- **Lankin**
  - Date: 29
  - Time: 2220 CST
  - Character: Thunderstorm Wind

**Pembina County**
- **3 W Crystal**
  - Date: 29
  - Time: 2250 CST
  - Character: Thunderstorm Wind

**Walsh County**
- **Park River**
  - Date: 29
  - Time: 2310 CST
  - Character: Thunderstorm Wind

**Grand Forks County**
- **Grand Forks**
  - Date: 30
  - Time: 0100 CST
  - Character: Thunderstorm Wind (G63)

**Barnes County**
- **4 N Valley City**
  - Date: 30
  - Time: 0110 CST
  - Character: Thunderstorm Wind

**Barnes County**
- **2 E Pillsbury**
  - Date: 30
  - Time: 0205 CST 0215 CST
  - Character: Hail (1.00)

### O H I O, East

**Belmont County**
- **St Clairsville**
  - Date: 03
  - Time: 2345 EST
  - Character: Thunderstorm Wind

**Belmont County**
- **Morristown**
  - Date: 03
  - Time: 2347 EST
  - Character: Hail (0.75)

**Belmont County**
- **Neffs**
  - Date: 04
  - Time: 0140 EST 0500 EST
  - Character: Flood

**Muskingum County**
- **2 S Zanesville**
  - Date: 04
  - Time: 0950 EST
  - Character: Thunderstorm Wind

**Muskingum County**
- **2 NW Zanesville**
  - Date: 04
  - Time: 1319 EST
  - Character: Hail (0.75)
Several rounds of heavy thunderstorm rains produced street flooding in downtown Zanesville.

Thunderstorm winds downed a few large trees.

Thunderstorm winds downed several large trees and power lines.

Heavy thunderstorm rains produced street and roadway flooding in the Byesville area.

Thunderstorm winds downed a few large trees and power lines.

Thunderstorm winds downed several large trees and power lines.

Thunderstorm winds downed several trees and power lines.

Thunderstorm winds downed a few large trees and power lines.

Thunderstorm winds downed a few trees and power lines.

Thunderstorm winds downed several trees and power lines.

Thunderstorm winds downed a few trees and power lines.

Thunderstorm winds downed several trees and power lines, some of which fell across area roadways.

Thunderstorm winds downed several trees and power lines.

Thunderstorm winds downed a few large trees.

Several rounds of heavy thunderstorm rains produced roadway flooding across portions of southwest Muskingum County. Road closures were also reported in the Philo area.
Another round of heavy thunderstorm rains forced already-swollen creeks and streams out of their banks across the county. The Neffs and Centerville areas, already recovering from flooding earlier in the week, were again hit hard. In the Powhatan Point area, State Route 7 was closed for a period of time by mudslides.

Heavy thunderstorm rains forced creeks and streams out of their banks across the county, temporarily flooding area roadways.

Heavy thunderstorm rains produced minor roadway flooding in the Clarington area.

Heavy thunderstorm rains produced minor roadway flooding along State Route 147 in the Batesville area.

Heavy thunderstorm rains brought the Muskingum River at Coshocton over its flood stage of 13.0 feet during the late evening hours on June 6th. The river crested at 14.1 feet at around 10:00 PM on June 7th, then began to slowly recede, finally falling below flood stage at around 2:30 AM on June 9th. Only some minor roadway flooding near the river was reported during this time.

Heavy thunderstorm rains produced flooding along State Route 800 near Somerton.

Heavy thunderstorm rains produced basement and roadway flooding.

Thunderstorm winds downed several large trees.

Thunderstorm winds downed a few large trees.

Thunderstorm winds downed a large tree.

Hail (Dime size) was observed.

Hail (Dime size) was observed.
**Storm Data and Unusual Weather Phenomena**

June 2002

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
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</thead>
<tbody>
<tr>
<td><strong>OHIO, North</strong></td>
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<td>Wyandot County</td>
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<tr>
<td>Kirby</td>
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<td>0</td>
<td>2K</td>
<td>Hail(0.75)</td>
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<tr>
<td>Dime size hail was observed three miles west of Kirby.</td>
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<td>Lexington</td>
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<td>0</td>
<td>0</td>
<td>5K</td>
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<td>Dime size hail was observed east of Lexington near the intersection of Interstate 71 and State Route 13.</td>
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<tr>
<td>Crestline to Galion</td>
<td>03</td>
<td>2115EST</td>
<td>2300EST</td>
<td></td>
<td>0</td>
<td>0</td>
<td>50K</td>
<td>Flood</td>
<td></td>
</tr>
<tr>
<td>Thunderstorms dumped over three inches of rain on southeastern Crawford County. Widespread street and lowland flooding occurred resulting in many roads being closed. Up to two feet of water was reported flowing over roads in Crestline.</td>
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<td>Flood</td>
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<td>Thunderstorms dumped two to three inches of rain on the southern and western sections of Richland County. Widespread street and lowland flooding occurred. Several roads had to be closed due to flooding.</td>
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<tr>
<td>Quarter size hail was observed.</td>
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<td>Nickel size hail was reported six miles east of Republic.</td>
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<tr>
<td>Thunderstorm winds estimated at 60 mph tore the roof off of a barn six miles east of Republic.</td>
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<td>Thunderstorm winds downed several trees along US Highway 224 near Tiffin.</td>
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<td>0</td>
<td>2K</td>
<td>Hail(0.75)</td>
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<tr>
<td>Dime size hail was observed two miles northeast of Wakeman.</td>
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<tr>
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<td>Nickel size hail was observed a mile and a half north of Kipton.</td>
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<td>Hail(0.75)</td>
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<td>Dime size hail was observed.</td>
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<td>2K</td>
<td>Hail(0.75)</td>
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<td>04</td>
<td>1320EST</td>
<td>1345EST</td>
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<td>20K</td>
<td>Thunderstorm Wind</td>
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<tr>
<td>Thunderstorm winds downed many trees across the county.</td>
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<td>Macedonia</td>
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<td>1335EST</td>
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<td>15K</td>
<td>Thunderstorm Wind</td>
<td></td>
</tr>
<tr>
<td>Thunderstorm winds downed six trees.</td>
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<td>New Riegel</td>
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<td>75K</td>
<td>Lightning</td>
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<td>Lightning caused a house fire.</td>
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</tbody>
</table>

248
OHIO, North

Trumbull County
Mesopotamia 04 1350EST 0 0 5K Thunderstorm Wind
Thunderstorm winds downed two large trees.

Portage County
Atwater 04 1400EST 0 0 2K Hail(0.75)
Dime size hail was observed.

Stark County
Hartville 04 1400EST 0 0 5K Hail(0.88)
Nickel size hail was observed.

Stark County
Louisville 04 1442EST 1443EST 0 0 5K Hail(0.88)
Nickel size hail was reported.

Stark County
Louisville 04 1443EST 0 0 5K Hail(0.88)
Nickel size hail was observed.

Mahoning County
New Springfield 04 1445EST 0 0 2K Thunderstorm Wind
Thunderstorm winds downed several large tree limbs.

Stark County
Alliance 04 1452EST 0 0 10K Hail(1.00)
Quarter size hail was observed.

Stark County
Robertsville 04 1542EST 0 0 5K Hail(0.88)
Nickel size hail was reported east of Robertsville near Minerva.

Stark County
Lake Cable 04 1700EST 0 0 150K Thunderstorm Wind
Thunderstorm winds downed 30 to 40 trees and severely damaged two homes.

Stark County
Hartville 04 1705EST 0 0 2K Hail(0.75)
Dime size hail was observed.

Wayne County
Smithville 04 1708EST 0 0 2K Hail(0.75)
Dime size hail was observed.

Wayne County
Wooster 04 1712EST 0 0 10K Hail(1.00)
Quarter size hail was observed five miles north of Wooster.

Wayne County
Burton City 04 1727EST 0 0 10K Hail(1.00)
Quarter size hail was observed.

Wayne County
Burton City 04 1727EST 0 0 2K Thunderstorm Wind
Thunderstorm winds downed a large tree.

Stark County
Massillon 04 1751EST 0 0 10K Hail(1.00)
Quarter size hail was observed five miles north of Massillon.

Richland County
Lucas 04 1830EST 0 0 2K Hail(0.75)
Dime size hail was observed.

Ashland County
Jeromesville 04 1845EST 0 0 10K Hail(1.00)
Dime to quarter size hail was observed.
**Storm Data and Unusual Weather Phenomena**

**June 2002**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
</tr>
</thead>
</table>

**OHIo, North**

**Wayne County**
- **Wooster**
  - Quarter size hail was observed seven miles north of Wooster.
  
**Ashtabula County**
- **Pierpont**
  - Quarter size hail was observed.
  
**Holmes County**
- **Millersburg**
  - Thunderstorm winds downed several trees northeast of Millersburg along State Route 241.

**Holmes County**
- **Countywide**
  - Thunderstorms dumped three and one half inches of rain on Millersburg and over 5 inches of rain elsewhere in Holmes County during the evening hours of the 4th and early morning hours of the 5th. Widespread flooding occurred across the county with numerous roads and bridges washed out. Hardest hit was the south side of Millersburg where flood waters up to five feet in depth washed out sections of State Route 83 and US Highway 62 and damaged many homes and businesses. Near Killbuck, State Route 520 was washed out and a bridge over State Route 60 north of town was severely damaged. State Route 514 was damaged near Nashville and Township Road 264 was also washed out. A trained spotter measured 5.5 inches of rainfall ten miles west of Millersburg.

**Ashtabula County**
- **Pierpont**
  - Dime size hail was observed four miles north of Pierpont.

**Stark County**
- **Hartville**
  - Dime size hail was observed.

**Morrow County**
- **Mt. Gilead**
  - Quarter size hail was observed.

**Stark County**
- **North Canton to Hartville**
  - Thunderstorm winds downed a few trees in Plain and Lake Townships. A home was damaged by a tree in Lake Township west of Hartville.

**Summit County**
- **Fairlawn**
  - Lightning caused a house fire.

**Mahoning County**
- **Poland**
  - Quarter size hail was observed.

**Knox County**
- **Mt. Vernon**
  - Thunderstorm winds downed a few trees.

**Holmes County**
- **Lakeville**
  - Dime size hail was observed.
### Storm Data and Unusual Weather Phenomena

**Location** | **Date** | **Time Local/Standard** | **Path Length (Miles)** | **Path Width (Yards)** | **Number Killed** | **Number Injured** | **Estimated Damage** | **Character of Storm**
--- | --- | --- | --- | --- | --- | --- | --- | ---
**OHIO, North**

**Wayne County**
- Congress to Creston
  - 05 1526EST 1530EST
  - 0 0 10K
  - Thunderstorm Wind
  - Thunderstorm winds downed trees near Congress and Creston.

**Geauga County**
- Bainbridge to Welshfield
  - 05 1530EST
  - 0 0 10K
  - Thunderstorm Wind
  - Thunderstorm winds downed trees near Bainbridge and just north of Welshfield.

**Holmes County**
- Countywide
  - 05 1530EST
  - 0 0 35K
  - Thunderstorm Wind
  - Thunderstorm winds downed many trees near Lakeville, Millersburg and Killbuck. A home in Killbuck was damaged by a tree.

**Ashland County**
- Ashland
  - 05 1545EST
  - 0 0 25K
  - Thunderstorm Wind
  - Thunderstorm winds downed many trees. A store building was slightly damaged by flying debris.

**Stark County**
- Canton
  - 05 1548EST
  - 0 0 30K
  - Thunderstorm Wind
  - Thunderstorm winds downed several trees and large tree limbs. At least one home was damaged by a fallen tree and a second home had a chimney toppled.

**Trumbull County**
- Countywide
  - 05 1608EST 1625EST
  - 0 0 25K
  - Thunderstorm Wind
  - Thunderstorm winds downed many trees across the northern half of Trumbull County.

**Summit County**
- Richfield to Twinsburg
  - 14 1525EST
  - 0 0 5K
  - Thunderstorm Wind
  - Thunderstorm winds downed trees in Richfield and Twinsburg.

**Cuyahoga County**
- University Hgs to Solon
  - 14 1530EST 1542EST
  - 0 0 5K
  - Thunderstorm Wind
  - Thunderstorm winds downed trees in University Heights and Solon.

**Geauga County**
- Chesterland
  - 14 1550EST
  - 0 0 2K
  - Thunderstorm Wind
  - Thunderstorm winds downed one tree and a large limb.

**Huron County**
- Collins
  - 14 1550EST
  - 0 0 5K
  - Hail(0.75)
  - Dime size hail was observed.

**Portage County**
- Aurora
  - 14 1550EST
  - 0 0 2K
  - Thunderstorm Wind
  - Thunderstorm winds downed two large limbs.

**Hancock County**
- Findlay
  - 14 1555EST
  - 0 0 5K
  - Hail(0.75)
  - Dime size hail was observed.

**Erie County**
- Vermilion
  - 14 1605EST
  - 0 0 5K
  - Hail(0.75)
  - Dime size hail was observed.

**Lorain County**
- Vermilion On The Lk
  - 14 1615EST
  - 0 0 2K
  - Hail(0.75)
  - Dime size hail was observed.

**Ashtabula County**
- Orwell
  - 14 1630EST
  - 0 0 10K
  - Thunderstorm Wind
  - Thunderstorm winds downed several trees in and around Orwell.

**Trumbull County**
- Mesopotamia
  - 14 1630EST
  - 0 0 2K
  - Hail(0.75)
  - Dime size hail was observed.
OHIO, North

Sandusky County
Fremont  21 1330EST
Dime size hail was observed.

Ottawa County
Port Clinton  21 1400EST
Thunderstorm winds downed at least a dozen trees. Three of the trees damaged houses. Three cars were also damaged.

Erie County
Sandusky  21 1410EST
Dime size hail was observed.

Erie County
Sandusky  21 1410EST
Thunderstorm winds toppled two power poles.

Cuyahoga County
Cleveland  21 1420EST
Thunderstorm winds downed several trees.

Ashtabula County
Mechanicsville  21 1440EST
Thunderstorm winds downed at least five trees. Three buildings were damaged and a truck was destroyed. A grain bin was also toppled.

Erie County
Vermilion  21 1445EST
A 61 mph thunderstorm wind gust was measured.

Cuyahoga County
Cleveland  21 1500EST
Dime size hail was observed.

Lorain County
North Ridgeville  21 1528EST
Thunderstorm winds downed two trees and several large limbs.

Cuyahoga County
Valley View  21 1532EST 1537EST
Dime size hail was observed.

Cuyahoga County
Garfield Hts  21 1540EST
Dime size hail was observed.

Cuyahoga County
Garfield Hts  21 1540EST
Thunderstorm winds downed several large trees.

Geauga County
Montville  21 1558EST
Thunderstorm winds downed two trees.

Geauga County
Montville to Parkman  21 1615EST 1625EST
Thunderstorm winds downed a tree near Montville and a large limb in Parkman.

Ashtabula County
Jefferson  21 1635EST
Thunderstorm winds downed several trees in and around Jefferson.

Ashtabula County
Ashtabula Co Arpt  21 1645EST
A 66 mph thunderstorm wind gust was measured.

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Storm Data and Unusual Weather Phenomena

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
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June 2002
### OHIO, North

**Lake County**

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<th>Location</th>
<th>Date/Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage to Property</th>
<th>Character of Storm</th>
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<tbody>
<tr>
<td>Madison</td>
<td>21 1645EST</td>
<td>0</td>
<td>0</td>
<td>10K</td>
<td>25K</td>
<td>Hail(1.00)</td>
<td>Quarter size hail was observed five miles south of Madison. The hail damaged the grape crop at a vineyard.</td>
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**Trumbull County**

<table>
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<tr>
<th>Location</th>
<th>Date/Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
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<th>Estimated Damage to Property</th>
<th>Character of Storm</th>
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<tbody>
<tr>
<td>Mesopotamia</td>
<td>21 1645EST</td>
<td>0</td>
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<td>2K</td>
<td>Hail(0.75)</td>
<td></td>
<td>Dime size hail was observed.</td>
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**Wayne County**

<table>
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<th>Location</th>
<th>Date/Time</th>
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<td>Shreve</td>
<td>26 1530EST</td>
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<td>75K</td>
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<td>Thunderstorm Wind</td>
<td>Thunderstorm winds downed 20 to 30 trees one mile east of Shreve along Valley Road. At least one home was damaged by the fallen trees.</td>
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**Holmes County**

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<td>Thunderstorm Wind</td>
<td>Thunderstorm winds downed several large tree limbs near Millersburg.</td>
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**Ashtabula County**

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<th>Character of Storm</th>
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<tr>
<td>Jefferson</td>
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<td>20K</td>
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<td>Thunderstorm Wind</td>
<td>Thunderstorm winds downed a tree in Jefferson and a second tree three miles south of town. The tree to the south of town damaged a parked car.</td>
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**Stark County**

<table>
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<th>Character of Storm</th>
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<td>2K</td>
<td>Hail(0.75)</td>
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<td>Dime size was observed in Canton near Belden Village.</td>
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**Knox County**

<table>
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<td>27 1210EST</td>
<td>0</td>
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<td>8K</td>
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<td>Thunderstorm Wind</td>
<td>Thunderstorm winds downed at least three trees.</td>
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**Knox County**

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<td>Bladensburg</td>
<td>27 1250EST</td>
<td>0</td>
<td>0</td>
<td>10K</td>
<td></td>
<td>Thunderstorm Wind</td>
<td>Thunderstorm winds downed four trees.</td>
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### OHIO, Northwest

<table>
<thead>
<tr>
<th>Location</th>
<th>Date/Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage to Property</th>
<th>Character of Storm</th>
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<tbody>
<tr>
<td>Van Wert County</td>
<td>04 1755EST</td>
<td>0</td>
<td>0</td>
<td>Hail(0.75)</td>
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<tr>
<td>Van Wert County</td>
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<td>04 1807EST</td>
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<td>Hail(1.50)</td>
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<td>0</td>
<td>150K</td>
<td>Lightening</td>
<td></td>
<td>Stryker</td>
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Newspaper report of lightning striking home and entering kitchen through electrical service. Fire started in kitchen and spread through the home.

**Van Wert County**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date/Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
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<th>Character of Storm</th>
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<tr>
<td>Middle Pt</td>
<td>25 1540EST</td>
<td>0</td>
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<td>2K</td>
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<td></td>
<td>Emergency management reported several large tree limbs and power lines down. Siding was also blown off a home and a garage was damaged.</td>
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</tbody>
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**OHIO, Southeast**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date/Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
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<th>Number of Persons Injured</th>
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<th>Character of Storm</th>
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<td>02 0101EST</td>
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<tr>
<td>Perry County</td>
<td>04 1400EST</td>
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Several trees fell across roads.
OHIO, Southeast

Perry County
- 3 NE Somerset
  - Time: 1400EST
  - Path Length: 0 (Miles)
  - Path Width: 0 (Yards)
  - Number of Persons: 0
  - Number of Injured: 0
  - Estimated Damage: Hail (0.75)

- Somerset
  - Time: 1445EST
  - Path Length: 0 (Miles)
  - Path Width: 0 (Yards)
  - Number of Persons: 0
  - Number of Injured: 0
  - Estimated Damage: Hail (0.75)

- 2 SW Somerset
  - Time: 1530EST
  - Path Length: 0 (Miles)
  - Path Width: 0 (Yards)
  - Number of Persons: 0
  - Number of Injured: 0
  - Estimated Damage: Hail (0.88)

- New Lexington
  - Time: 1545EST
  - Path Length: 0 (Miles)
  - Path Width: 0 (Yards)
  - Number of Persons: 0
  - Number of Injured: 1 (K)
  - Estimated Damage: Thunderstorm Wind

- 1 N Hemlock
  - Time: 1705EST
  - Path Length: 0 (Miles)
  - Path Width: 0 (Yards)
  - Number of Persons: 0
  - Number of Injured: 0
  - Estimated Damage: Hail (0.88)

- Coalton
  - Time: 1711EST
  - Path Length: 0 (Miles)
  - Path Width: 0 (Yards)
  - Number of Persons: 0
  - Number of Injured: 0
  - Estimated Damage: Hail (0.75)

- 1 NE Chesterhill
  - Time: 1735EST
  - Path Length: 0 (Miles)
  - Path Width: 0 (Yards)
  - Number of Persons: 0
  - Number of Injured: 0
  - Estimated Damage: Hail (1.25)

- Athens County
  - Athens
    - Time: 1740EST, 1745EST
    - Path Length: 0 (Miles)
    - Path Width: 0 (Yards)
    - Number of Persons: 0
    - Number of Injured: 200 (K)
    - Estimated Damage: Thunderstorm Wind

- Meigs County
  - .5 NW Darwin
    - Time: 1740EST
    - Path Length: 0 (Miles)
    - Path Width: 0 (Yards)
    - Number of Persons: 0
    - Number of Injured: 0
    - Estimated Damage: Hail (0.88)

- Athens County
  - Athens
    - Time: 1745EST
    - Path Length: 0 (Miles)
    - Path Width: 0 (Yards)
    - Number of Persons: 0
    - Number of Injured: 0
    - Estimated Damage: Hail (1.00)

- Washington County
  - 5 NW Porterfield
    - Time: 1800EST
    - Path Length: 0 (Miles)
    - Path Width: 0 (Yards)
    - Number of Persons: 0
    - Number of Injured: 100 (K)
    - Estimated Damage: Lightning

    - An old ridgetop church on Route 3 in Decaturville burned down, after it was struck by lightning. Firefighters from 4 departments salvaged an organ and a few keepsakes of the church.

- Washington County
  - Marietta
    - Time: 1825EST, 1830EST
    - Path Length: 0 (Miles)
    - Path Width: 0 (Yards)
    - Number of Persons: 0
    - Number of Injured: 10 (K)
    - Estimated Damage: Thunderstorm Wind

    - Several trees were blown down. The lightning intensity was also intense.

- Athens County
  - 4 NW Coalville
    - Time: 1832EST
    - Path Length: 0 (Miles)
    - Path Width: 0 (Yards)
    - Number of Persons: 0
    - Number of Injured: 10 (K)
    - Estimated Damage: Hail (1.25)

- Meigs County
  - Burlingham
    - Time: 1840EST
    - Path Length: 0 (Miles)
    - Path Width: 0 (Yards)
    - Number of Persons: 0
    - Number of Injured: 2 (K)
    - Estimated Damage: Thunderstorm Wind

    - Trees and large branches were fallen.

- Gallia County
  - Gallia
    - Time: 1900EST
    - Path Length: 0 (Miles)
    - Path Width: 0 (Yards)
    - Number of Persons: 0
    - Number of Injured: 1 (K)
    - Estimated Damage: Thunderstorm Wind

    - Large trees fell across Route 233 near the Jackson County line.

- OHZ066
  - Perry
    - Time: 0900EST
    - Path Length: 0 (Miles)
    - Path Width: 0 (Yards)
    - Number of Persons: 0
    - Number of Injured: 2 (K)
    - Estimated Damage: Flood

    - A few roads were closed in Thorn Township. The sheriff’s department reported some basement flooding around Thornville.

OHIO, Southwest

Fairfield County
- 5 NE Lancaster
  - Time: 1350EST, 1353EST
  - Path Length: 0 (Miles)
  - Path Width: 0 (Yards)
  - Number of Persons: 0
  - Number of Injured: 20 (K)
  - Estimated Damage: Thunderstorm Wind (G50)
Numerous trees and power lines were blown down across the eastern part of the county. There was minor damage to siding and gutters on a few homes on Betz Road, to the west of Lancaster.

Fairfield County
Lancaster 04 1525EST 1527EST 0 0 Hail(0.75)

Hocking County
6 NW Logan 04 1620EST 1622EST 0 0 Hail(0.75)

Adams County
4 E Peebles 04 1700EST 1703EST 0 0 5K Thunderstorm Wind (G50)
Trees were knocked down on State Route 73 between Pine Gap Road and Jaybird Road.

Adams County
5 S West Union 04 1719EST 1727EST 0 0 5K Thunderstorm Wind (G50)
Several trees were downed across the southern part of the county.

Scioto County
Otway 04 1740EST 1748EST 0 0 5K Thunderstorm Wind (G50)
 Numerous trees were knocked down across the western part of the county.

Darke County
2 E Union City 05 1313EST 1314EST 0 0 5K Hail(0.75)

Darke County
2 E Union City 05 1313EST 1314EST 0 0 5K Thunderstorm Wind (G57)
Strong winds were responsible for a tree falling on a building in town, causing some minor damage.

Clark County
5 N Springfield 05 1341EST 1343EST 0 0 Hail(1,75)

Butler County
Hamilton 05 1345EST 1347EST 0 0 Hail(0.88)

Champaign County
Countywide 05 1350EST 1400EST 0 0 Thunderstorm Wind (G50)
Power lines were downed across the county.

Montgomery County
Englewood 05 1350EST 1354EST 0 0 5K Thunderstorm Wind (G50)
Trees were knocked down along Union Road, and power lines were downed along US Route 40.

Miami County
Tipp City 05 1400EST 1403EST 0 0 Hail(0.75)

Preble County
4 E Eaton 05 1400EST 1402EST 0 0 3K Thunderstorm Wind (G50)
Large tree limbs were downed with patio furniture destroyed at a residence.

Union County
Marysville 05 1415EST 1417EST 0 0 3K Thunderstorm Wind (G50)
Large limbs were downed along State Route 4. Three power poles fell along US Route 42 southeast of Marysville

Montgomery County
Huber Hgts 05 1421EST 1425EST 0 0 5K Thunderstorm Wind
Trees were knocked down throughout town, with one falling on a semitruck at the intersection of Taylorsville and Rip Rap Roads.
### Storm Data and Unusual Weather Phenomena

#### June 2002

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
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<th>Estimated Damage Crops</th>
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**Storm Data and Unusual Weather Phenomena**

**Montgomery County**

A line of severe thunderstorms developed ahead of a frontal boundary during the early afternoon across the Miami Valley. Heavy rain accompanied the storms, causing high water on roadways and minor urban flooding in the Cincinnati and Columbus metro areas. Parked vehicles were trapped in standing water for a short time in Urbana.

**OHZ056-072-077>078-081**

Thunderstorms producing heavy rain moved across portions of southwest, south central and central Ohio during the morning hours. Many locations received two to three inches of rain, causing creeks to rise out of their banks and high water on roadways.

**OHZ053-060>062>073>073**

Slow moving thunderstorms developed across south central Ohio during the late afternoon, producing locally heavy amounts of rain in a short time. Several reports of high water over roads were reported throughout Ross County into the early evening. More thunderstorms developed across the Miami Valley during the evening as a weak low pressure system moved through the Ohio Valley. High water closed several roads in the Dayton and Eaton areas. Basements were flooded on the south side of Dayton, mainly in Kettering and Miamisburg.

**Clark County**

Three to four inches of rain fell across southern Clark County as thunderstorms pushed slowly east during the late evening. A car was washed into a flooded ditch near the Springfield Airport along US 68. High water caused several road closures across the southern part of the county, with basements flooded on the south side of Springfield.

**Hamilton County**

Several trees were knocked down.

**Highland County**

There were numerous reports of high water over roadways across the south central and southwest portions of Ohio as isolated, slow moving thunderstorms moved across the area during the afternoon. The heavy rains washed out the ground underneath a house on a hillside in Westwood, leaving it on the verge of collapse.

**Mercer County**

High winds knocked down over 100 trees in the city, including twenty which were two feet in diameter or larger. There were several reports of trees falling on cars and homes producing minor damage. A woman sustained fractured ribs when a large branch struck her car during the storm. The storm also produced dime sized hail throughout town.
### Storm Data and Unusual Weather Phenomena

<table>
<thead>
<tr>
<th>Location</th>
<th>Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons</th>
<th>Character of Storm</th>
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257
OHIO, Southwest

Franklin County
1 N Reynoldsburg
27 1530EST
0 0 10K
Thunderstorm Wind (G50)
Trees were blown down just south of Port Columbus International Airport.

Licking County
2 S Utica
27 1530EST
0 0 5K
Thunderstorm Wind (G50)
Strong winds peeled siding off a house, causing minor structural damage. Trees were also blown down throughout the area.

Licking County
4 N London
27 1530EST
0 0 3K
Thunderstorm Wind (G50)
Trees were knocked down across the northern part of the county.

Madison County
Kettering
30 1600EST
0 9
Lightning
Lightning struck a tree near a home where an outdoor party was occurring. Nine people standing near the tree suffered minor injuries including burned feet. One person was held overnight at the local hospital for observation, but everyone else affected was treated and released the same evening.

OKLAHOMA, Eastern

Osage County
Burbank
04 1545CST
0 0
Thunderstorm Wind (G61)
Thunderstorm winds estimated at 70 miles an hour blew a few trees down.

Osage County
Pawhuska
04 1620CST
0 0
Hail (0.75)

Osage County
Pawhuska
04 1620CST
0 0
Thunderstorm Wind (G52)
Thunderstorm winds estimated at 60 miles an hour blew down large tree limbs.

Osage County
2 SE Okesa
04 1645CST
0 0
Thunderstorm Wind (G52)

Osage County
2 NW Okesa
04 1701CST
0 0
Hail (1.00)

Osage County
4 SE Bowring
04 1710CST
0 0
Hail (0.88)

Washington County
Bartlesville
04 1710CST
0 0 5K
Thunderstorm Wind (G61)
Thunderstorm winds estimated at 70 miles an hour blew down power lines and trees.

Washington County
Bartlesville
04 1730CST 1900CST
0 0 10K
Flash Flood
The thunderstorm which produced damaging winds moments earlier also produced a quick 1.44 inches of rain. This rain caused severe street flooding. A few cars were stranded in the flooded streets.

Nowata County
2 S Childers
04 1805CST
0 0
Thunderstorm Wind (G61)
Thunderstorm winds estimated at 70 miles an hour blew down trees.

Pittsburg County
Countywide
05 0240CST 0430CST
0 0
Flash Flood
Thunderstorms produced heavy rain during the early morning hours. McAlester reported 3.38 inches of rain. To the northeast of McAlester this heavy rain caused severe street flooding in Quinton and also caused water to flow over Highway 71 near Quinton. Near McAlester water flooded the playing fields and parking lots at the Pittsburg County Softball Complex. In addition, to the west of McAlester, State Highway 31 was temporarily closed due to high water between the Steven W. Taylor Industrial Park and Haywood.

Thunderstorms produced heavy rain during the early morning hours. Red Oak received 2.71 inches of rain. This heavy rain caused numerous county roads to be flooded in the northeast part of Latimer county.

Thunderstorms produced heavy rain during the early morning hours. Stigler received 2.86 inches of rain. This rain flooded numerous county roads in the southern part of Haskell county.

The Poteau River near Panama rose above its flood stage of 29 feet at 3 am cdt on June 6th. The river crested at 29.7 feet the same day before falling below its flood stage at 10 pm cdt that evening.

Heavy thunderstorm rains caused severe street flooding along main street in Fairfax.

Thunderstorm winds estimated at 60 miles an hour blew down large tree limbs near the intersection of 75th Street south and Mingo.

Thunderstorm winds estimated at 70 miles an hour blew down a tree.

Thunderstorm winds estimated at 60 miles an hour blew down large tree limbs.

Thunderstorm winds estimated at 60 miles an hour blew down large tree limbs.

Thunderstorm winds estimated at 60 miles an hour blew down large tree limbs.

Thunderstorm winds estimated at 60 miles an hour damaged the canopy on the north side of a gas station.

A thunderstorm produced 2.17 inches of rain at Okemah in a short time. This rain rain caused severe street flooding. A few streets on the north side of the city had to be barricaded.

<table>
<thead>
<tr>
<th>Location</th>
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<th>Time/Local/Standard</th>
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<th>Path Width (Yards)</th>
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<th>Number of Persons Injured</th>
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259
OKLAHOMA, Eastern

Thunderstorm winds estimated at 60 miles an hour damaged the top of a few trees.

OKZ058  Ottawa
13  1700CST  0  0  Flood
15  2000CST

The Neosho River near Commerce rose above its flood stage of 15 feet at 6 pm cdt on June 13th. The river crested at 17.5 feet at 1 am cdt on June 15th. The river fell below its flood stage at 9 pm cdt on the same day.

OKLAHOMA, Extreme Southeast

NONE REPORTED.

OKLAHOMA, Panhandle

Severe thunderstorms over the central Oklahoma panhandle during the evening hours produced some high winds.

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<th>Date</th>
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</table>

A severe thunderstorm with very high winds moved across the western Oklahoma panhandle during the early evening hours. The tornado remained over open country and caused no damage. The tornado path length and width were estimated. Severe thunderstorms producing large hail and an isolated tornado moved across the eastern Oklahoma panhandle during the early evening hours. No damage or injuries were reported from the tornado.

Cimarron County

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
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<tr>
<td>Goodwell</td>
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Damage was reported to out buildings.

Cimarron County

<table>
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<th>Location</th>
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Cimarron County

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</table>
OKLAHOMA, Panhandle

Severe thunderstorms containing damaging high winds and hail moved across the western and central Oklahoma panhandle during the early evening hours.

OKLAHOMA, Western, Central and Southeast

Dewey County

1 S Cestos

04 1212CST 0 0 Hail(0.75)

Beckham County

1 N Erick

04 1230CST 0 0 Hail(1.00)

Major County

Chester

04 1240CST 0 0 Hail(0.75)

Dewey County

2 S Putnam

04 1318CST 0 0 Hail(0.75)

Greer County

Willow

04 1335CST 0 0 Hail(0.75)

Kay County

2 N Blackwell

04 1400CST 0 0 Flash Flood

High water forced the closing of Bender Road and Highway 177 at Bitter Creek. One family was evacuated.

Comanche County

Lawton

04 1700CST 0 0 15K Flash Flood

High water forced the closings of the intersection of NW 14th and Andrews Road and two other intersections. One vehicle was abandoned in high water.

Oklahoma County

Oklahoma City

04 1930CST 0 0 25K Lightning

Lightning struck a house on Sage Avenue, igniting a fire that destroyed the garage.

Dewey County

Oakwood

08 1436CST 0 0 Hail(0.75)

Alfalfa County

1 SSW Cherokee

08 1610CST 0 0 Thunderstorm Wind (G51) M

Wind was measured by the Oklahoma mesonet.

Washita County

Burns Flat

08 1629CST 0 0 Hail(0.75)

Washita County

5 S Burns Flat

08 1710CST 0 0 Flash Flood

Flooding occurred at the intersection of Highway 152 and I-44.

Cleveland County

Norman

08 1820CST 0 0 Hail(0.75)

Hail was reported at the intersection of I-35 and Main St.

Cleveland County

2 NW Norman

08 1830CST 0 0 Hail(0.75)

Cleveland County

4 W Norman to 5 NW Norman

08 1830CST 0 0 50K Thunderstorm Wind

A small area of severe winds accompanied a thunderstorm across a one mile wide area from four miles west of Norman to five miles northwest of Norman. Trees were uprooted. Fences were blown over, and minor structural damage was sustained to roofs and guttering.

Caddo County

4 NNW Ft Cobb

08 1900CST 0 0 Thunderstorm Wind (G73) M

Wind was measured by the Oklahoma mesonet.

Washita County

5 SSE Corn

08 1900CST 0 0 20K Flash Flood

261
A car was forced off a bridge by fast-flowing water. Seven inches of rain was measured in the area.

Caddo County
2 SW Albert 08 1905CST 0 0 5K Thunderstorm Wind
Trees were blown down at the Fort Cobb golf course.

Caddo County
4 NNW Ft Cobb 08 1905CST 0 0 Thunderstorm Wind (G64)\textsuperscript{M}
Wind was measured by the Oklahoma mesonet.

Caddo County
Ft Cobb 08 1910CST 0 0 Hail(1.25)

Caddo County
4 NNW Ft Cobb 08 1910CST 0 0 2K Thunderstorm Wind (G57)\textsuperscript{M}
Wind was measured by the Oklahoma mesonet. Irrigation equipment was blown over, and trees were also downed.

Caddo County
6 SW Anadarko 08 1930CST 0 0 0.01K Thunderstorm Wind
Large tree limbs were downed.

Kay County
Blackwell 12 1513CST 0 0 Hail(1.00)

Kay County
Blackwell 12 1525CST 0 0 Hail(1.75)

Woods County
4 N Camp Houston 12 1535CST 0 0 Hail(0.75)

Kay County
Blackwell 12 1545CST 0 0 Hail(0.88)

Kay County
Blackwell 12 1602CST 0 0 Hail(1.75)

Kay County
7 E Blackwell 12 1617CST 0 0 Hail(0.88)

Kay County
Ponca City 12 1620CST 0 0 Hail(1.00)

Woods County
14 N Camp Houston 12 1623CST 0 0 Hail(1.75)

Kay County
Ponca City 12 1630CST 0 0 50K Lightning
Lightning struck the Conoco refinery, causing a fire.

Kay County
Ponca City 12 1653CST 0 0 Thunderstorm Wind (G52)\textsuperscript{M}

Woods County
Alva 12 1703CST 0 0 Hail(1.00)

Woodward County
13 N Mooreland 12 1714CST 0 0 Hail(0.88)

Woods County
2 S Alva 12 1725CST 0 0 Thunderstorm Wind (G60)\textsuperscript{M}
Wind was measured by the Oklahoma mesonet.

Woods County
2 S Alva 12 1730CST 0 0 Thunderstorm Wind (G61)\textsuperscript{M}
Wind was measured by the Oklahoma mesonet.

Woods County
2 S Alva 12 1735CST 0 0 Thunderstorm Wind (G64)\textsuperscript{M}
Wind was measured by the Oklahoma mesonet.
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<th>Location</th>
<th>Date</th>
<th>Time</th>
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<th>Path Width (Yards)</th>
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<th>Crops Damage</th>
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<tr>
<td>This tornado tracked about one mile, destroying a windmill and damaging trees, before dissipating.</td>
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Storm Data and Unusual Weather Phenomena

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<td>Water flowed over parts of Interstate 35.</td>
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<td></td>
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<td>1K</td>
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<td>Flag poles were downed, and an awning was damaged.</td>
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<td>Seven power poles were snapped in half. A mobile home was overturned, and a large barn was destroyed.</td>
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<td>1 SE Laverne</td>
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<td>A basketball goal was blown down.</td>
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<td>0.01K</td>
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<td>Large tree limbs were downed.</td>
</tr>
<tr>
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<tr>
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Numerous severe thunderstorms developed across north central and northwest Oklahoma during the afternoon and early evening of the 12th, before moving southward and dissipating. In addition to reports of golf ball size hail (1.75 inches in diameter) and winds to 75 mph, there were reports of flash flooding in Ponca City (Kay County) and a tornado near Catesby in northern Ellis County.

Cars were washed off of roads and into ditches.

Wind was measured by the Oklahoma mesonet.

A non-thunderstorm wind gust of 57 knots was measured four miles south of Tipton by the Oklahoma mesonet.
## Storm Data and Unusual Weather Phenomena

### Location: OKLAHOMA, Western, Central and Southeast

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<th>Location</th>
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<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
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<th>Estimated Damage Property</th>
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<td>Large tree limbs were downed.</td>
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<td>Large tree limbs were downed.</td>
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**Storm Data and Unusual Weather Phenomena**

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<th>Location</th>
<th>Time</th>
<th>Character of Storm</th>
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<tr>
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<td>3 W Gould</td>
<td>1955CST</td>
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<td>Wind measured by the Oklahoma mesonet.</td>
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<td>Kiowa County</td>
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<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>2 S Lugert</td>
<td>2000CST</td>
<td>High winds blew large trees over at Quartz Mountain State Park, about two miles south of Lugert. A man was hit by a falling tree, causing a severe concussion, a broken leg, and internal injuries.</td>
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<tr>
<td>Caddo County</td>
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<td>Thunderstorm Wind (G51)</td>
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<td>4 NE Apache</td>
<td>2005CST</td>
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<td>Minco</td>
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<td>2 W Mountain Park</td>
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<td>Lawton</td>
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<td>4 NW Rush Spgs</td>
<td>2020CST</td>
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### Storm Data and Unusual Weather Phenomena

#### June 2002

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<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Character of Storm</th>
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<tr>
<td>OKLAHOMA, Western, Central and Southeast</td>
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#### Grady County
- **4 NW Rush Spgs**
  - Date: 15th
  - Time: 2025 CST
  - Description: Wind was measured by the Oklahoma mesonet.
  - Character of Storm: Thunderstorm Wind (G53)

#### Tillman County
- **4 S Tipton**
  - Date: 15th
  - Time: 2025 CST
  - Description: Wind was measured by the Oklahoma mesonet.
  - Character of Storm: Thunderstorm Wind (G50)

#### Tillman County
- **4 S Tipton**
  - Date: 15th
  - Time: 2035 CST
  - Description: Wind was measured by the Oklahoma mesonet.
  - Character of Storm: Thunderstorm Wind (G50)

#### Tillman County
- **3 W Grandfield**
  - Date: 15th
  - Time: 2045 CST
  - Description: Wind was measured by the Oklahoma mesonet.
  - Character of Storm: Thunderstorm Wind (G62)

#### Cotton County
- **1 NW Walters**
  - Date: 15th
  - Time: 2050 CST
  - Description: Wind was measured by the Oklahoma mesonet.
  - Character of Storm: Thunderstorm Wind (G50)

#### Tillman County
- **3 W Grandfield**
  - Date: 15th
  - Time: 2050 CST
  - Description: Wind was measured by the Oklahoma mesonet.
  - Character of Storm: Thunderstorm Wind (G73)

#### Cotton County
- **1 NW Walters**
  - Date: 15th
  - Time: 2055 CST
  - Description: Wind was measured by the Oklahoma mesonet.
  - Character of Storm: Thunderstorm Wind (G59)

#### Cotton County
- **1 NW Walters**
  - Date: 15th
  - Time: 2100 CST
  - Description: Wind was measured by the Oklahoma mesonet.
  - Character of Storm: Thunderstorm Wind (G51)

#### Tillman County
- **Grandfield**
  - Date: 15th
  - Time: 2100 CST
  - Description: Part of a restaurant roof blew off.
  - Character of Storm: Thunderstorm Wind

#### Stephens County
- **Comanche**
  - Date: 15th
  - Time: 2103 CST
  - Description: Wind was measured by the Oklahoma mesonet.
  - Character of Storm: Thunderstorm Wind (G52)

#### Stephens County
- **3 S Corum**
  - Date: 15th
  - Time: 2114 CST
  - Description: Wind was measured by the Oklahoma mesonet.
  - Character of Storm: Thunderstorm Wind (G56)

#### Jefferson County
- **1 E Waurika**
  - Date: 15th
  - Time: 2130 CST
  - Description: Wind was measured by the Oklahoma mesonet.
  - Character of Storm: Thunderstorm Wind (G51)

#### Jefferson County
- **5 W Addington**
  - Date: 15th
  - Time: 2133 CST
  - Description: A line of severe thunderstorms developed near the Kansas/Oklahoma border during the late afternoon of the 15th and moved southward during the evening. High winds accompanied the line with only a few reports of hail. The most severe thunderstorms affected southwest Oklahoma and portions of western north Texas, from near Reydon and Sweetwater in Roger Mill County Oklahoma, south-southeastward through Hollis, Mangum, Altus, and Frederick in Oklahoma, and Quanah, Crowell, Benjamin, Munday, Seymour, and Archer City in Texas. Wind speeds between 80-100 mph were measured or estimated in these areas. One injury was reported at Quartz Mountain State Park, in southwest Kiowa County, when a tree fell on a man.
  - Character of Storm: Thunderstorm Wind (G52)

#### Harper County
- **8 E Selman**
  - Date: 26th
  - Time: 1418 CST
  - Description: Hail (0.75)

#### Ellis County
- **Arnett**
  - Date: 26th
  - Time: 1540 CST
  - Description: Hail (2.00)

#### Roger Mills County
- **7 SW Roll**
  - Date: 26th
  - Time: 1705 CST
  - Description: Hail (0.88)

#### Roger Mills County
- **7 SW Roll**
  - Date: 26th
  - Time: 1705 CST
  - Description: Two to three inch diameter tree limbs were also downed.
  - Character of Storm: Thunderstorm Wind (G56)

---

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OREGON, Central and East

ORZ044  Lower Columbia Basin  09 1500PST  0 0 162K High Wind
High winds toppled a sixteen foot hangar at the Lexington Airport. One plane was damaged.

Jefferson County
15 SW Culver to Culver 14 1200PST 0 0 Wild/Forest Fire
Lightning on June 13th started the Geneva Fire which burned 194 acres.

OREGON, Northwest

NONE REPORTED.

OREGON, Southeast

Baker County
10 W Dixie 23 1325PST 0 0 Flash Flood
1445PST

Malheur County
8 E Malheur City 23 1425MST 0 0 Flash Flood
1545MST

Slow-moving thunderstorms dropped very heavy rainfall over the Rye Valley area near the Baker-Malheur County line. A 150 foot long section of Dixie Creek Road was covered with over a foot of mud and a section of Rye Valley Road, near the county line, was washed out including nearby telephone lines.

Jordan Vly 24 1655MST 0 0 Hail(1.00)
1720MST

Afternoon thunderstorms fired up along the Malheur County, Oregon and Owyhee County, Idaho border. One inch diameter hail fell in Jordan Valley, Oregon, near the Idaho border.

OREGON, Southwest

ORZ029>031  Klamath Basin - Northern & Eastern Klamath County & Western Lake County - Central & Eastern Lake County 07 0525PST 0 0 Extreme Cold
08 0800PST

See below.
A Frost Warning was issued for the above zones at the above times. Reported lows ranged from 23 to 28, so the observations actually met the criteria for a Freeze Warning.

ORZ029>031  Klamath Basin - Northern & Eastern Klamath County & Western Lake County - Central & Eastern Lake County 08 0558PST 0 0 Extreme Cold
09 0800PST

See below.
A Frost Warning was issued for the above zones at the above times. Reported lows ranged from 30 to 34, so it is likely that the warning verified. No frost was reported, however.

Klamath County
Chemult 14 0815PST 0 0 Lightning
Chemult Ranger Station reported 0.5" hail, 0.50" rain, strong winds, and lots of lightning with thunderstorm that occurred on 08/13.
A Severe Thunderstorm Warning was issued for Northern Klamath county (ORZ030) at 1923 PDT on 06/13 and expired at 1949 PST on 06/13. Reports were solicited during the event and the following morning, but no verifying reports were recorded. The report above came the closest.

PACIFIC

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## Storm Data and Unusual Weather Phenomena

### June 2002

<table>
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<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
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<td>0</td>
<td>4K</td>
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270
Numerous trees were down in Williamsport. Also, the roof of a barn was blown off. One trailer was destroyed from flying debris.

Warren County
Warren

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<tr>
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<th>Time</th>
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<th>Number of Persons Injured</th>
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Heavy rains caused flash flooding in Warren County in the city of Warren. Rain caused a rock and mud slide, which closed portions of route 6 and route 62, just south of the intersection of the two roads.

Franklin County
Zullinger

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A roof was blown off of a car dealership in Zullinger.

McKean County
Kane

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<tbody>
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Trees were reported down in Kane.

Sullivan County
Laporte

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<th>Path Width (Yards)</th>
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<th>Number of Persons Injured</th>
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</thead>
<tbody>
<tr>
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Trees were reported down in Laporte.

Sullivan County
Mildred

<table>
<thead>
<tr>
<th>Date</th>
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<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
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<th>Number of Persons Injured</th>
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Trees were down in Mildred.

Cumberland County
Carlisle

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<th>Number of Persons Injured</th>
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A roof was partially ripped off of the W.G. Rice Elementary School in Carlisle. Damage affected several classrooms, including 2 computers.

Sullivan County
Dushore

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Trees were reported down in Dushore.

York County
Spring Grove

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Trees were down in Spring Grove.

Lancaster County
Lancaster

<table>
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<tr>
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Numerous trees were downed in Lancaster. Several cars were damaged from the falling trees on West King Street. On South Prince Street, moderate damage was sustained by a home due to strong winds. Another home on Maple Avenue was damaged by a falling tree. On Millersville Road, a travel-trailer was flipped over by the wind.

Lancaster County
Ephrata

<table>
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<tr>
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Trees were down in Ephrata.

Perry County
Landisburg

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Quarter sized hail was reported in Landisburg.

York County
York

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Dime sized hail was reported in York.

York County
Craley

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Trees were reported down in Craley.

Adams County
McSherrystown

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Quarter sized hail was reported in McSherrystown.

Clearfield County
4 NW Westover

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Trees were down in Harmony, 4 miles northwest of Westover.

Centre County
Bellefonte

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Thunderstorm Wind (G50)
PENNSYLVANIA, Central

Trees were down in Bellefonte.

Clearfield County
Curwensville
27 1302EST 1600EST 0 0 Flash Flood
Heavy thunderstorm rains caused flash flooding over portions of Clearfield County. Flooding began at 2:02 pm local time. Most extensive flooding was noted in the city of Curwensville, where numerous streets were closed due to flooding. Flood waters receded by 5:00 pm.

Elk County
St Marys
27 1415EST 0 0 Thunderstorm Wind (G75)
Around 100 trees were downed in St. Marys in a wooded area along State Route 1001, bordering State Game Lands #25. The area of town is known locally as Haneys Hill.

Centre County
Centre Hall
27 1505EST 0 0 Thunderstorm Wind (G50)
Trees were reported down in Centre Hall.

Potter County
Shinglehouse
27 1510EST 0 0 Thunderstorm Wind (G50)
Trees were down in Shinglehouse.

Union County
Swengel
27 1526EST 0 0 5K Thunderstorm Wind
A roof was blown off of a church in Swengel.

Franklin County
Greencastle
27 1645EST 0 0 Hail(0.75)
Penny sized hail was reported in Greencastle.

Lebanon County
Fredericksburg
27 1645EST 0 0 250K Thunderstorm Wind (G100)
Straight line winds caused damage in Lebanon County as determined by a NWS Storm Survey Team. Wind speeds were estimated between 90 and 100 mph. Damage, which occurred between 5:45 pm and 5:50 pm local time, took place in a path 3 miles wide by 4 miles long. Most of the damage occurred in the town of Fredericksburg. Hundreds of trees were downed, and hail the size of golfballs (1.75 inch) was observed. At the Farmers Pride Airport, 2 airplane hangers were damaged and 5 aircraft were destroyed.

Cumberland County
Shiremanstown
27 1645EST 0 0 Thunderstorm Wind (G62)*
Measured wind gusts of 62 mph were reported in Shiremanstown.

Adams County
Gettysburg
27 1655EST 0 0 Thunderstorm Wind (G50)
Trees were down in Gettysburg.

Union County
Mifflinburg
27 1656EST 0 0 Thunderstorm Wind (G50)
Trees were down in Mifflinburg.

Cumberland County
Newville
27 1736EST 0 0 Thunderstorm Wind (G50)
Trees were down in Newville.

PENNSYLVANIA, East

PAZ060>062-067>071 Berks - Lehigh - Northampton - Chester - Montgomery - Bucks - Delaware - Philadelphia
01 0000EST 0 0 0 Drought
Eastern Pennsylvania entered June 2002 with improving weather conditions with respect to the drought, but the drought emergency remained in effect for most of Eastern Pennsylvania with mandatory watering restrictions in place. Only Carbon and Monroe Counties were in drought watch status. The Delaware River Basin Commission, which oversees water supply throughout the Delaware River Basin declared a "drought" on December 3, 2001 when the supply of water in the New York City reservoir system dropped below a designated level for early December. The commission declared a drought emergency on December 18, 2001. Both triggered additional reductions in the amount of water released from the reservoirs into the Delaware River and the amount diverted out of the Delaware River Basin to New York City and New Jersey. Diversions to New York City dropped from 800 million gallons
PENNSYLVANIA, East

a day to 520 million gallons a day. The emergency declaration gave the commission the power to restrict the amount of water suppliers could draw from the basin. It gave the commission the authority to take water from municipal reservoirs to maintain river levels. It could also call for water releases from federal, state and privately owned reservoirs. Water from Lake Nockamixon, the F.E. Walter Reservoir and Lake Wallenpaupack could be used to maintain river levels. Releases from the F.E. Walter Dam were reduced to one-third of normal to save water. They were last used for this purpose in the 1960s. The releases help protect the riverbank and aquatic life and also prevents salt water from flowing up the Delaware River. Salt water intrusion causes corrosion problems for industries and increases water treatment costs for municipalities that depend on the river for their water supply. Maintaining river levels are also important for groundwater reserves that are recharged by the river itself. Due to a wet May, on June 1st, the salt front along the Delaware River was six miles farther downstream than its normal June position. The emergency declaration also gives the commission the power to request that utilities and other companies that use more than one million gallons of water a day to prepare contingency plans to use less water and submit the plans to the commission.

Drought conditions continued to improve during the month of June as precipitation ranged from near normal southwest of Philadelphia to well above normal from Bucks County northward. On June 14th Governor Mark Schweiker moved Bucks, Philadelphia and Montgomery Counties from drought emergency to drought warning status. On a county weighted average June monthly precipitation totals ranged from 3.3 inches in Chester County to 6.0 inches in Carbon County. Bucks County, the Lehigh Valley and the Poconos exceeded normal rainfall by at least one inch. Normal monthly precipitation is around 4.0 inches. The New York City Reservoirs which feed the Delaware River increased from 81.2 percent of capacity on June 1st to 89.9 percent of capacity on June 24th. They then dropped to 89.0 percent of capacity as of July 1st. Reservoir storage was within the normal range. Under law, the Delaware River Basin Commission drought emergency declaration could not be lifted until reservoir levels remained 40 billion gallons above the drought watch level for 30 days. The commission voted to continue the drought emergency declaration through October 2002 unless all hydrological parameters returned to normal. On June 30th the salt front on the Delaware River was about five miles farther downstream than normal. For the month streamflow on the Delaware, Schuylkill and Lehigh Rivers was above normal.

June total monthly precipitation was 4.50 inches at the Reading Regional Airport, 4.65 inches at the Lehigh Valley International Airport and 3.73 inches at the Philadelphia International Airport.

### Storm Data and Unusual Weather Phenomena

<table>
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<th>Location</th>
<th>Date</th>
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<th>Path Width (Yards)</th>
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<th>Estimated Damage to Property</th>
<th>Estimated Damage to Crops</th>
<th>Character of Storm</th>
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PENNSYLVANIA, East

A lightning strike of a transformer in Jim Thorpe knocked out power to 33 customers for one hour and a half. The rain also loosened a boulder that fell off a hill and blocked the southbound lane of U.S. Route 209 in the Packerton section of Jim Thorpe. No injuries or damages were reported.

Montgomery County

Southeast Portion

06 0600EST
2000EST
2300EST

0 0

Flash Flood

Thunderstorms with heavy rain caused stream flooding as well as poor drainage flooding in southeastern Montgomery County. Storm totals exceeded three inches in parts of this area. The worst reported flooding was in Horsham Township, Hatboro Borough and Upper Moreland Township. In Horsham, a vehicle became stuck in a flooded stream on Blair Mill Road. Hatboro police blocked several flooded roadways as did Upper Moreland police. Flood waters reached up to two homes on Mill Road in Upper Moreland. Storm totals included 3.42 inches in Whitpain Township, 1.92 inches in Wynnewood and 1.72 inches at the Willow Grove NAS. No serious injuries were reported.

Philadelphia County

Philadelphia

07 0045EST
0107EST

0 0 0 0 0

Urban/Sml Stream Fld

Runoff from the heavier rain in lower Montgomery County pushed the Wissahickon Creek briefly above flood stage in Philadelphia during the predawn hours on the 7th. The Wissahickon Creek near its mouth in Philadelphia crested at 5.02 feet at 2 a.m. EDT on the 6th. Flood stage is 5 feet and the creek was at or above flood stage from 145 a.m. through 207 a.m. EDT on the 7th.

Montgomery County

Abington

11 1745EST
0 1

Thunderstorm Wind (G57)

A microburst caused considerable tree damage in a ten block area of Abington Township. Trees as large as 90 foot elms were knocked down. About 40 homeowners reported tree damage. One motorist was injured when a tree fell on his minivan and trapped him. Several homes were damaged by downed trees. Damage was concentrated in the area bounded by Susquehanna Road, Welsh Road, Edge Hill Road and York Road. The worst damage occurred on Edge Hill Road, Rockwell Avenue, Jericho Road and Wheatsheaf Road. One tree was also uprooted in Upper Moreland Township. PECO Energy reported 6,000 of its customers lost power. All power was restored by the morning of the 12th.

Northampton County

1 W Bath to Palmer Hgts

12 1325EST
1335EST

0 0

Thunderstorm Wind (G56)

A severe thunderstorm snapped several poles and pulled down wires in College Hill Borough and East Allen, Hanover and Palmer Townships. One tree in Palmer Township was ignited by the downed wires.

Lehigh County

East Texas

12 1355EST

0 0

Thunderstorm Wind (G50)

A couple of trees were knocked down by a severe thunderstorm in lower Macungie Township.

Bucks County

Springtown

12 1408EST

0 0

Thunderstorm Wind (G50)

A severe thunderstorm pulled down large tree limbs and wires on two roadways in Springfield Township.

Chester County

Rosedale

18 1720EST

0 0

Thunderstorm Wind (G50)

A large tree and several tree limbs were pulled down by a severe thunderstorm in Kennett Township.

Montgomery County

Wynnewood

18 1750EST

0 0

Thunderstorm Wind (G52)

A severe thunderstorm pulled down three trees onto some wires in Wynnewood (Lower Merion Township).

Philadelphia County

Philadelphia

18 1815EST

0 0

Thunderstorm Wind (G50)

Several large tree limbs and wires were pulled down by a severe thunderstorm in the northeast part of Philadelphia.

Carbon County

Northwest Portion

19 1330EST
1500EST

0 0

Flash Flood

Slow moving thunderstorms with heavy rain dropped a Doppler Radar estimated three to four inches of rain within two hours across extreme northwest Carbon County. This caused poor drainage and stream flooding, particularly in Packer Township.

Montgomery County

Plymouth Vly

19 1450EST

0 0

Hail(0.75)

Philadelphia County

Roxborough

19 1510EST

0 0

Thunderstorm Wind (G50)
A severe thunderstorm dropped penny size hail in a couple of places within Philadelphia including Center City. Gusty winds also pulled wires down in the Roxborough section of the city.

Hail as large as golf balls covered the ground in Bala Cynwyd (Lower Merion Township).

Slow moving thunderstorms with heavy rain dropped a Doppler Radar estimated one to two inches of rain within two hours across parts of Philadelphia County. This caused urban and poor drainage flooding. Some of the worst reported flooding was on the Schuylkill Expressway.

A severe thunderstorm dropped dime to nickel size hail from Kennett Square northeast to Longwood Gardens in Kennett Township.

Slow moving thunderstorms with heavy rain dropped a Doppler Radar estimated three to four inches of rain within two hours across extreme southeast Chester County and adjacent locations of New Castle County Delaware. This caused poor drainage and stream flooding, particularly in Kennett Township.

The first prolonged period of heat and humidity of the season claimed the life of four people in Southeast Pennsylvania. A 9-year-old girl suffering from cerebral palsy and asthma died of heat stroke while at Sesame Place in Langhorne (Bucks County). Her body temperature was measured at 108F. The other three heat related deaths were elderly women within Philadelphia who had no air conditioning and their windows closed. In order to combat the heat, the city of Philadelphia opened their heat emergency hot lines and kept air-conditioned senior citizen centers opened late. The heat caused the Pennsylvania Turnpike near Valley Forge (Chester County) to buckle. A strong cold frontal passage during the evening of the 27th ended the hot spell.

Highest temperatures included 99 degrees in Springfield (Delaware County), 98 degrees at the Franklin Institute within Philadelphia and Green Lane (Montgomery County), 95 degrees at the Philadelphia International Airport and New Hope (Bucks County), 94 degrees in West Chester and Valley Forge (Chester County) and Perkasie (Bucks County) and 93 degrees in Pottstown (Montgomery County). F9OU, F86PH, F76PH, F75PH

A severe thunderstorm caused considerable tree damage from Hilltown Township south along the Bucks/Montgomery County line to Bensalem Township. About 15,000 PECO Energy customers lost power in Bucks and Montgomery Counties because of the wind and the lightning. About 1,600 cloud-to-ground lightning strikes occurred in their service area between 3 p.m. and 9 p.m. EDT. The worst wind damage occurred in Hilltown and New Britain Townships where dozens of trees were knocked down. In Hilltown Township, Upper Stump Road was hit the hardest. In New Britain Township, a fallen large tree crushed the studio of a home. Several roads were closed by fallen trees including State Route 152. In Chalfont Borough, downed trees blocked Main Street for hours. A few trees were knocked down in Doylestown. In Upper Southampton Township, a downed tree damaged one house. In Lower Southampton Township in Feasterville, a fallen tree knocked over a chimney. Two people were also trapped in their vehicle by a downed tree, but were not harmed. Wind damage extended into Bensalem Township where some wires were pulled down.

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<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
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</table>
A severe thunderstorm pulled down large tree limbs and wires along Byberry Road in Lower Moreland Township. PECO Energy reported about 15,000 of its customers lost power in Montgomery and Bucks Counties.

A severe thunderstorm pulled down three trees on the same block in Northeast Philadelphia.

Golf ball size hail fell on Interstate 380 near the Monroe/Lackawanna County border. The same thunderstorm knocked down trees, tree limbs and power lines in Blakeslee and Tobyhanna.

A series of thunderstorms with very heavy rain caused flooding along some of the smaller creeks in Carbon and Monroe Counties. Adjusted Doppler Radar Storm Total Estimates indicated between 5 and 6 inches of rain fell in parts of northeastern Carbon County and between 4 and 5 inches of rain fell across parts of the northern half of Monroe County, mainly to the north of Interstate 80. An automated gage on the Tobyhanna Creek in Blakeslee along the Monroe/Carbon County line recorded 5.23 inches of rain within four hours. Pennsylvania State Route 115 near the creek was flooded. No serious injuries or damage was reported.

A severe thunderstorm knocked over trees in Tunkhannock Township.

A severe thunderstorm dropped nickel size hail in Pocono Summit and downed trees, tree limbs and power lines from Mount Pocono east through Skytop and Cresco.

A severe thunderstorm tore down a few trees in Marlborough Township.

A severe thunderstorm tore down several wires and large tree limbs in Milford Township.

A severe thunderstorm tore down several wires and large tree limbs in the northeast part of Berks County.

A severe thunderstorm tore down several trees in Lower Milford Township. Pennsylvania Power and Light (PPL) reported about 9,000 of its customers lost power in the Lehigh Valley.

A severe thunderstorm tore down several trees in Lower Milford Township. Pennsylvania Power and Light (PPL) reported about 9,000 of its customers lost power in the Lehigh Valley.
A severe thunderstorm pulled down trees in Lehigh and Moore Townships.

Severe thunderstorms knocked over trees and wires across the southern half of Lehigh County. The worst wind damage was reported in Upper Macungie and Upper Saucon Townships. In Upper Macungie Township, numerous trees and wires were knocked down near the intersection of Interstate 78 and Pennsylvania State Route 100. Pennsylvania Power and Light reported about 7,300 of its customers in its service area (including the Lehigh Valley) lost power because of the thunderstorms.

A severe thunderstorm tore down power lines and large tree limbs in Springfield and Bridgeton Townships. Pennsylvania Power and Light reported about 7,300 of its customers in its service area (including upper Bucks County) lost power because of the thunderstorms.

A severe thunderstorm knocked over numerous trees and wires across the southern part of Northampton County from Hellertown east through Lower Saucon Township, Bethlehem Township and Easton. A huge tree was knocked down in Easton and blocked one intersection. Pennsylvania Power and Light reported about 7,300 of its customers in its service area (including the Lehigh Valley) lost power because of the thunderstorms. In addition, Metropolitan Edison reported about 2,000 of its customers lost power in Northampton County including Easton.

A lightning bolt struck a transfer switch on a building on Washington Street in Easton and caused an electrical fire. No major damage or injuries were reported.

In addition to the wind, thunderstorms brought very heavy rain and caused some flooding, especially in the eastern part of the county. Pennsylvania State Route 248 was flooded as was a half mile stretch of Pennsylvania State Route 611 in Williams Township. A mudslide pushed mud into the driveways and basements of a few township homes near Route 611 in the township. A SKYWARN Spotter in Williams Township measured 3.07 inches of rain. In Bath, 2.30 inches of rain fell. In both places most of the rain fell within one hour.

A line of severe thunderstorms knocked down several trees and wires throughout Berks County, hitting the western part of the county the hardest. Numerous trees were knocked down in the Eagles Peak Campground area. A few homes and garages were damaged by fallen trees in Bethel and Upper Tulpehocken Townships. No serious injuries were reported.

An F0 (on the Fujita Scale) tornado touched down in a corn field in Stouchsburg in Marion Township. The tornado appeared embedded within a broader area of straight-line wind damage which affected the township and Berks County. The path length was about one-quarter of a mile and the path width was about 30 yards. Other than the corn, no other damage or injuries was reported.

A severe thunderstorm knocked down several trees and caused interruptions to phone and power services in East Penn Township.

A severe thunderstorm tore down large tree limbs and power lines in Bath and Nazareth. Pennsylvania Power and Light reported about 7,300 of its customers in its service area (including the Lehigh Valley) lost power because of the thunderstorms. In addition, Metropolitan Edison reported about 2,000 of its customers lost power in Northampton County including Bath and Nazareth.

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</table>
A line of severe thunderstorms knocked down trees, wires and large tree limbs in Bucks County. PECO Energy reported about 9,000 of its customers lost power in the county. It was about half of the outages reported in their entire service area. A SKYWARN Spotter in Chalfont measured a peak wind gust of 66 mph.

A line of severe thunderstorms produced damaging winds in the southeast part of Chester County. Trees and wires were knocked down in West Chester and New Garden Township. PECO Energy reported about 20,000 of its customers lost power because of the thunderstorms in their southeastern Pennsylvania service area including Chester County.

A severe thunderstorm knocked down trees and wires in and around East Norriton Township. PECO Energy reported about 6,000 of its customers lost power in Montgomery County.

A severe thunderstorm knocked down trees and wires in Germantown and South Philadelphia. PECO Energy reported about 20,000 of its customers lost power because of the severe thunderstorms in southeastern Pennsylvania, including Philadelphia.

Thunderstorms with heavy rain dropped about an inch of rain in one hour in Philadelphia. The heavy rain caused the Frankford Creek to briefly crest above flood stage. The creek's Castor Avenue gage was above its 7 foot flood stage from 906 p.m. EDT to 922 p.m. EDT and crested at 7.67 feet at 915 p.m. EDT. The storm total at the Franklin Institute was 1.03 inches. No injuries or damage were reported.

Dozens of trees downed from strong thunderstorm winds in the town of Athens. The damage occurred in the area of Mile Lane Road, Mill's Pride, and the airport. There was also numerous power outages.

A lightning strike to the Hazleton City Hall building disabled all but the police department phones plus three other phones. Almost all of the phone system in the building will have to be rebuilt. A second lightning strike moments later took out the traffic light at the intersection of Church and Green Streets.

Several trees and power wires down in Lackawaxen. In nearby Shohola, dozens of trees were downed. These trees took down lines. The lines and trees blocked three major roads leading out of town. These roads were State Route 434, Twin Lakes Road, and Lackawaxen Roads. A state of emergency was declared in Shohola. Power was not restored for everyone in the area until 6 AM EST.

Localized heavy thunderstorm rains caused numerous road washouts in the town of Shohola. A state of emergency was declared in the town due to the washouts and also to trees and wires blocking the roads.

### Storm Data and Unusual Weather Phenomena

<table>
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<th>Location</th>
<th>Date</th>
<th>Time/Standard</th>
<th>Path Length (Miles)</th>
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A line of severe thunderstorms knocked down trees, wires and large tree limbs in Bucks County. PECO Energy reported about 9,000 of its customers lost power in the county. It was about half of the outages reported in their entire service area. A SKYWARN Spotter in Chalfont measured a peak wind gust of 66 mph.

| Chester County      | 27         | 1855EST       | 0                   | 0                  |                          | Thunderstorm Wind (G52)  |
|                     |            |               |                     |                    |                          |         |                          |       |                          |

A line of severe thunderstorms produced damaging winds in the southeast part of Chester County. Trees and wires were knocked down in West Chester and New Garden Township. PECO Energy reported about 20,000 of its customers lost power because of the thunderstorms in their southeastern Pennsylvania service area including Chester County.

| Montgomery County   | 27         | 1900EST       | 0                   | 0                  |                          | Thunderstorm Wind (G52)  |
|                     |            |               |                     |                    |                          |         |                          |       |                          |

A severe thunderstorm knocked down trees and wires in and around East Norriton Township. PECO Energy reported about 6,000 of its customers lost power in Montgomery County.

| Philadelphia County | 27         | 1925EST       | 0                   | 0                  |                          | Thunderstorm Wind (G52)  |
|                     |            | 1930EST       |                     |                    |                          |         |                          |       |                          |

A severe thunderstorm knocked down trees and wires in Germantown and South Philadelphia. PECO Energy reported about 20,000 of its customers lost power because of the severe thunderstorms in southeastern Pennsylvania, including Philadelphia.

| Philadelphia County | 27         | 2006EST       | 0                   | 0                  |                          | Urban/Sml Stream Fld      |
|                     |            | 2022EST       |                     |                    |                          |         |                          |       |                          |

Thunderstorms with heavy rain dropped about an inch of rain in one hour in Philadelphia. The heavy rain caused the Frankford Creek to briefly crest above flood stage. The creek's Castor Avenue gage was above its 7 foot flood stage from 906 p.m. EDT to 922 p.m. EDT and crested at 7.67 feet at 915 p.m. EDT. The storm total at the Franklin Institute was 1.03 inches. No injuries or damage were reported.

| **Pennsylvania, Northeast**                     | | | | | | |
| **Bradford County**                            | | | | | | |
| Athens                                         | 05         | 1810EST       | 0                   | 0                  | 10K                      | Thunderstorm Wind (G50)  |

Dozens of trees downed from strong thunderstorm winds in the town of Athens. The damage occurred in the area of Mile Lane Road, Mill's Pride, and the airport. There was also numerous power outages.

| Luzerne County                                 | 17         | 1830EST       | 0                   | 0                  | 11K                      | Lightning                |
|                                               |            | 1852EST       |                     |                    |                          |                         |       |                          |

A lightning strike to the Hazleton City Hall building disabled all but the police department phones plus three other phones. Almost all of the phone system in the building will have to be rebuilt. A second lightning strike moments later took out the traffic light at the intersection of Church and Green Streets.

| Pike County                                    | 26         | 1255EST       | 0                   | 0                  | 50K                      | Thunderstorm Wind (G60)  |
|                                               |            | 1310EST       |                     |                    |                          |                         |       |                          |

Several trees and power wires down in Lackawaxen. In nearby Shohola, dozens of trees were downed. These trees took down lines. The lines and trees blocked three major roads leading out of town. These roads were State Route 434, Twin Lakes Road, and Lackawaxen Roads. A state of emergency was declared in Shohola. Power was not restored for everyone in the area until 6 AM EST.

| Pike County                                    | 26         | 1300EST       | 0                   | 0                  |                          | Hall(0.75)               |
|                                               |            |               |                     |                    |                          |                         |       |                          |

| Pike County                                    | 26         | 1300EST       | 0                   | 0                  | 70K                      | Flash Flood              |
|                                               |            | 1500EST       |                     |                    |                          |                         |       |                          |

Localized heavy thunderstorm rains caused numerous road washouts in the town of Shohola. A state of emergency was declared in the town due to the washouts and also to trees and wires blocking the roads.
PENNSYLVANIA, Northwest

Crawford County
Crossingville  04  1500EST  0  0  2K  Hail(0.75)
Dime size hail was observed five miles east of Crossingville.

Crawford County
Corry  04  1530EST  0  0  2K  Hail(0.75)
Dime size hail was observed.

Crawford County
Union City  04  1530EST  0  0  2K  Hail(0.75)
Dime size hail was observed.

Crawford County
Cambridge Spgs  04  2245EST  0  0  10K  Thunderstorm Wind
Thunderstorm winds downed several trees.

Erie County
Union City  04  1530EST  0  0  2K  Hail(0.75)
Dime size hail was observed.

Crawford County
Linesville  05  1530EST  0.2  200  0  0  50K  Tornado (F1)
A F1 tornado briefly touched down two miles northeast of Linesville. The tornado had a damage path nearly a quarter mile in length and 200 yards in width. No structural damage occurred, but dozens of trees were toppled.

Crawford County
Countywide  05  1535EST  0  0  100K  Thunderstorm Wind
Thunderstorm winds downed dozens of trees across the county. A few of the hardest hit towns include Centerville, Linesville, Cochranton and Conneaut Lake.

Erie County
Albion  05  1545EST  0  0  10K  Thunderstorm Wind
Thunderstorm winds downed a few trees.

Crawford County
Conneautville  05  1550EST  0  0  25K  Thunderstorm Wind
Thunderstorm winds downed a large number of trees southwest of Conneautville near the intersection of West Center Road and Linesville-Conneautville Road.

Crawford County
Conneaut Lake  05  1615EST  0  0  60K  Thunderstorm Wind
Thunderstorm winds overturned and destroyed a mobile home just south of Conneaut Lake. Eight trees nearby were also blown down.

Dime size hail was observed southwest of Spartansburg.

Crawford County
Cambridge Spgs  14  1710EST  0  0  2K  Hail(0.75)
Dime size hail was observed.

Erie County
Union City  14  1735EST  0  0  5K  Thunderstorm Wind
Thunderstorm winds downed two trees.

Erie County
Harborscreek  27  1230EST  0  0  2K  Thunderstorm Wind
Thunderstorm winds downed several large tree limbs.

PENNSYLVANIA, West

Beaver County
Rochester  04  1550EST  0  0  2K  Hail(0.75)
Thunderstorm winds downed a large tree onto a swimming pool. Several other reports of downed trees were also received by law enforcement officials around the New Brighton area.
## Storm Data and Unusual Weather Phenomena

### June 2002

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

**PENNSYLVANIA, West**

- **Butler County**
  - **Criders Corners**
    - 04 1615EST
      - Hail(0.75)
  - **New Castle**
    - 05 1520EST
      - Hail(0.88)
  - **North Vandergrift**
    - 05 1525EST
      - 2K Thunderstorm Wind
      - Thunderstorm winds downed a few trees and power lines.
  - **Rimersburg**
    - 05 1550EST
      - Hail(0.75)
  - **Slippery Rock**
    - 05 1600EST
      - Hail(0.75)
  - **Worthville**
    - 05 1615EST
      - Hail(0.75)
  - **Greenville**
    - 05 1631EST
      - 5K Thunderstorm Wind
      - Thunderstorm winds downed several large trees.
  - **Countywide**
    - 05 1640EST 1650EST
      - 10K Thunderstorm Wind
      - Thunderstorm winds downed numerous trees and power lines across the county.
  - **Anita**
    - 05 1645EST
      - 5K Thunderstorm Wind
      - Thunderstorm winds downed several trees and power lines.
  - **Bradys Bend**
    - 05 1745EST
      - 5K Thunderstorm Wind
      - Thunderstorm winds downed several large trees and power lines.
  - **5 N Evans City**
    - 05 1800EST
      - 2K Thunderstorm Wind
      - Thunderstorm winds downed a few trees.
  - **Beaver Falls**
    - 05 1815EST
      - 5K Thunderstorm Wind
      - Thunderstorm winds downed several trees.
  - **Wexford**
    - 05 1825EST
      - 2K Thunderstorm Wind
      - Thunderstorm winds downed a few large trees.
  - **Big Run**
    - 05 1830EST
      - 5K Thunderstorm Wind
      - Thunderstorm winds downed several trees and power lines.
  - **South Portion**
    - 05 1905EST 1930EST
      - 200K Flood
      - After several days of heavy thunderstorm rains had already soaked the ground, a thunderstorm which deposited between two and four inches of rainfall in two hours produced flooding across southern sections of Jefferson County. Hardest hit were the Anita and Worthville areas, where several homes were flooded. Just northwest of Worthville, Tarkin Run overflowed its banks and flooded State Route 3003, where a large truck was stranded in water up to the tops of its wheels. Several other roadways in southern Jefferson County were closed due to flooding. Home and basement flooding were also reported in Reynoldsdale and Punxsutawney.
  - **Graysville**
    - 06 1245EST 1530EST
      - 10K Flood
      - Lightning struck and injured a family of 5 people (2 adults, 3 children) camping in a tent. All were taken to the hospital, where they were treated for their injuries.

**Westmoreland County**

- **Salina**
  - 05 2000EST
    - Lightning
    - Lightning struck and injured a family of 5 people (2 adults, 3 children) camping in a tent. All were taken to the hospital, where they were treated for their injuries.

**Greene County**

- **Graysville**
  - 06 1245EST 1530EST
    - Flood
    - Lightning struck and injured a family of 5 people (2 adults, 3 children) camping in a tent. All were taken to the hospital, where they were treated for their injuries.
PENNSYLVANIA, West

Greene County
Graysville  06  1245EST  1530EST  0  0  10K  Flood
Heavy thunderstorm rains forced Gray's Fork out of its banks, flooding portions of State Highway 21 in the Graysville area. Minor flooding was also reported in the Rogersville area.

Fayette County
Indian Head  13  1135EST  1430EST  0  0  20K  Flood
Between 2.0 and 2.5 inches of rain in just over an hour produced stream and basement flooding in the Indian Head area.

Washington County
Charleroi  13  1220EST  1530EST  0  0  3M  Flood
Thunderstorms produced up to 2.5 inches of rain in only a few hours, which fell onto ground that was already soaked from previous rainfall. This torrential rainfall forced the already-swollen Maple Creek out of its banks, producing significant flooding across the far eastern sections of Washington County. The flooding was the worst residents had seen in recent years, with the most of the damage found in a two-mile stretch from Charleroi, running west along Maple Creek Road and into Fallowfield Township. Some scattered reports of flooding on the outskirts of nearby California were also received by emergency management officials. The hardest hit areas were reportedly along Twilight Hollow Road and Lincoln Avenue Extension (Old Route 71). Overall, a total of 40 homes, 10 businesses and several roads and bridges suffered approximately $3 million in damages.

Greene County
Waynesburg  13  1318EST  1600EST  0  0  Flood
Heavy thunderstorm rains produced roadway flooding in the Waynesburg area.

Indiana County
Blairsville  13  1320EST  1530EST  0  0  Flood
Heavy thunderstorm rains produced roadway flooding in the Blairsville and Clymer areas.

Indiana County
Homer City  14  0815EST  1100EST  0  0  50K  Flood
Heavy thunderstorm rains falling on already-soaked ground produced street and basement flooding in Homer City and across Center Township. Area fire departments received a total of 17 calls to pump out basements. Roadway flooding was reported along Route 553 near Penn Run and U.S. Route 119 in Burrell Township.

Allegheny County
Penn Hills  14  1902EST  0  0  Hall(0.75)

Allegheny County
East Mc Keesport  27  1310EST  0  0  Hall(0.75)

Washington County
Hickory  27  1315EST  0  0  2K  Thunderstorm Wind
Thunderstorm winds downed a few large trees.

Westmoreland County
Jeanette  27  1320EST  0  0  1K  Thunderstorm Wind
Thunderstorm winds blew out several windows in area homes.

Westmoreland County
Turkeytown  27  1320EST  0  0  5K  Thunderstorm Wind
Thunderstorm winds downed several trees and power lines.

Westmoreland County
Harrison City  27  1334EST  0  0  5K  Thunderstorm Wind
Thunderstorm winds downed several trees and power lines.

Westmoreland County
Greensburg  27  1340EST  0  0  5K  Thunderstorm Wind
Thunderstorm winds damaged signs from local businesses and downed several large tree limbs.

Washington County
Centerville  27  1510EST  0  0  5K  Thunderstorm Wind
Thunderstorm winds downed several large trees.
PENNYSYLVANIA, West

Allegheny County
Pittsburgh

Thunderstorm winds downed several trees in and around the Pittsburgh area.

PUERTO RICO

Ponce And Vicinity

Countywide

Flood

Southeast

Countywide

A surface trough was located across the local region producing a south and moist wind flow. Numerous showers and thunderstorms persisted over the south sections of Puerto Rico for most of the day causing landslides and flooded roads. Hundreds of residents in the coastal sectors in Juana Diaz were evacuated as the floodgates were opened north of the town. A landslide blocked traffic in Juana Diaz and another landslide in Guayanilla caused a tree to topple over electric lines. In Ponce, a water canal overflowed its banks flooding a major highway.

Mayaguez And Vicinity

Moca

Tstm Wind/Hail

Northwest

Aguadilla

Tstm Wind/Hail

Mayaguez And Vicinity

Moca

Tstm Wind/Hail

North Central

Manati

Tstm Wind/Hail

Western Interior

San Sebastian

Tstm Wind/Hail

RHODE ISLAND

Washington County
Hopkinton

Thunderstorm Wind (G50)

Kent County
Coventry

Hail (0.75)

An isolated severe thunderstorm produced dime sized hail in Coventry, near Johnson's Pond, and lasted for about two minutes.

Providence County
Scituate

Thunderstorm Wind (G50)

Providence County
West Glocester

Lightning

A severe thunderstorm downed large branches and wires in Scituate. In West Glocester, a lifeguard was struck by lightning as the storms moved through, and was treated for minor injuries at a local hospital.
### SOUTH CAROLINA, Central

**Barnwell County**
- **Kline**
  - Time: 03 1731EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: Hail(0.88)
  - Character of Storm: Hail
    - Emergency manager reported nickel size hail in Kline. Some street flooding as well.

**Aiken County**
- **Aiken to Jackson**
  - Time: 06 1820EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: Thunderstorm Wind (G50)
  - Character of Storm: Thunderstorm Wind
    - Sheriff reported large limbs and powerlines down in Jackson and Aiken.

**Bamberg County**
- **Countywide**
  - Time: 06 1945EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: Thunderstorm Wind (G60)
  - Character of Storm: Thunderstorm Wind
    - State Highway Patrol reported "numerous trees down countywide". Most of them were along roads and in fields.

**Sumter County**
- **Rembert**
  - Time: 06 2130EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: Thunderstorm Wind (G50)
  - Character of Storm: Thunderstorm Wind
    - Utility company reported large limbs and powerlines down in Rembert.

**Sumter County**
- **Dalzell to Sumter Muni Arpt**
  - Time: 06 2200EST 2210EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: Thunderstorm Wind (G50)
  - Character of Storm: Thunderstorm Wind
    - Utility company reported a few trees and powerlines down from Dalzell to the Municipal Airport.

**Orangeburg County**
- **Orangeburg**
  - Time: 29 1215EST 1245EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: Thunderstorm Wind (G65)
  - Character of Storm: Thunderstorm Wind
    - Sheriff reported numerous trees down in Orangeburg.

**Orangeburg County**
- **Orangeburg**
  - Time: 29 1230EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 2K
  - Estimated Damage: Thunderstorm Wind (G65)
  - Character of Storm: Thunderstorm Wind
    - Newspaper reported part of the cinder brick wall of the stands at the football stadium were blown down.

### SOUTH CAROLINA, North Coastal

**SCZ017-023>024-032>034- Marlboro - Darlington - Dillon - Florence - Marion - Horry - Williamsburg - Georgetown 039-046**
- **Georgetown County**
  - **Murrells Inlet**
    - Time: 01 0000EST
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Drought
    - Character of Storm: Drought
      - Trained spotter estimated 60 mph wind gust.

**Horry County**
- **Socastee**
  - Time: 14 1440EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: Thunderstorm Wind (G52)
  - Character of Storm: Thunderstorm Wind
    - Horry county 911 reported trees and power lines down.

**Horry County**
- **Loris**
  - Time: 14 2015EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: Thunderstorm Wind (G60)
  - Character of Storm: Thunderstorm Wind
    - Spotter reported a large pine tree down.

**Georgetown County**
- **North Santee**
  - Time: 28 1645EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: Thunderstorm Wind (G55)
  - Character of Storm: Thunderstorm Wind
    - Trees down.

### SOUTH CAROLINA, Northwest

**Greenville County**
- **3 SE Taylors**
  - Time: 04 1822EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: Hail(0.75)
  - Character of Storm: Hail

**Anderson County**
- **2 NW Piedmont**
  - Time: 04 1825EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 3K
  - Number of Persons Injured: 0
  - Estimated Damage: Hail(1.00)
  - Character of Storm: Hail

**Anderson County**
- **2 NW Piedmont**
  - Time: 04 1825EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 3K
  - Number of Persons Injured: 0
  - Estimated Damage: Thunderstorm Wind (G55)
  - Character of Storm: Thunderstorm Wind

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283
Numerous trees and powerlines were blown down.

**SOUTH CAROLINA, Northwest**

- **Pickens County**
  - **2 S Easley**
    - Time: 04 1900EST
    - Path: 0
    - Width: 0
    - Number of: 0
    - Persons: 0
    - Damage: 1K
    - Storm: Thunderstorm Wind (G50)
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Property: 1K
    - Storm Character: Trees and powerlines were blown down.

- **Greenville County**
  - **Berea to 7 NW Greer**
    - Time: 04 1910EST
    - Path: 0
    - Width: 0
    - Number of: 0
    - Persons: 0
    - Damage: 3K
    - Storm: Thunderstorm Wind (G50)
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Property: 3K
    - Storm Character: Trees and powerlines were blown down from Berea to Paris Mountain to the Lake Robinson area.

- **Spartanburg County**
  - **5 S Gravl Sprtnbrg Arpt**
    - Time: 04 2010EST
    - Path: 0
    - Width: 0
    - Number of: 0
    - Persons: 0
    - Damage: 5K
    - Storm: Thunderstorm Wind (G60)
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Property: 5K
    - Storm Character: Some sheet metal was blown off of 4 hangars at Flight World Airpark. Several trees were also blown down.

- **Spartanburg County**
  - **2 W Spartanburg**
    - Time: 04 2045EST
    - Path: 0
    - Width: 0
    - Number of: 0
    - Persons: 0
    - Damage: 0
    - Storm: Thunderstorm Wind (G50)
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Property: 0
    - Storm Character: Some trees were blown down.

- **Oconee County**
  - **Westminster**
    - Time: 04 2100EST
    - Path: 0
    - Width: 0
    - Number of: 0
    - Persons: 0
    - Damage: 0
    - Storm: Hail(1.50)
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Property: 0
    - Storm Character: Some trees were blown down.

- **Oconee County**
  - **2 N Walhalla**
    - Time: 04 2125EST
    - Path: 0
    - Width: 0
    - Number of: 0
    - Persons: 0
    - Damage: 0
    - Storm: Thunderstorm Wind (G50)
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Property: 0
    - Storm Character: Some trees were blown down along Highway 11.

- **Spartanburg County**
  - **Drayton**
    - Time: 04 2130EST
    - Path: 0
    - Width: 0
    - Number of: 0
    - Persons: 0
    - Damage: 0
    - Storm: Thunderstorm Wind (G50)
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Property: 0
    - Storm Character: A few trees were blown down.

- **Cherokee County**
  - **7 W Gaffney**
    - Time: 04 2145EST
    - Path: 0
    - Width: 0
    - Number of: 0
    - Persons: 0
    - Damage: 0
    - Storm: Thunderstorm Wind (G50)
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Property: 0
    - Storm Character: Some powerlines were blown down.

- **Anderson County**
  - **3 NW Anderson**
    - Time: 04 2335EST
    - Path: 0
    - Width: 0
    - Number of: 0
    - Persons: 0
    - Damage: 0
    - Storm: Thunderstorm Wind (G58)
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Property: 0
    - Storm Character: Some powerlines were blown down.

- **Greenwood County**
  - **Greenwood**
    - Time: 05 0005EST
    - Path: 0
    - Width: 0
    - Number of: 0
    - Persons: 0
    - Damage: 0
    - Storm: Hail(1.25)
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Property: 0
    - Storm Character: Some minor tree damage was reported.

- **Greenville County**
  - **5 E Simpsonville**
    - Time: 05 0015EST
    - Path: 0
    - Width: 0
    - Number of: 0
    - Persons: 0
    - Damage: 0
    - Storm: Thunderstorm Wind (G50)
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Property: 0
    - Storm Character: Some minor tree damage was reported.

- **Cherokee County**
  - **Gaffney**
    - Time: 06 1750EST
    - Path: 0
    - Width: 0
    - Number of: 0
    - Persons: 0
    - Damage: 0
    - Storm: Thunderstorm Wind (G50)
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Property: 0
    - Storm Character: A few trees were blown down.

- **Cherokee County**
  - **4 SE Blacksburg**
    - Time: 06 1805EST
    - Path: 0
    - Width: 0
    - Number of: 0
    - Persons: 0
    - Damage: 0
    - Storm: Hail(0.75)
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Property: 0
    - Storm Character: A few trees were blown down.

- **Cherokee County**
  - **4 SE Blacksburg**
    - Time: 06 1805EST
    - Path: 0
    - Width: 0
    - Number of: 0
    - Persons: 0
    - Damage: 0
    - Storm: Thunderstorm Wind (G50)
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Property: 0
    - Storm Character: Several trees were blown down.

- **York County**
  - **Rock Hill**
    - Time: 26 1800EST
    - Path: 0
    - Width: 0
    - Number of: 0
    - Persons: 0
    - Damage: 5K
    - Storm: Lightning
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Property: 5K
    - Storm Character: Lightning struck a house and caused a small fire.

- **Anderson County**
  - **5 NW Anderson to Anderson**
    - Time: 27 2200EST
    - Path: 0
    - Width: 0
    - Number of: 0
    - Persons: 0
    - Damage: 0
    - Storm: Thunderstorm Wind (G54)
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Property: 0
    - Storm Character: Some trees were blown down along Interstate 85 near mile marker 14.

- **Greenville County**
  - **2 S Fork Shoals**
    - Time: 29 1705EST
    - Path: 0
    - Width: 0
    - Number of: 0
    - Persons: 0
    - Damage: 0
    - Storm: Thunderstorm Wind (G50)
    - Path Length: 0
    - Path Width: 0
    - Number of Persons Killed: 0
    - Number of Persons Injured: 0
    - Estimated Damage: Property: 0
    - Storm Character: Several large trees were blown down across roads.
SOUTH CAROLINA, Northwest

Laurens County
4 SW Hickory Tavern 29 1720EST 0 0 Thunderstorm Wind (G50)
A few trees were blown down between Hickory Tavern and Ware Shoals.

Anderson County
3 S Belton 29 1729EST 0 0 1K Thunderstorm Wind (G50)
Some powerlines were blown down.

Greenville County
Greenville 30 1715EST 0 0 10K Thunderstorm Wind (G55)
Powerlines were blown down near Memorial Hospital and along Augusta Road. Trees were also blown onto houses.

Greenville County
Greenville 30 1730EST 0 0 Hail(0.88)

Spartanburg County
Woodruff to Moore 30 1740EST 0 0 Hail(0.88)

Spartanburg County
Woodruff to Moore 30 1740EST 0 0 Thunderstorm Wind (G50)
Some trees were blown down across Interstate 26 near the Highway 221 exit.

Greenville County
5 N Simpsonville to 3 N Simpsonville 30 1800EST 0 0 1815EST Hail(0.75)

Greenville County
Greenville 30 1830EST 0 0 50K Flash Flood
Severe urban flooding developed quickly when more than 3 inches of rain fell in a short time. Clogged storm drains resulted in flooding of I-185, which was closed for 2 hours. Water was several feet deep along parts of the roadway. Water entered several homes and at least one store in nearby areas.

Anderson County
4 E Sandy Spgs 30 1840EST 0 0 1K Thunderstorm Wind (G50)
Several trees and powerlines were blown down.

Anderson County
Anderson to 4 NW Anderson 30 1915EST 0 0 5K Thunderstorm Wind (G50)
Trees and powerlines were blown down in the Stonehaven Community. A fallen tree crushed a carport. Trees and powerlines were also blown down along Lake Hartwell.

SOUTH CAROLINA, South Coastal

SCZ040-042>045>047>050 Allendale - Hampton - Northern Colleton - Dorchester - Berkeley - Jasper - Beaufort - Southern Colleton - Charleston
01 0000EST 0 0 Drought

Colleton County
Walterboro 03 1600EST 0 0 Hail(1.00)

Allendale County
Allendale to Fairfax 03 1700EST 0 0 Thunderstorm Wind (G50)
Wind blew down several trees.

Allendale County
Ulmers 06 1910EST 0 0 Thunderstorm Wind (G50)
Numerous trees were knocked down.
SOUTH CAROLINA, South Coastal

Allendale County
5 NE Sycamore 06 1915EST 0 0 Thunderstorm Wind (G50)
Several trees down along Longpoint Road.

Allendale County
6 NE Allendale 06 1920EST 0 0 Thunderstorm Wind (G50)
An oak tree fell on a mobile home and did extensive damage.

Berkeley County
St Stephen 14 1315EST 0 0 Thunderstorm Wind (G55)
Winds knocked down numerous trees in St. Stephen. A school bus and a car were damaged.

SCZ048>050
Beaufort - Southern Colleton - Charleston
22 0811EST 1100EST 0 0 Flood
Three to five inches of rain fell along south coastal South Carolina during a six to eight hour period. The heavy rain produced flooding in Hilton Head, the City of Beaufort, the City of Charleston, and Edisto Beach. Numerous roads and streets were closed due to more than a foot of water in some places. Several inches of water got into some businesses and homes in down town Charleston.

Charleston County
Edisto Is 30 1315EST 0 0 Thunderstorm Wind (G50)
Several trees, large branches, and power lines were down.

Charleston County
Hollywood 30 1330EST 0 0 Thunderstorm Wind (G50)
Numerous large limbs were downed by thunderstorm winds.

Charleston County
6 E Ravenel 30 1345EST 0 0 Thunderstorm Wind (G50)
Several trees were down.

Berkeley County
Moncks Corner 30 1400EST 0 0 Thunderstorm Wind (G50)
Several trees were downed by thunderstorm winds.

Charleston County
Hollywood 30 1345EST 0 0 Thunderstorm Wind (G50)
Several large limbs were downed due to thunderstorm winds.

Colleton County
2 N Bennets Pt 30 1430EST 0 0 Thunderstorm Wind (G50)
Several trees were down.

SOUTH DAKOTA, Central and North

SDZ003>011-015>023-033>037-045-048-051
01 2000CST 2359CST 0 0 Drought
After a dry winter and spring, below normal rainfall for June brought severe drought conditions to the area. Much of the rainfall for June was below 50 percent of normal with much of the area receiving 20 to 40 percent of the normal rainfall. Some locations were at 10 to 15 percent of normal rainfall. Central and north central South Dakota were the hardest hit with the drought conditions. As a result of the severe dryness, alot of grazing land and stock ponds dried up and ranchers had to either buy additional feed for their animals, transport them to healthier pastureland for grazing, or sell their herds prematurely. CRP land was opened up to ranchers for haying and livestock grazing. Feed supplies and hay supplies were running short and water had to be hauled to alot of cattle. Crops suffered with much having to be cut up for hay or replanted. The crops that did make it have a low harvest potential. Water levels on lakes and rivers were also way down. Burn bans and voluntary or mandatory water restrictions were implemented across much of the area. All counties were declared drought disasters.

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9 NW Britton 06 1711CST 0 0 Hail(0.75)

Marshall County
6 NW Britton 06 1733CST 0 0 Hail(0.75)
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**SOUTH DAKOTA, Central and North**

Seventy mph winds broke off several large tree branches.

Sixty mph winds downed several tree branches and moved an empty hay trailer.

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287
SOUTH DAKOTA, Central and North

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<td>Winds of 70 to 75 mph brought down several trees and many branches throughout Pierre. The high winds in combination with the quarter size hail caused some damage to buildings and vehicles throughout Pierre. A building in downtown Pierre sustained extensive roof and structural damage due to the high winds.</td>
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Sixty mph winds brought down several tree limbs down.

Sixty mph winds brought down several branches in Selby.

June 2002

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Sixty mph winds brought down several branches in Selby.
**SOUTH DAKOTA, Central and North**

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A powerful supercell thunderstorm produced six tornados from eastern McPherson county and across northern Brown county during the evening hours of June 23rd. The first weak tornado (F0) touched down briefly 6.4 miles northeast of Leola and resulted in no

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A powerful supercell thunderstorm produced six tornados from eastern McPherson county and across northern Brown county during the evening hours of June 23rd. The first weak tornado (F0) touched down briefly 6.4 miles northeast of Leola and resulted in no
SOUTH DAKOTA, Central and North

damage. The second tornado (F1) touched down 8.5 miles northeast of Leola and crossed over into Brown county where it dissipated 9 miles northwest of Barnard. This tornado brought down many trees and a barn and caused damage to the siding and the roof of a farmhouse in McPherson county and caused no damage in Brown county. A third weak satellite tornado (F0) occurred following the dissipation of the second tornado and resulted in no damage. A fourth strong tornado (F3) developed 6 miles west of Barnard and moved east and dissipated 3 miles southeast of Barnard. This tornado brought down some high power lines along with a support tower and tossed a pickup truck 100 yards into a group of trees. The pickup truck was totaled. The tornado caused extensive damage to two farmhouses, several farm buildings, and farm equipment. One farmhouse lost its garage and most of its roof with many trees completely snapped off down low and debarked. The fifth tornado developed 5 miles southeast of Barnard and became a violent tornado (F4). This tornado caused damage to one farmhouse, several outbuildings, trees, and equipment as it moved northeast and strengthened. The tornado then completely demolished two unoccupied homes, several outbuildings, many trees, along with destroying or damaging some farm equipment before dissipating 7.6 miles northeast of Barnard. Also, a sixth weak satellite tornado (F0) occurred with this violent tornado and caused no damage. This was the first F4 tornado recorded in Brown county and one of few recorded in South Dakota. The total estimated property loss exceeded a million dollars.

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SOUTH DAKOTA, Central and North

Campbell County
5 S Herreid 28 2015CST 0 0  Thunderstorm Wind (G52)
Corson County
7 SE Little Eagle 29 1915CST 0 0  Thunderstorm Wind (G52)
Sixty mph winds downed some tree limbs and also blew a shed door off.
Corson County
8 S Little Eagle 29 1920CST 0 0  Hail(0.75)
Corson County
8 S Little Eagle 29 1920CST 0 0  Thunderstorm Wind (G61)
Seventy mph winds blew down an old barn.

SOUTH DAKOTA, Southeast

Lincoln County
8 SW Worthing 02 0115CST 0 0  Hail(0.75)
Minnehaha County
Hartford 02 2220CST 0 0  Hail(1.00)
Moody County
Trent 02 2226CST 0 0  Hail(0.75)
Minnehaha County
Crooks 02 2254CST 0 0  Hail(1.00)
Minnehaha County
Crooks 02 2300CST 0 0  Hail(0.88)
Bon Homme County
5 SW Springfield 07 1530CST 0 0  Hail(1.75)
Bon Homme County
3 W Springfield 07 1543CST 0 0  Hail(1.75)
Bon Homme County
Springfield 07 1551CST 0 0  Hail(0.75)
Bon Homme County
3 NE Springfield 07 1601CST 0 0  Hail(0.75)
Union County
1 SE Jefferson 07 1715CST 0 0  Thunderstorm Wind (G52)
Union County
Jefferson 07 1717CST 0 0  Hail(0.88)
Union County
North Sioux City 07 1900CST 0 0  Flash Flood
Heavy rain caused street and basement flooding.

Gregory County
5 N Herrick 07 2320CST 0 0  10K  Thunderstorm Wind (G61)
Thunderstorm winds blew down power lines and poles, and caused tree damage.
Moody County
Flandreau 10 1600CST 0 0  5K  Lightning
Lightning struck a house, damaging both exterior and interior walls, and damaging electrical and telephone lines to the house.
Gregory County
6 S Bonesteel 16 1453CST 0 0  Hail(0.75)
Yankton County
11 NE Yankton 17 1532CST 0 0  Hail(0.75)
### Storm Data and Unusual Weather Phenomena

**Location:** SOUTH DAKOTA, Southeast

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<th>Path Length (Miles)</th>
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Numerous reports of hail were received from Sioux Falls. Golf ball size hail was reported, but most hail reports were of one inch or lesser size.

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<td>Flash Flood</td>
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Heavy rain caused flooding of roads in Brookings. One vehicle stalled under a railroad underpass and had water up to the windows.
SOUTH DAKOTA, Southeast

Kingsbury County
13 S De Smet 1904CST
0 0  Hail(1.75)
Large hail caused damage to crops. The amount of damage was not known but the damage was not severe according to the county agriculture agent.

Miner County
Carthage 1909CST
0 0  Hail(2.50)

Aurora County
5 NW Plankinton 1931CST
0 0  Hail(0.75)

Miner County
1 S Carthage 1944CST
0 0  Hail(1.00)

Kingsbury County
2 NW Badger 1945CST
0 0  Hail(1.75)

Miner County
1 S Carthage 1945CST
0 0  Hail(1.00)

Sanborn County
7 N Artesian 1955CST
0 0  Hail(0.75)

Brule County
5 N Chamberlain 2016CST
0 0  Hail(1.00)

Jerauld County
7 N Wessington Spgs 2040CST
0 0  Hail(1.00)

Beadle County
3 E Huron 2040CST
0 0  Hail(1.00)

Brule County
5 S Chamberlain 2045CST
0 0  Thunderstorm Wind (G69)

Thunderstorm winds caused tree damage, including some trees blown down. The winds also damaged signs, fences and roofs, and blew many loose items around.

Brule County
Chamberlain to 5 N Chamberlain 2050CST
0 0  Thunderstorm Wind (G52)
2055CST

Thunderstorm winds caused tree damage, including some trees blown down. The winds also damaged signs, fences and roofs, and blew many loose items around.

Sanborn County
Letcher 2137CST
0 0  Thunderstorm Wind (G61)

Thunderstorm winds blew down trees. The amount of damage was not known.

Sanborn County
5 E Letcher 2145CST
0 0  Thunderstorm Wind (G57)

Davison County
(Mhe)Mitchell Arpt 2155CST
0 0  Thunderstorm Wind (G52)

Davison County
Mitchell 2200CST
0 0  Thunderstorm Wind (G52)

Hanson County
Fulton 2211CST
0 0  Thunderstorm Wind (G52)

Miner County
3 SW Roswell 2213CST
0 0  Thunderstorm Wind (G57)
SOUTH DAKOTA, Southeast

Thunderstorm winds caused tree damage, including four inch diameter limbs blown down.

**Hanson County, Alexandria**
- **SDZ040**
- **Brookings**
  - **24 2230CST**
  - **24 2255CST**
  - **2315CST**
- **Thunderstorm Wind (G52)**

**Hanson County, Volga to Elkton**
- **High winds not associated with thunderstorms caused tree and power line damage in a path from Volga to Elkton, including the city of Brookings. Several trees were uprooted in Elkton.**

**Hutchinson County, 5 W Dimock**
- **25 1458CST**
- **Hail(1.75)**

**Hutchinson County, 9 SW Emery**
- **25 1520CST**
- **Hail(1.75)**

**Hutchinson County, 8 E Dimock**
- **25 1525CST**
- **Hail(0.75)**

**Bon Homme County, 3 N Springfield**
- **25 1601CST**
- **Hail(0.75)**

**Bon Homme County, 3 N Springfield**
- **25 1611CST**
- **Hail(1.25)**

**Bon Homme County, 3 NE Springfield**
- **25 1627CST**
- **Hail(0.75)**

**Beadle County, 4 SE Huron**
- **25 1642CST**
- **Hail(0.75)**

**Bon Homme County, 7 SW Springfield**
- **25 1653CST**
- **Hail(0.88)**

SOUTH DAKOTA, West

**Fall River County, 6 NW Edgemont**
- **01 1915MST**
- **Hail(0.75)**

**Bennett County, 4 SW Tuthill**
- **01 2055MST**
- **Hail(1.00)**

**Mellette County, Norris**
- **01 2135MST**
- **Hail(0.88)**

Thunderstorms moved across extreme southern South Dakota during the evening. These storms periodically became severe, producing 3/4 to 1 inch hail.

**Lawrence County, 16 SW Lead**
- **02 1650MST**
- A shed was blown over and damaged.
  - **1K**
  - **Thunderstorm Wind (G64)**

**Fall River County, 2 S Burdock**
- **02 1900MST**
- **Hail(1.75)**

**Fall River County, 2 NW Burdock**
- **02 1920MST**
- **Hail(0.75)**

**Fall River County, 12 NE Minnekahta**
- **02 1930MST**
- **Hail(1.75)**

**Fall River County, 5 S Hot Spgs**
- **02 1950MST**
- **Hail(1.75)**

**Fall River County, Hot Spgs**
- **02 1950MST**
- **Hail(1.00)**

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### SOUTH DAKOTA, West

**Fall River County**
- **7 S Hot Spgs**
  - 02 1955MST
  - Hail (1.25)
- **4 E Hot Spgs**
  - 02 2005MST
  - Hail (1.75)

Severe thunderstorms moved across Fall River County producing large hail. A headlight was broken on a vehicle by golf ball sized hail 5 miles south of Hot Springs.

**Custer County**
- **Argyle**
  - 02 1955MST
  - Hail (1.75)
- **Buffalo Gap**
  - 02 2000MST
  - Thunderstorm Wind (G52)
- **Wind Cave**
  - 02 2008MST
  - Hail (0.75)

A severe thunderstorm moved across Custer County producing large hail and wind gusts to 60 mph.

**Shannon County**
- **10 W Kyle**
  - 02 2110MST
  - Hail (1.00)

**Fall River County**
- **12 NW Edgemont**
  - 08 1934MST 2111MST
  - Hail (1.00)

**Harding County**
- **Buffalo**
  - 08 2111MST
  - Hail (1.00)
- **Buffalo**
  - 08 2111MST
  - Thunderstorm Wind (G57) M
- **7 NW Ludlow to Ludlow**
  - 08 2210MST
  - Hail (0.88)

**Ziebach County**
- **9 SW Red Elm**
  - 08 2220MST
  - Thunderstorm Wind (G57)

A few thunderstorms moved across western South Dakota. Adequate atmospheric shear was present for sustained rotating updrafts and isolated supercell thunderstorms. The observed rotations were weak, however large hail and wind gusts to 60 mph were observed with the stronger storms.

**Harding County**
- **Buffalo**
  - 17 2137MST
  - Thunderstorm Wind (G51) M
- **Butte County**
  - **4 NW Castle Rock**
    - 18 2025MST
    - Hail (0.88)
- **Butte County**
  - **9 NE Castle Rock to 11 NE Castle Rock**
    - 18 2047MST
    - Hail (1.75)
- **Meade County**
  - **3 SE Mud Butte**
    - 18 2101MST
    - Hail (1.75)
- **Harding County**
  - **3 SE Harding**
    - 18 2340MST
    - Hail (1.25)
- **Harding County**
  - **3 SE Harding**
    - 18 2340MST
    - Thunderstorm Wind (G52)

Severe thunderstorms moved across northwestern South Dakota during the late evening hours. These storms produced large hail and wind gusts to 60 mph.

**Harding County**
- **11 SW Reva**
  - 19 0030MST
  - Hail (0.88)
- **Perkins County**
  - **2 S Bison**
    - 19 0100MST
    - Hail (0.75)
- **Perkins County**
  - **2 S Bison**
    - 19 0100MST
    - Thunderstorm Wind (G52)
Numerous severe thunderstorms moved across northwestern South Dakota during the evening. Most storms produced large hail and wind gusts to 70 mph. Three miles east of Buffalo in Harding County several eight to ten inch diameter tree limbs were broken off.

Numerous severe thunderstorms moved across south-central South Dakota during the evening. Three-quarter to one inch hail was common with these storms. Several 10 inch diameter tree limbs were toppled in Winner.

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<th>Path Width (Yards)</th>
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297
Perkins County
5 S Zeona
South Dakota, West
Thunderstorm Wind (G52)
00029  5 S Zeona 1430MST
Marine Tstm Wind (G45)
15K0023Ogdensburg 1740EST
ST LAWRENCE RIVER
SLZ24 St Lawrence R From Ogdensburg To St Regis Ny
EMA reported trees and tree limbs were down along with power lines. A tree limb went through a car.
0700CST
TENNESSEE, Central
Wilson County
La Guardo
TENNESSEE, Central
04 1615CST
Van Buren County
5 W Spencer
Thunderstorm Wind (G50)
04 1745CST
Trees were blown down.
Davidson County
Nashville
Thunderstorm Wind (G50)
06 0300CST
0700CST
Several roads closed in Nashville due to high water.
Summer County
Countywide
Thunderstorm Wind (G50)
06 0530CST
0700CST
EMA reported scattered flooding in low lying areas.
Giles County
Pulaski
Thunderstorm Wind (G50)
13 1420CST
Franklin County
Huntland
Thunderstorm Wind (G50)
13 1600CST
Police reported large tree limbs were down.
Perry County
3 SE Lobelville
Thunderstorm Wind (G50)
20 1925CST
Ham SKYWARN Spotter reported a trailer was blown down along with several trees in the area.
Davidson County
Bellevue
Thunderstorm Wind (G50)
24 1650CST
EMA reported trees and power lines were down.
Williamson County
Fairview
Thunderstorm Wind (G50)
24 1720CST
Trees were down in Fairview and Fernvale.
Davidson County
Hermitage
Thunderstorm Wind (G50)
25 0527CST
EMA reported a tree down on Shutes Lane and Saundersville Rd.
Sumner County
Hendersonville
Thunderstorm Wind (G50)
25 0540CST
Radio station reported trees were blown down on Maple Road in Hendersonville.
Cheatam County
10 N Pegram
Thunderstorm Wind (G50)
25 0600CST
EMA reported a tree was down at intersection of Sams Creek Road and Hwy 249.
Davidson County
Nashville
Thunderstorm Wind (G50)
25 0625CST
EMA reported trees were down in the western sections of the city.
### TENNESSEE, Central

**Hickman County**  
Centerville  
- 26  1510CST  
- Law enforcement reported trees down in Centerville.

**Giles County**  
**Pulaski**  
- 30  1700CST  
- Law enforcement reported power lines were down.

**Giles County**  
**5 NE Pulaski**  
- 30  1705CST  
- Spotter reported trees were blown down.

**Davidson County**  
Nashville  
- 30  1930CST  
- Police reported several trees were down in East Nashville.

### TENNESSEE, East

**Johnson County**  
**Central Portion**  
- 02  1515EST  
- A few trees reported down across power lines in north and central part of county.

**Sullivan County**  
Bristol  
- 02  1538EST  
- Dime sized hail reported in the vicinity of Bristol.

**Johnson County**  
Doeville  
- 02  1600EST  
- Dime sized hail reported in Doeville.

**Campbell County**  
**7 SE Fincastle**  
- 02  2030EST  
- Trees and power lines were reported down seven miles southeast of Fincastle.

**Claiborne County**  
**3 SW Tazewell**  
- 02  2040EST  
- Trees and power lines reported down southwest of Tazewell.

**Union County**  
Luttrell  
- 02  2050EST  
- A few trees and power lines reported down in Luttrell area and in the north part of the county.

**Polk County**  
Ocoee  
- 04  1315EST  
- Dime sized hail reported near Ocoee.

**Sevier County**  
Gatlinburg  
- 04  1355EST  
- Trees reported down on power lines

**Cocke County**  
**5 N Cosby**  
- 04  1425EST  
- Trees reported down across rural roads 5 miles north of Cosby.

**Blount County**  
Townsend  
- 04  1500EST  
- Trees reported down on power lines in Townsend.

**Marion County**  
Mineral Spgs to 3 SW Sequatchie  
- 04  1515CST  
- Trees reported down on Mullens Cove road near Mineral Springs.

**Meigs County**  
Decatur  
- 04  1605EST  
- Dime sized hail reported near Decatur.

---

**Storm Data and Unusual Weather Phenomena**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons</th>
<th>Estimated Damage Property</th>
<th>Crops</th>
<th>Character of Storm</th>
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<tr>
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</table>
### TENNESSEE, East

**Memphis County**
- **Riceville**
  - Date: 04
  - Time: 1610EST
  - Character: Dime size hail reported in Decatur.

**Hamilton County**
- **Hixson**
  - Date: 04
  - Time: 1632EST
  - Character: Quarter size hail reported at Riceville.

**Bradley County**
- **Hopewell**
  - Date: 04
  - Time: 1640EST
  - Character: Dime size hail reported at Hopewell.

**Meigs County**
- **Tennville**
  - Date: 04
  - Time: 1645EST
  - Character: Trees reported down on power lines at Tennmile.

**Hamilton County**
- **Chattanooga**
  - Date: 04
  - Time: 1645EST
  - Character: Thunderstorm winds resulted in the collapse of the roof of Family Christian Stores and Oreck Floor Care Center.

**Scott County**
- **Countywide**
  - Date: 04
  - Time: 1700EST
  - Character: Trees and power lines reported down countywide.

**Meigs County**
- **Decatur**
  - Date: 04
  - Time: 1715EST
  - Character: Trees reported down on power lines at Decatur.

**Rhea County**
- **Dayton**
  - Date: 04
  - Time: 1725EST
  - Character: Trees reported down on power lines at Dayton.

**Hamilton County**
- **5 NE Hixson**
  - Date: 04
  - Time: 1740EST
  - Character: Trees reported down 5 miles northeast of Hixson.

**Hamilton County**
- **Chattanooga**
  - Date: 04
  - Time: 1800EST, 1900EST
  - Character: Numerous road closures including Boy Scout Road were reported due to flash flooding in Chattanooga.

**Bradley County**
- **Countywide**
  - Date: 04
  - Time: 1800EST
  - Character: Trees were reported down on power lines across the county.

**Bradley County**
- **Countywide**
  - Date: 04
  - Time: 1900EST, 2000EST
  - Character: Numerous creeks were reported out of their banks across the county. Also, widespread road closures were reported.

**Polk County**
- **Ducktown**
  - Date: 20
  - Time: 1740EST, 1750EST
  - Character: Dime size hail was reported in Ducktown.

**Blount County**
- **5 W Maryville**
  - Date: 25
  - Time: 1630EST
  - Character: Numerous trees and power lines were reported down 5 miles west of Maryville.

**Morgan County**
- **1 N Sunbright**
  - Date: 26
  - Time: 1630EST
  - Character: Trees were reported down 1 mile north of Sunbright on highway 27.

**Bradley County**
- **McDonald**
  - Date: 30
  - Time: 1745EST
  - Character: Two to three trees were reported down in McDonald.
**TENNESSEE, East**

Bradley County

Cleveland

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<tr>
<th>30</th>
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<th>0</th>
<th>0</th>
<th>12K</th>
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<td>One tree down and small limbs blown off trees in Cleveland. Also, power lines down in the Cleveland area.</td>
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Hamilton County

Harrison

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<th>05</th>
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<td>Spotter reported a tree had fallen on a house in Harrison.</td>
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**TENNESSEE, West**

Madison County

1 NE Jackson

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Madison County

1 NE Jackson

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<td>Several trees and power lines were blown down.</td>
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Shelby County

Memphis

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<td></td>
<td>Several roads in the far eastern part of Memphis were flooded.</td>
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**TEXAS, Central**

Haskell County

5 NW Stamford to 1 N Stamford

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<th>04</th>
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<td>A tornado developed over southern Haskell County just northwest of Stamford. This tornado moved to the southeast towards the town of Stamford. It uprooted trees and many birds were reported killed.</td>
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Jones County

1 N Stamford to Stamford

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<th>04</th>
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<th>1915CST</th>
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<td>Storm Spotters continued to track the tornado from Haskell County into northern Jones County.</td>
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Throckmorton County

Elbert

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<th>04</th>
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<th>2001CST</th>
<th>2004CST</th>
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<td>Law enforcement reported a brief tornado in Elbert. No structures were hit by the tornado.</td>
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Jones County

Stamford

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Jones County

1 E Anson

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<th>0</th>
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Jones County

15 S Anson

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Taylor County

Tye

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Taylor County

Tye

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<td>Eye witness at a truck stop in Tye saw the tornado coming at her. She alerted the people inside the truck stop to take shelter. She said the Tornado dissipated right before hitting the gas pumps.</td>
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Taylor County

Dyess Afb

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<td>Observer at Dyess Airforce Base reported two inch diameter hail.</td>
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Texas, Central

Taylor County

Tye

13 1910CST  0 5 150K  Hail(2.75)
Baseball size hail moved through the community of Tye causing significant damage to homes and automobiles. Five people were injured by the hail and broken glass.

Taylor County

View

13 1922CST  0 0 20K  Hail(2.75)
A storm spotter reported damage to his home and several of his vehicles. This damage was caused by baseball size hail.

Irion County

13 N Mertzon

13 1927CST  0 0  Thunderstorm Wind (G61)

Taylor County

Buffalo Gap

13 1948CST  0 0  Hail(1.75)

Irion County

Mertzon

13 1958CST  0 0 10K  Thunderstorm Wind
High thunderstorm winds knocked down several power poles and caused roof damage to the school in Mertzon.

Tom Green County

1 S Tankersly

13 2015CST  0 0 3K  Thunderstorm Wind
A storm spotter reported power lines knocked down due to high thunderstorm winds.

Haskell County

Haskell

13 2035CST  0 0  Hail(1.00)
Severe thunderstorms moved across the Big Country and the western Concho Valley. Taylor county just to the west and south of Abilene was especially hard hit with hail to the size of baseballs. An eye witness at the truck stop in Tye saw a brief tornado that almost hit the truck stop. Severe thunderstorms over the western Concho Valley produced high winds that caused damage to the school in Mertzon.

Haskell County

7 N Haskell

15 2125CST  0 0  Thunderstorm Wind (G61)

Haskell County

Lake Stamford

15 2130CST  1 2  Thunderstorm Wind (G61)
Strong thunderstorm winds capsized a boat on Lake Stamford. Three people were in the boat at the time it capsized and one person drowned. M40BO

Throckmorton County

Throckmorton

15 2145CST  0 0  Thunderstorm Wind (G61)

Throckmorton County

Elbert

15 2200CST  0 0 8K  Thunderstorm Wind
Strong thunderstorm winds blew the roof off of a building in Elbert.

Shackelford County

5 NW Albany

15 2210CST  0 0 4K  Thunderstorm Wind
Power lines were downed as a result of strong thunderstorm winds.

Shackelford County

Albany

15 2215CST  0 0 4K  Thunderstorm Wind
Power lines were downed in the city of Albany.

Jones County

Hamlin

15 2338CST  0 0  Thunderstorm Wind (G52)

Brown County

Brownwood

16 0020CST  0 0 12K  Thunderstorm Wind
Several power lines and trees were downed in the city of Brownwood due to strong thunderstorm winds.

Tom Green County

San Angelo Mathis Fl

16 0125CST  0 0  Thunderstorm Wind (G53)
Thunderstorms several miles to the north of San Angelo produced an outflow that sent strong winds across the northern portions of Tom Green county and the City of San Angelo.

Coleman County

Coleman

16 0150CST  0 0 12K  Thunderstorm Wind
Trees and power lines were downed over the city of Coleman due to strong thunderstorm winds.

June 2002
Thunderstorms formed over the Texas Panhandle and western Oklahoma during the early evening hours. These storms moved quickly to the southeast and produced strong damaging winds over much of west central Texas in the late evening and early morning hours.

Coke County
10 SW Robert Lee
27 0330CST
Thunderstorm Wind (G52)

Tom Green County
Water Vly
27 0345CST
Thunderstorm Wind (G52)

Tom Green County
12 N San Angelo to 2 N San Angelo
27 0350CST
Thunderstorm Wind (G52)

Strong thunderstorm winds produced a gust front that contained winds of 60 to 65 mph. Damage occurred to roof of a carport just north of San Angelo.

TEXAS, Central Southeast

Brazos County
Bryan
16 0310CST
Trees blown down.

Burleson County
Caldwell
16 0310CST
Trees blown down.

Burleson County
Somerville
16 0310CST
Trees blown down; one on a house.

Washington County
Burton
16 0331CST
Trees blown down.

Washington County
Countywide
16 0331CST 0345CST
Trees blown down countywide...including in Brenham at FM 289 and Old Mill Rd.

Walker County
New Waverly
16 0345CST
Trees blown down at FM 1374.

Waller County
Waller
16 0358CST
Trees blown down along C Street.

Washington County
5 WSW Burton
16 0415CST
Lightning caused fire that destroyed 25 to 50% of Carmine Feed and Fertilizer in Carmine.

Montgomery County
Countywide
16 0430CST 0445CST
Trees blown down across the entire county.

Fort Bend County
Clodine
16 0525CST
Hail(0.75)

Fort Bend County
Clodine
16 0525CST
Thunderstorm Wind (G51)

Harris County
Alief
16 0525CST
Trees blown down in the Mission Glen Subdivision.
 TEXAS, Central Southeast

Wharton County
Countywide  16  0525CST  0  0  30K  Thunderstorm Wind
Trees blown down from Wharton to El Campo...some fell on houses and cars.

Brazoria County
Damon  16  0550CST  0  0  3K  Thunderstorm Wind
Trees blown down.

Brazoria County
Sweeny  16  0550CST  0  0  5K  Thunderstorm Wind
Trees blown down.

Harris County
Morgans Pt  16  0555CST  0  0  2K  Thunderstorm Wind (G55)^M
55 knot gust recorded by PORTS station.

Montgomery County
Conroe  21  2030CST  0  0  4K  Hail(0.75)

Brazoria County
L5 S Angleton  29  1047CST  0  0  5K  Thunderstorm Wind
Wind damage to a home at FM 523 and CR 804.

Fort Bend County
3 N Sugarland  29  1122CST  0  0  20K  Thunderstorm Wind
Wind damage to homes in the Salida Del Sol Subdivision (key map 527K), powerlines down.

Harris County
Countywide  29  1200CST/1215CST  0  0  50K  Thunderstorm Wind

Montgomery County
Magnolia  29  1230CST  0  0  5K  Thunderstorm Wind
Powerlines blown down on FM 2978.

Montgomery County
New Caney  29  1235CST  0  0  5K  Thunderstorm Wind
Trees blown down along FM 1485.

Waller County
Hempstead  29  1237CST  0  0  3K  Thunderstorm Wind
13 trees blown down.

Walker County
1 W Huntsville  29  1330CST  0  0  3K  Thunderstorm Wind
Trees blown down.

Madison County
1 S Madisonville  29  1350CST  0  0  3K  Thunderstorm Wind
Trees blown down.

 TEXAS, Extreme West

El Paso County
Fabens  14  2005MST  0  0  75K  Thunderstorm Wind (G52)
Thunderstorm outflow winds were estimated at 60 mph in Fabens, and resulted in power outages and a few downed trees. Lesser winds (50 mph) further northwest caused some unsecured trailer homes to blow over into some power poles.

Hudspeth County
Dell City  20  1525MST  0  0  50K  Thunderstorm Wind (G52)
Estimated wind gusts of 60 mph caused a power outage and visibilities near zero in blowing dust.

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## Storm Data and Unusual Weather Phenomena

### June 2002

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Time Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Number of Persons Total Damaged</th>
<th>Property Damage</th>
<th>Crops Damage</th>
<th>Character of Storm</th>
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<td>Numerous trees were blown down by high winds.</td>
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<td>One large tree and two small trees were blown down by high winds.</td>
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<td>Ft Worth</td>
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<td>A large tree was blown down on the corner of West Bolt and Baldwin streets. Power lines were blown down in east Fort Worth and just west of the downtown area.</td>
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<td>Olney</td>
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<td>High winds blew away a shed, flashing was torn from the roof of city hall, and a storefront window was broken.</td>
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<td>Jacksboro</td>
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<td>Trees and power lines blown down in town and also scattered damage across the county.</td>
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<tr>
<td>Newcastle</td>
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<td>The roof was blown off a grocery store and multiple power lines were blown down.</td>
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<tr>
<td>5E Ringgold</td>
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<td>Telephone poles were blown down across Highway 82.</td>
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<td>Graford</td>
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</tbody>
</table>
Two roofs were blown off homes near Graford, there was damage to a business, damage to the high school gym, and trees and power lines were blown down.

Palo Pinto County

8 N Strawn

15 2240CST 0 0 5K Thunderstorm Wind (G52)
A shed was destroyed, a barn damaged, and trees were blown down.

Eastland County

Eastland

15 2255CST 0 0 3K Thunderstorm Wind (G52)
Windows were blown out of the dairy queen, and trees were blown down around the county.

Palo Pinto County

Mineral Wells

15 2255CST 0 0 100K Thunderstorm Wind (G62)
ASOS reported wind gusts to 74 mph. There was widespread damage to homes and businesses, numerous reports of outbuildings destroyed, and numerous trees and power lines blown down. Wal-Mart had to close Sunday to clean up the damage.

Eastland County

Countywide

15 2300CST 0 0 5K Thunderstorm Wind (G52)
Power poles and street lights blown down in Eastland, Cisco, and Ranger.

Erath County

Morgan Mill

15 2315CST 0 0 10K Thunderstorm Wind (G52)
Trees were blown down on Highway 281 near Morgan Mill. The roof of the Morgan Mill school was heavily damaged.

Hood County

Countywide

15 2315CST 0 0 Thunderstorm Wind (G52)
Trees were blown down across the county.

Parker County

Aledo

15 2315CST 0 0 Thunderstorm Wind (G61)

Wise County

Countywide

15 2315CST 0 0 Thunderstorm Wind (G52)
Trees blown down over all the county.

Hood County

Countywide

15 2330CST 0 0 5K Thunderstorm Wind (G52)
Trees, power lines, and street signs were blown down across the county.

16 2330CST

Tarrant County

Keller

15 2330CST 0 0 Thunderstorm Wind (G62)

Young County

Graham

15 2330CST 0 0 20K Thunderstorm Wind (G52)
Part of a church roof was blown off, the canopy was blown off a gas station, several windows broken, and damage to several parked cars from wind blown debris.

Comanche County

Countywide

15 2335CST 0 0 4K Thunderstorm Wind (G52)
Trees were blown down across the county.

Johnson County

Burleson

15 2340CST 0 0 Thunderstorm Wind (G52)
A 40 to 50 foot high tree was blown down across McAlister Road in Burleson.

Tarrant County

Arlington

15 2345CST 0 0 Thunderstorm Wind (G50)
Large tree blown down.

Johnson County

Alvarado

15 2350CST 0 0 Thunderstorm Wind (G69)
State trooper on Interstate 35 near Alvarado reported wind gusts to 80 mph.

Bosque County

Meridian

16 0000CST 0 0 2K Thunderstorm Wind (G52)
Trees down on Highway 6 between Meridian and Clifton.
TEXAS, North

Hill County
5 E Hillsboro
16 0015CST
Trees and a power pole were blown down.; Thunderstorm Wind (G52)

Mills County
Goldthwaite
16 0015CST
Trees were blown down in town. Thunderstorm Wind (G52)

Ellis County
Countywide
16 0030CST
Trees and power lines were blown down across the county. Thunderstorm Wind (G52)

Lampasas County
Nix
16 0040CST
Large trees blown down in Nix and along FM 580. Thunderstorm Wind (G57)

Coryell County
Copperas Cove
16 0045CST
Numerous trees were down in Copperas Cove and Gatesville. Thunderstorm Wind (G52)

Mclennan County
Waco
16 0057CST
Reported at Waco EOC station. Thunderstorm Wind (G52)

Mclennan County
Waco
16 0100CST
Reported at Waco EOC station. Thunderstorm Wind (G52)

Tarrant County
Haltom City
26 1520CST
Apartment complex on Baker Boulevard had roof peeled off, and veneer wall on north side of complex sustained major damage. Late model car in the parking lot had trunk lid peeled over top of car. Thunderstorm Wind (G52)

Bell County
Heidenheimer
26 1610CST
Hail(0.75)

Falls County
Chilton
26 1731CST
Several outbuildings blown down west of Chilton on FM 965. Thunderstorm Wind (G50)

Grayson County
Van Alstyne
26 1800CST
18 wheelers on Highway 75 blown over, signs blown down, and large tree was blown onto a house. Thunderstorm Wind (G52)

Milam County
Rockdale
26 1828CST
Non-specific wind damage was reported by the fire chief. Thunderstorm Wind (G52)

TEXAS, North Panhandle

Collingsworth County
Wellington
04 1219CST
Hail(0.88)

Oldham County
10 W Adrian
04 1826CST
Thunderstorm Wind (G52)

Oldham County
Adrian
04 1900CST
Hail(0.75)

Oldham County
2 NW Vega
04 1907CST
Thunderstorm Wind (G61)

Deaf Smith County
3 S Hereford
04 1930CST
Hail(1.00)

Potter County
Bushland
04 1938CST
Thunderstorm Wind (G52)
## Storm Data and Unusual Weather Phenomena

**June 2002**

<table>
<thead>
<tr>
<th>Location</th>
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308
Severe thunderstorms with large hail and damaging winds moved across the central and northeastern Texas panhandle during the late afternoon and early evening hours.

Severe thunderstorms containing large hail struck the south-central through eastern Texas panhandle during the early evening hours.

A couple of severe thunderstorms moved across the north-central and central Texas panhandle during the mid to late afternoon hours and also during the early evening hours.

Numerous trees and powerlines were reported down.
Severe thunderstorms containing large hail and damaging winds raked across a large part of the central and eastern Texas panhandle during the evening hours.

Sherman County
Stratford
17 1920CST 0 0 Hail(0.75)

Hutchinson County
3 S Stinnett
17 1943CST 0 0 Hail(1.00)

Hutchinson County
Fritch
17 2010CST 0 0 Hail(0.75)

Hutchinson County
Fritch
17 2010CST 0 0 Hail(0.75)

The town of Sanford reported three to four inch limbs broken off of trees.

Hutchinson County
Fritch
17 2015CST 0 0 Hail(0.75)
Severe thunderstorms with high winds and large hail moved across the central and south-central Texas panhandle during the evening hours.

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Number of Persons Property</th>
<th>Number of Persons Crops</th>
<th>Character of Storm</th>
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Severe thunderstorms with high winds and large hail moved across the central and south-central Texas panhandle during the evening hours.

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<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Number of Persons Property</th>
<th>Number of Persons Crops</th>
<th>Character of Storm</th>
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Severe thunderstorms moved across the south-western...central and eastern Texas panhandle during the early evening hours. The storms produced high winds and some hail.
Numerous trees down on County Road 2120 and 2107.

Several power lines down across Hwy 69.

Several large trees down on FM 241.

Several large trees down on Hwy 294.

Several large and medium trees fell across CR 779.

A 64 year old man was struck by lightning and was found conscious and breathing when emergency personnel arrived at his residence. The man was transported to Good Shepherd Medical Center in Longview.

Several power lines down across Hwy 69.

Several large trees down on FM 241.

Several large trees down on Hwy 294.

Several large and medium trees fell across CR 779.

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Trees were blown down by severe thunderstorm winds.
Texas, South Central

Williamson County

Taylor

<table>
<thead>
<tr>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
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<th>Estimated Damage Crops</th>
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Widespread wind damage was reported to trees, outbuildings and to roofs of homes.

Williamson County

Taylor

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<tr>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
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Thunderstorm Wind (G57)^M

Bastrop County

Elgin

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Several large trees were knocked over by severe thunderstorm winds in and around the Elgin area. Windows were also broken out in homes by large limbs knocked off trees.

Bastrop County

Paige

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<th>Path Width (Yards)</th>
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Trees were blown down 3 miles west of the intersection of US290 and SH21 near Paige.

Lee County

10 WSW Lincoln to 5 SW Lincoln

<table>
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<th>Path Width (Yards)</th>
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Trees were blown over by severe thunderstorm winds along US21 between Lincoln and Manheim.

Val Verde County

Del Rio

<table>
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<th>Date</th>
<th>Time Local/Standard</th>
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<th>Path Width (Yards)</th>
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Rainfall of up to 4 inches in less than 2 hours caused flash flooding across the city of Del Rio. The Sheriff's Department reported numerous low water crossings flooded in the city.

Fayette County

Muldoon

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<thead>
<tr>
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<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
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Williamson County

5 S Taylor

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Williamson County

Taylor

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<td>100K</td>
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<td>Thunderstorm Wind</td>
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Roofs were damaged, with some blown off homes, by severe thunderstorm winds. A mobile home was also damaged by the severe winds. Over 9000 homes were without power in Cedar Park for several hours due to the storm.

Williamson County

Georgetown

<table>
<thead>
<tr>
<th>Date</th>
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<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
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<th>Number of Persons Injured</th>
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Williamson County

Leander to Cedar Park

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<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
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<tr>
<td>26</td>
<td>1800 CST 1815 CST</td>
<td>0</td>
<td>0</td>
<td>50K</td>
<td>0</td>
<td>Thunderstorm Wind</td>
<td></td>
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</tbody>
</table>

Large limbs were knocked out of trees and large trees were blown down by severe thunderstorm winds in a path that stretched from near Leander to Cedar Park.

Williamson County

Georgetown

<table>
<thead>
<tr>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>26</td>
<td>1806 CST 1810 CST</td>
<td>0</td>
<td>0</td>
<td>150K</td>
<td>0</td>
<td>Thunderstorm Wind (G55)^M</td>
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</table>

Trees were blown down by severe thunderstorm winds. Also, an 18-wheeler was blown over by the winds.

Bastrop County

6 N Elgin

<table>
<thead>
<tr>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
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</thead>
<tbody>
<tr>
<td>26</td>
<td>1820 CST 1835 CST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Hail(0.75)</td>
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Williamson County

Georgetown

<table>
<thead>
<tr>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
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<tbody>
<tr>
<td>26</td>
<td>1820 CST 1830 CST</td>
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<td>0</td>
<td>0</td>
<td>Hail(1.75)</td>
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Lee County

10 NW Fedor

<table>
<thead>
<tr>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
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<tbody>
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<td>26</td>
<td>1829 CST 1845 CST</td>
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<td>0</td>
<td>Hail(0.75)</td>
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### Storm Data and Unusual Weather Phenomena

**June 2002**

<table>
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<th>Location</th>
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<th>Time Local/ Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
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<td>Flash Flood</td>
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<td>Countywide</td>
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</table>

Severe thunderstorm winds estimated at over 50 knots blew down numerous large branches from trees.

Severe thunderstorm winds estimated at over 50 knots blew down numerous large branches from trees.

Amateur radio operators reported nearly 2 inches of rain falling in less than 30 minutes in the Kerrville area. As a result, low water crossings were flooded for almost two hours.
TEXAS, South Central

Bexar County
Countywide 30 0930CST 1700CST 0 0 15K 0 Flash Flood
General 2 to 3 inch rainfall totals with isolated amounts of up to 7 inches.

Burnet County
South Portion 30 0930CST 1500CST 0 0 10K 0 Flash Flood
General 1 to 2 inch rainfall totals with isolated amounts of up to 4 inches.

Gillespie County
Southeast Portion 30 1000CST 1800CST 0 0 10K 0 Flash Flood
General 2 to 3 inch rainfall totals with isolated amounts of up to 6 inches.

Kerr County
East Portion 30 1000CST 1800CST 0 0 10K 0 Flash Flood
General 3 to 4 inch rainfall totals with isolated amounts of up to 8 inches.

Toward the end of June, 2002, a trough of low pressure, featuring a cold-core low on its north end, moved inland from the western Gulf of Mexico across the Texas Coast. This system, with cold temperatures aloft and a rich moisture field and very warm temperatures in the lower levels of the atmosphere, began to produce widespread showers and thunderstorms across central Texas. On the 29th of June, the activity produced general rain amounts of less than 1 inch, with isolated totals between 3 and 4 inches over parts of Guadalupe, Hays, Bandera, Gonzales and DeWitt Counties. No flooding problems were indicated, but a long-standing drought had begun to weaken, and soils along and east of the I-35 corridor were starting to saturate.

The shower and thunderstorm activity that developed on June 30th was much more widespread and significant. The activity initiated over the Hill Country shortly after midnight on the 29th and spread southeastward to cover most of South Central Texas. An axis of heavier rain ran along much of the I-35 corridor from Marble Falls to Blanco to Boerne to San Antonio to Pleasanton and southward beyond Tilden. In this area, the average rainfall was between 3 and 5 inches, with isolated totals to near 9 inches. Area soils were completely saturated within a few hours, and by mid-afternoon, most streams and creeks were running full. Widespread flash flooding began just before sunrise and continued well into the afternoon period in the counties of Burnet, Gillespie, Blanco, Kerr, Bandera, Kendall, Hays, Comal, Bexar and Guadalupe. Damage was reported to roads and bridges across this ten county area. There were no injuries and no loss of life.

The Pedernales River crested at Johnson City at 20.14 feet on June 30 at 1715 CST. Flood stage is 14.0 feet.

The Blanco River crested at Wimberley at 16.88 feet on June 30 at 2245 CST. Flood stage is 13.0 feet.

TEXAS, South Panhandle

Hall County
Memphis 04 1127CST 0 0 25K Hail(0.88)
Cottle County
Cee Vee 04 1300CST 0 0 25K Hail(0.88)
Childress County
2 SW Childress 04 1310CST 0 0 25K Hail(0.75)
Bailey County
1 E Goodland to 6 N Maple 04 1315CST 1330CST 0 0 100K Hail(1.00)
Hail up to quarter size destroyed crops.

Childress County
Arlie 04 1320CST 0 0 2K Thunderstorm Wind
Strong thunderstorm winds blew down trees and power lines.

Lubbock County
5 SW Shallowater to 3 S Shallowater 04 1330CST 1415CST 0 0 2M Hail(1.75)
Wind-driven hail up to golfball size destroyed more than 11,000 acres of cotton.
## Storm Data and Unusual Weather Phenomena

**June 2002**

<table>
<thead>
<tr>
<th>Location, South Panhandle</th>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Property Damage</th>
<th>Estimated Crop Damage</th>
<th>Character of Storm</th>
</tr>
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<tbody>
<tr>
<td>Lubbock County 5 SW Shallowater</td>
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<td>Thunderstorm Wind (G52)</td>
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<tr>
<td>Hockley County Roundup</td>
<td>1342 CST</td>
<td>0 0</td>
<td>25K 200K</td>
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</tr>
<tr>
<td>The Hockley County Sheriff's office reported golfball size hail.</td>
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<td></td>
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<tr>
<td>Hale County 3 N Abernathy</td>
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<td>Hail(0.88)</td>
</tr>
<tr>
<td>Lubbock County Reese Afb</td>
<td>1400 CST</td>
<td>0 0</td>
<td>25K</td>
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<td>Hail(1.50)</td>
</tr>
<tr>
<td>Lubbock County 2 E Reese Afb</td>
<td>1403 CST</td>
<td>0 0</td>
<td>200K</td>
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<td>Hail(1.75)</td>
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<tr>
<td>Storm spotters reported golfball size hail.</td>
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<td>Lubbock County New Deal</td>
<td>1430 CST</td>
<td>0 0</td>
<td></td>
<td></td>
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<td>Hail(0.75)</td>
</tr>
<tr>
<td>Hail up to dime size was reported to be one foot deep in portions of town.</td>
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<tr>
<td>The West Texas Mesonet station northeast of town measured 69 mph wind gusts.</td>
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<td>0 0</td>
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<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>Strong thunderstorm winds snapped thirteen large transmission poles and fourteen distribution poles.</td>
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</tr>
<tr>
<td>Floyd County 1 W Barwise</td>
<td>1510 CST</td>
<td>0 0</td>
<td>200K</td>
<td></td>
<td></td>
<td></td>
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<td>Hail(1.75)</td>
</tr>
<tr>
<td>The Floyd County Sheriff's office reported golfball size hail. A few hundred acres of cotton were destroyed.</td>
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<td>2K</td>
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<tr>
<td>Eight power poles were snapped by strong thunderstorm winds.</td>
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<td>0 0</td>
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<td>Hail(1.75)</td>
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<tr>
<td>Wind-driven golfball size hail was reported by law enforcement officials. At least 8000 acres of cotton were destroyed.</td>
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<tr>
<td>Strong thunderstorm winds destroyed a large feeder house.</td>
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<td>25K 150K</td>
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<td>Hail(1.75)</td>
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<tr>
<td>The public reported golfball size hail.</td>
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<td>Hail(1.00)</td>
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<tr>
<td>The Floyd County Sheriff's office reported golfball size hail. The hail damaged automobiles and the roofs of homes.</td>
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<td>150K</td>
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<td>Thunderstorm Wind (G57)</td>
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<tr>
<td>Spotters affiliated with the Floyd County Sheriff's office estimated 60 to 70 mph winds in town. The wind damaged the roofs of several homes and businesses, destroyed several center pivot irrigation systems, snapped at least 56 power poles and blew down trees.</td>
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</tr>
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**Storm Data and Unusual Weather Phenomena**

<table>
<thead>
<tr>
<th>Location, South Panhandle</th>
</tr>
</thead>
<tbody>
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<td>7 E Cee Vee</td>
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<td>4 S Floydada</td>
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**June 2002**

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<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
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<tr>
<td>The West Texas Mesonet station northeast of town measured 78 mph thunderstorm wind gusts.</td>
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<td>Four to five inches of rain in two hours resulted in flooding in town. Some roads had one to two feet of water covering them.</td>
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<td>Golfball size hail was reported in Cedar Hill.</td>
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<td>An off-duty NWS meteorologist reported a tornado west of town. The tornado remained over open country.</td>
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<tr>
<td>I-27 north of town was flooded and closed.</td>
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<tr>
<td>Spotters affiliated with the Matador FD reported hail larger than golfball size. Homes and automobiles were damaged and thousands of acres of crops were destroyed.</td>
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<tr>
<td>Storm spotters affiliated with the Matador FD reported golfball to baseball size hail.</td>
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<tr>
<td>A farmer reported 4.5 inches of rain in 1.5 hours. Several Farm-to-Market roads were flooded.</td>
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<tr>
<td>Baseball size hail was reported in town. The hail damaged automobiles and the roofs of many homes.</td>
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</table>
### Storm Data and Unusual Weather Phenomena

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
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<th>Number of Persons Injured</th>
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<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
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<td>Ten power poles were snapped in the northwest part of town.</td>
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<td>An off-duty NWS employee reported golfball size hail near Loop 289 and Highway 87.</td>
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<td>Golfball size hail fell at the NWS office on the south side of town.</td>
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</table>

**Texas, South Panhandle**

Large hail broke car windshields, cracked skylights, broke windows, and damaged the roofs of homes.

The Hockley County Sheriff’s office reported baseball size hail. Automobiles and the roofs of homes were damaged.

The Littlefield PD reported golfball size hail.

Strong thunderstorm winds downed trees and power lines just west of Reese Center.

The public reported hail larger than golfball size south of town.

An off-duty NWS employee reported golfball size hail.

An off-duty NWS employee reported golfball size hail near Loop 289 and Highway 87.

Ten power poles were snapped in the northwest part of town. Roofs of several homes were also damaged.

An off-duty NWS employee reported golfball size hail.
### TEXAS, South Panhandle

<table>
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<th>Location</th>
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<th>Time</th>
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<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
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<td>North Portion</td>
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<td>Hail(2.75)</td>
<td>Baseball size hail destroyed thousands of acres of crops.</td>
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<td>The Garza County Sheriff's office reported baseball size hail in town.</td>
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</tbody>
</table>
TEXAS, South Panhandle

Bailey County
Bula to 6 S Bula

09 1745CST 1755CST 0 0 1M Hail(1.75)
Wind-driven golfball size hail destroyed thousands of acres of cotton.

Bailey County
Bula

09 1745CST 0 0 Thunderstorm Wind (G61)
Personnel at the Bula gin estimated 70 mph thunderstorm wind gusts.

Hockley County
Oklahoma Flat

09 1810CST 0 0 2K 40K Thunderstorm Wind
Strong thunderstorm winds blew down trees and power lines. Wind-driven heavy rain and hail also damaged crops.

Hockley County
Levelland

09 1820CST 0 0 2K Thunderstorm Wind
Strong thunderstorm winds snapped power poles just west of town.

Hockley County
Levelland

09 1825CST 0 0 Hail(0.75)
The West Texas Mesonet station south of town measured 58 mph thunderstorm wind gusts.

Hockley County
4 S Levelland

09 1825CST 0 0 Thunderstorm Wind (G50) M
The West Texas Mesonet station south of town measured 86 mph thunderstorm wind gusts. Wind-driven hail and rain destroyed around 20,000 acres of cotton.

Lubbock County
5 N Shallowater

09 1852CST 0 0 Thunderstorm Wind (G65)
Trees were uprooted and large limbs were blown down by strong thunderstorm winds. The public estimated 70 to 80 mph winds in the area.

Hale County
4 W Abernathy

09 1920CST 0 0 Thunderstorm Wind (G57)
Trees were uprooted and large limbs were blown down by strong thunderstorm winds. The public estimated 60 to 70 mph winds in the area.

Hale County
Plainview

09 2020CST 0 0 2K Thunderstorm Wind
Strong thunderstorm winds blew down power poles and signs.

Hockley County
Pettit

11 1752CST 0 0 Hail(0.75)

Hockley County
1 S Arnett

11 2030CST 2230CST 0 0 Flash Flood
Portions of Farm-to-Market Road 3261 were closed south of town due to flood waters.

Hockley County
2 NW Locketville

11 2115CST 0 0 250K Hail(1.75)
Hail up to golfball size destroyed crops.

Parmer County
7 N Lazbuddie

12 1545CST 0 0 5K Thunderstorm Wind
Strong thunderstorm winds destroyed a barn.

Cochran County
1 S Lehman

12 1549CST 0 0 40K Hail(0.88)

Cochran County
Morton

12 1606CST 0 0 Hail(1.00)

Castro County
2 NE Dimmitt

12 1615CST 0 0 Thunderstorm Wind (G54) M
The West Texas Mesonet station northeast of town measured 62 mph wind gusts.
### Storm Data and Unusual Weather Phenomena

#### June 2002

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<th>Location</th>
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<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEXAS, South Panhandle</td>
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<td>Castro County</td>
<td>12</td>
<td>1625 CST</td>
<td>0</td>
<td>0</td>
<td>10K</td>
<td>Thunderstorm Wind</td>
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<td>2 N Dimmitt to Dimmitt</td>
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<tr>
<td>Strong thunderstorm winds damaged the roof of city hall, snapped power poles, and blew down trees and power lines.</td>
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<td>Swisher County</td>
<td>12</td>
<td>1700 CST</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G52)</td>
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<td>Happy</td>
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<tr>
<td>An off-duty NWS employee estimated 60 mph thunderstorm wind gusts.</td>
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<tr>
<td>Terry County</td>
<td>12</td>
<td>1743 CST</td>
<td>0</td>
<td>0</td>
<td>100K</td>
<td>Hail(1.00)</td>
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<tr>
<td>3 N Johnson</td>
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<td>Law enforcement officials estimated 70 mph thunderstorm wind gusts.</td>
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<tr>
<td>Terry County</td>
<td>12</td>
<td>1743 CST</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G61)</td>
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<tr>
<td>3 N Johnson</td>
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<tr>
<td>Briscoe County</td>
<td>12</td>
<td>1815 CST</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G54)M</td>
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<td>7 E Silverton</td>
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<tr>
<td>The West Texas Mesonet station east of town measured 62 mph thunderstorm wind gusts.</td>
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<tr>
<td>Terry County</td>
<td>12</td>
<td>1815 CST</td>
<td>0</td>
<td>0</td>
<td>1.5M Hail(1.00)</td>
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<td>Gomez</td>
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<tr>
<td>Quarter size hail destroyed at least 10,000 acres of cotton.</td>
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<tr>
<td>Terry County</td>
<td>12</td>
<td>1818 CST</td>
<td>0</td>
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<td>Hail(1.00)</td>
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<td>Brownfield</td>
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<tr>
<td>Hall County</td>
<td>13</td>
<td>0820 CST</td>
<td>0</td>
<td>0</td>
<td>Hail(0.75)</td>
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<td>Memphis</td>
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<tr>
<td>Lynn County</td>
<td>13</td>
<td>1504 CST</td>
<td>0</td>
<td>0</td>
<td>Hail(1.00)</td>
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<td>6 E New Moore</td>
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<td>An NWS cooperative observer reported quarter size hail in Wells.</td>
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<tr>
<td>Lynn County</td>
<td>13</td>
<td>1614 CST</td>
<td>0</td>
<td>0</td>
<td>75K Hail(0.88)</td>
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<td>1 N Tahoka</td>
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<td>Lynn County</td>
<td>13</td>
<td>1631 CST</td>
<td>0</td>
<td>0</td>
<td>Hail(0.88)</td>
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<td>Tahoka</td>
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<tr>
<td>Lynn County</td>
<td>13</td>
<td>1645 CST</td>
<td>0</td>
<td>0</td>
<td>100K Hail(1.00)</td>
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<td>4 N Odonnell</td>
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<td>Lynn County</td>
<td>13</td>
<td>1655 CST</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G53)M</td>
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<tr>
<td>1 N Odonnell</td>
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<tr>
<td>The West Texas Mesonet station north of town measured 61 mph wind gusts.</td>
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<tr>
<td>Hall County</td>
<td>15</td>
<td>1930 CST</td>
<td>0</td>
<td>0</td>
<td>2K Thunderstorm Wind (G57)</td>
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<td>7 N Lakeview</td>
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<tr>
<td>Strong thunderstorm winds in excess of 60 mph blew down power lines and power poles.</td>
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<tr>
<td>Hall County</td>
<td>15</td>
<td>1940 CST</td>
<td>0</td>
<td>0</td>
<td>5K Thunderstorm Wind</td>
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<td>Newlin</td>
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<tr>
<td>Strong thunderstorm winds destroyed several barns and blew down trees and power lines.</td>
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<tr>
<td>Hall County</td>
<td>15</td>
<td>1944 CST</td>
<td>0</td>
<td>0</td>
<td>2K Thunderstorm Wind (G57)</td>
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<tr>
<td>Memphis</td>
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<tr>
<td>The Memphis Fire Department reported power poles blown down throughout town with estimated 60 to 70 mph wind gusts.</td>
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<tr>
<td>Hall County</td>
<td>15</td>
<td>1945 CST</td>
<td>0</td>
<td>0</td>
<td>50K Hail(1.75)</td>
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<tr>
<td>11 W Estelline</td>
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<tr>
<td>Golfball size hail was reported by the public.</td>
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<tr>
<td>Hall County</td>
<td>15</td>
<td>1945 CST</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G52)</td>
<td></td>
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<tr>
<td>11 W Estelline</td>
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<tr>
<td>Trees were uprooted and blown down by strong thunderstorm winds.</td>
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<tr>
<td>Briscoe County</td>
<td>15</td>
<td>1950 CST</td>
<td>0</td>
<td>0</td>
<td>2K Thunderstorm Wind</td>
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<td>1 N Quitaque</td>
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321
Texas, South Panhandle

Strong thunderstorm winds snapped power poles and blew down large tree limbs and power lines.

Childress County
Carey
15  1955CST  0  0  2K  Thunderstorm Wind
A number of power poles were blown down.

Childress County
(Cds)Childress Arpt
15  1958CST  2001CST  0  0  250K  Thunderstorm Wind (G84)M
The Childress ASOS unit measured sustained wind speeds in excess of 60 mph for several minutes prior to a widespread power outage that occurred in the area at 2001 CST. The peak gust measured at the site prior to the outage was 97 mph. Major damage resulted from these winds on the western side of Childress. A hangar at the airport sustained major damage, many homes were damaged, and numerous trees and power poles were snapped.

Hall County
12 E Turkey
15  2005CST  0  0  10K  Thunderstorm Wind (G61)
Strong thunderstorm winds estimated at 60 to 80 mph blew down a number of power poles, power lines, and trees.

Childress County
Childress
15  2020CST  2030CST  0  0  Hail(0.75)

Motley County
Northfield
15  2020CST  2030CST  0  0  Hail(0.88)

Cottle County
10 E Paducah
15  2026CST  0  0  5K  Thunderstorm Wind
A tractor trailer was blown over by strong thunderstorm winds.

Cottle County
Paducah
15  2040CST  0  0  Thunderstorm Wind (G61)
Storm spotters associated with the Paducah Fire Department estimated 70 mph wind gusts in town.

King County
Guthrie
15  2110CST  0  0  Thunderstorm Wind (G52)
Law enforcement officials estimated 60 mph wind gusts in town.

Cottle County
Cee Vee
15  2120CST  0  0  Hail(0.75)

Cottle County
Cee Vee
15  2120CST  0  0  2K  Thunderstorm Wind
Strong thunderstorm winds blew down power lines, power poles, and trees.

Cottle County
Swearingen
15  2120CST  0  0  Thunderstorm Wind (G57)
Strong thunderstorm winds estimated at 60 to 70 mph were reported at Portwood Ranch.

Floyd County
Floydada
15  2200CST  2220CST  0  0  50K  Hail(1.75)
Law enforcement officials reported golfball size hail.

Floyd County
2 NE Floydada
15  2215CST  0  0  Thunderstorm Wind (G50)M
The West Texas Mesonet station northeast of town measured 58 mph wind gusts.

TXZ033>035-040>042
Cochran - Hockley - Lubbock - Terry - Lynn - Garza
15  2225CST  0  0  High Wind (G74)M
An outflow boundary from severe thunderstorms over the northern and eastern South Plains surged to the west and south into the western and southern South Plains. Pressure rises as this boundary went through a given point were on the order of 4mb/hour. Sustained winds behind the boundary were 40 to 50 mph. Wind gusts to 85 mph, 75 mph, and 64 mph, were measured by the West Texas Mesonet stations located near Graham, Reese Center, and Levelland, respectively.

Dickens County
5 NW Mc Adoo
15  2231CST  0  0  50K  Hail(1.75)
The Dickens County Sheriff's office reported golfball size hail.
TEXAS, South Panhandle

Crosby County
10 S Crosbyton
15 2240 CST
The West Texas Mesonet station 6 miles northwest of White River Lake measured 58 mph thunderstorm wind gusts.

Dickens County
5 W Dickens
15 2245 CST
2250 CST
25K
Hail(1.25)

King County
Guthrie
15 2250 CST
Hail(0.75)

Dickens County
Dickens
15 2254 CST
Hail(1.00)

Dickens County
Spur
15 2300 CST
Hail(0.75)

Stonewall County
Aspermont
15 2300 CST
2K
Thunderstorm Wind

Kent County
Jayton
15 2325 CST
50K
Hail(1.75)
The Kent County Sheriff's office reported golfball size hail.

Lubbock County
Lubbock
26 2342 CST
Thunderstorm Wind (G55)M
A 63 mph thunderstorm wind gust was measured at the NWS forecast office on the south side of town.

Lubbock County
Lubbock
26 2346 CST
Thunderstorm Wind (G51)M
The KCBD television station on the southeast side of town measured a 59 mph wind gust.

Lynn County
1 N Odonnell
27 0005 CST
Thunderstorm Wind (G51)M
The West Texas Mesonet station north of town measured a 59 mph wind gust.

Lynn County
3 NE Tahoka
27 0010 CST
Thunderstorm Wind (G57)M
The West Texas Mesonet station northeast of town measured a 65 mph wind gust.

TEXAS, Southeast

Jefferson County
Countywide
27 0300 CST
1000 CST
5K
Urban/Sml Stream Fld

Orange County
Countywide
27 0300 CST
1000 CST
5K
Urban/Sml Stream Fld

TEXAS, West

Pecos County
Ft Stockton
03 1753 CST
0 0 0 0
Thunderstorm Wind (G50)M
A severe thunderstorm wind gust to 58 MPH was recorded by the Fort Stockton ASOS.

Terrell County
5 NNW Sanderson to 1 W Sanderson
04 1540 CST
1555 CST
Hail(0.75)

Pecos County
25 ESE Ft Stockton
04 1730 CST
Flash Flood
The Texas Department of Transportation relayed a report of high water covering FM2023.
The Texas Mesonet site at Seminole measured a severe thunderstorm wind gust of 87 MPH. The local emergency manager and the local newspaper reported damage in the city of Seminole. Several power poles were blown down. In addition...minor to moderate structural damage was reported to a few buildings. Reports of tree damage were numerous.

Gaines County
2 N Seminole to Seminole
08 1725 CST
0 0 100K 0 Thunderstorm Wind (G76) M
The Texas Mesonet site at Seminole measured a severe thunderstorm wind gust of 87 MPH. The local emergency manager and the local newspaper reported damage in the city of Seminole. Several power poles were blown down. In addition...minor to moderate structural damage was reported to a few buildings. Reports of tree damage were numerous.

Gaines County
2 N Seminole
08 1745 CST
0 0 0 0 Thunderstorm Wind (G54) M
Measured by the Texas Mesonet.

Gaines County
15 NE Seminole
08 1755 CST
0 0 20K 0 Thunderstorm Wind (G61)
Thunderstorm winds destroyed multiple irrigation systems.

Martin County
5 W Tarzan
08 2050 CST
0 0 0 0 Thunderstorm Wind (G61)
Thunderstorm winds broke large limbs out of mesquite trees and blew them across Highway 176. Severe thunderstorms developed across the northern Permian Basin during the afternoon of the 8th. These high based storms resulted in very strong and damaging winds. The Texas Mesonet recorded a gust to 87 mph near Seminole. The Seminole newspaper reported winds over 100 mph in parts of the county...however...the details of the report could not be confirmed.

Pecos County
Belding
09 1540 CST
0 0 40K 0 Thunderstorm Wind (G61)
Local law officials reported that severe thunderstorm winds blew down six power poles, along with destroying half of the roof on a residence.

Gaines County
6 NW Seminole
09 1718 CST
0 0 0 0 Thunderstorm Wind (G52)
Reported by the fire department at the intersection of Texas Highway 214 and County Road 208.

Gaines County
2 N Seminole
09 1725 CST
0 0 0 0 Thunderstorm Wind (G67) M
Severe thunderstorm wind gust recorded by the Texas Mesonet.

Brewster County
Marathon
09 2030 CST
0 0 45K 0 Thunderstorm Wind (G66)
Thunderstorm winds resulted in the downing of three power poles, and the roofs being blown off of three trailer houses.

Brewster County
Marathon
09 2040 CST
0 0 0 0 Hail (1.75)
Dime to golfball size hail was reported by the public. Severe thunderstorms over the western Permian Basin and the Big Bend resulted in reports of large hail and damaging winds. Roof damage was reported to structures, and several power poles were blown down. In the Big Bend, hail to the size of golfballs was reported.

Presidio County
15 S Marfa
10 0400 CST
0 0 0 0 Flash Flood
Local officials reported that Highway 67 was closed due to high water.

Presidio County
15 S Marfa
10 0700 CST
0 0 20K 0 Flash Flood
A local radio station reported that two vehicles were stranded in high water which resulted from flash flooding on Highway 67.

Brewster County
9 E Alpine
10 1800 CST
0 0 0 0 Flash Flood
Local officials reported that high water covered the intersection of Highways 90 and 67 east of Alpine.

Presidio County
12 WNW Shafter
11 2200 CST
0 0 0 0 Flash Flood
A local rancher reported that a farm road was washed out by flash flooding. Flash flooding resulted from persistent heavy thunderstorms over the Big Bend and far southwest Texas. Flash flooding remained a
threat from the early morning hours through the remainder of the day. At least two motorists stalled their vehicles in high water south of the community of Marfa around sunrise.

Brewster County
Panther Junction 11 1915CST 0 0 0 0 Hail(1.75)
Big Bend National Park rangers reported golfball size hail.

Winkler County
Kermit 13 1520CST 0 0 0 0 Hail(1.75)

Dawson County
1 S Lamesa 13 1540CST 0 0 10K 0 Thunderstorm Wind (G61)
The public reported numerous powerlines blown down.

Dawson County
Welch 13 1545CST 0 0 0 0 Hail(1.50)

Dawson County
15 SE Lamesa 13 1615CST 0 0 150K 0 Thunderstorm Wind (G65)
Reports indicated that several houses lost roofs and barns were destroyed. In addition...a couple of semi trucks were blown over on Highway 87.

Martin County
6 N Stanton to Stanton 13 1645CST 0 0 75K 0 Thunderstorm Wind (G61)
Multiple reports of 70 mph thunderstorm winds. Damage reported in Stanton included large trees uprooted, roofs lost on three structures, and a large barn was damaged.

Ward County
Pyote 13 1645CST 0 0 0 0 Hail(1.25)

Midland County
8 S Midland 13 1717CST 0 0 0 0 Thunderstorm Wind (G52)
Reported at the intersection of Highways 1213 and 349.

Pecos County
10 N Ft Stockton 13 1718CST 0 0 0 0 Hail(1.00)

Howard County
12 SW Big Spring 13 1730CST 0 0 30K 0 Thunderstorm Wind (G61)
Spotters reported a semi truck blown over on Interstate 20.

Howard County
12 W Big Spring 13 1730CST 0 0 0 0 Thunderstorm Wind (G61)

Pecos County
8 N Ft Stockton 13 1743CST 0 0 0 0 Hail(0.75)

Pecos County
6 N Ft Stockton 13 1755CST 0 0 0 0 Flash Flood

Pecos County
1930CST 0 0 0 0 Flash Flood
Law officials reported water covering Highway 18.

Pecos County
6 N Ft Stockton 13 1755CST 0 0 0 0 Flash Flood
Law officials reported that flash flooding continued to result in high water covering Highway 18.

Howard County
12 W Big Spring 13 1800CST 0 0 0 0 Flash Flood
Spotters reported water covering Highway 176.

Martin County
8 E Lenorah 13 1800CST 0 0 0 0 Flash Flood
Law official reported high water covering Highway 176.
The local newspaper and the Red Cross reported significant roof damage to fourteen homes and a funeral home. In addition...numerous reports of downed power poles and tree damage were received.
Texas, West

Hail ranging from the size of dimes to ping pong balls was reported in the city of Fort Davis.

- **Culberson County**
  - **20 S Pine Spgs**
    - **Date:** 20
    - **Time:** 1541 CST
    - **Path Length (Miles):** 0
    - **Path Width (Yards):** 0
    - **Persons Killed:** 0
    - **Persons Injured:** 0
    - **Property Damage:** Hail (1.50)

Ping pong ball size hail was reported by the National Park Service 15 miles south of the intersection of Highways 180 and 54 in western Culberson County.

- **Presidio County**
  - **Presidio**
    - **Date:** 20
    - **Time:** 1755 CST
    - **Path Length (Miles):** 0
    - **Path Width (Yards):** 0
    - **Persons Killed:** 0
    - **Persons Injured:** 0
    - **Property Damage:** Hail (0.88)

Hail up to nickel size covered the ground in Presidio.

- **Presidio County**
  - **Presidio**
    - **Date:** 20
    - **Time:** 1935 CST
    - **Path Length (Miles):** 0
    - **Path Width (Yards):** 100K
    - **Persons Killed:** 0
    - **Persons Injured:** 0
    - **Property Damage:** Flash Flood

The Texas Department of Transportation reported flash flooding resulting in high water in homes and businesses...as well as street flooding in the city of Presidio.

- **Presidio County**
  - **6 SE Presidio**
    - **Date:** 20
    - **Time:** 2045 CST
    - **Path Length (Miles):** 0
    - **Path Width (Yards):** 0
    - **Persons Killed:** 0
    - **Persons Injured:** 0
    - **Property Damage:** Flash Flood

The Texas Department of Transportation reported 1.5 feet of water flooding FM170.

- **Culberson County**
  - **Van Horn**
    - **Date:** 21
    - **Time:** 0038 CST
    - **Path Length (Miles):** 0
    - **Path Width (Yards):** 0
    - **Persons Killed:** 0
    - **Persons Injured:** 0
    - **Property Damage:** Hail (0.88)

A severe thunderstorm developed over Culberson County just after midnight local time...resulting in nickel size hail in the city of Van Horn.

Numerous severe storms resulted in large hail and flash flooding across parts of southwest Texas on the 20th. The event persisted into the early morning hours of the 21st...when a severe storm produced large hail in Van Horn.

- **Gaines County**
  - **2 N Seminole**
    - **Date:** 26
    - **Time:** 2330 CST
    - **Path Length (Miles):** 0
    - **Path Width (Yards):** 0
    - **Persons Killed:** 0
    - **Persons Injured:** 0
    - **Property Damage:** Thunderstorm Wind (G50) M

The Texas Mesonet measured two severe wind gusts in the northern Permian Basin from thunderstorms around midnight on the 26th.

- **Dawson County**
  - **2 SE Lamesa**
    - **Date:** 27
    - **Time:** 0020 CST
    - **Path Length (Miles):** 0
    - **Path Width (Yards):** 0
    - **Persons Killed:** 0
    - **Persons Injured:** 0
    - **Property Damage:** Thunderstorm Wind (G50) M

Texas, Western North

- **Baylor County**
  - **4 W Red Spgs**
    - **Date:** 04
    - **Time:** 1755 CST
    - **Path Length (Miles):** 0
    - **Path Width (Yards):** 0
    - **Persons Killed:** 0
    - **Persons Injured:** 0
    - **Property Damage:** Hail (0.88)

Knox County
- **5 E Vera**
  - **Date:** 04
  - **Time:** 1755 CST
  - **Path Length (Miles):** 0
  - **Path Width (Yards):** 0
  - **Persons Killed:** 0
  - **Persons Injured:** 0
  - **Property Damage:** Hail (0.88)

- **Baylor County**
  - **1 W Westover**
    - **Date:** 04
    - **Time:** 1900 CST
    - **Path Length (Miles):** 0
    - **Path Width (Yards):** 0.01K
    - **Persons Killed:** 0
    - **Persons Injured:** 0
    - **Property Damage:** Thunderstorm Wind

Large tree limbs were downed.

- **Clay County**
  - **2 E Bluegrove**
    - **Date:** 04
    - **Time:** 2112 CST
    - **Path Length (Miles):** 0
    - **Path Width (Yards):** 0
    - **Persons Killed:** 0
    - **Persons Injured:** 0
    - **Property Damage:** Hail (0.75)

- **Clay County**
  - **2 S Henrietta**
    - **Date:** 04
    - **Time:** 2118 CST
    - **Path Length (Miles):** 0
    - **Path Width (Yards):** 0
    - **Persons Killed:** 0
    - **Persons Injured:** 0
    - **Property Damage:** Hail (0.88)

Hail was reported near the intersection of FM 2847 and Highway 148.

- **Foard County**
  - **6 NW Crowell**
    - **Date:** 15
    - **Time:** 2030 CST
    - **Path Length (Miles):** 0
    - **Path Width (Yards):** 0
    - **Persons Killed:** 0
    - **Persons Injured:** 0
    - **Property Damage:** Hail (0.75)

- **Foard County**
  - **6 NW Crowell**
    - **Date:** 15
    - **Time:** 2030 CST
    - **Path Length (Miles):** 0
    - **Path Width (Yards):** 0
    - **Persons Killed:** 0
    - **Persons Injured:** 0
    - **Property Damage:** Thunderstorm Wind (G66)

- **Hardeman County**
  - **3 N Chillicothe**
    - **Date:** 15
    - **Time:** 2035 CST
    - **Path Length (Miles):** 0
    - **Path Width (Yards):** 0
    - **Persons Killed:** 0
    - **Persons Injured:** 0
    - **Property Damage:** Thunderstorm Wind (G52)

- **Wilbarger County**
  - **Oklahoma**
    - **Date:** 15
    - **Time:** 2050 CST
    - **Path Length (Miles):** 0
    - **Path Width (Yards):** 0
    - **Persons Killed:** 0
    - **Persons Injured:** 0
    - **Property Damage:** Thunderstorm Wind (G61)
### Storm Data and Unusual Weather Phenomena

**Texas, Western North**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
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<th>Character of Storm</th>
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<tr>
<td>A mobile home was blown over.</td>
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<td>Eight inch diameter tree limbs were downed.</td>
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<tr>
<td>Power poles were downed.</td>
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<tr>
<td>An awning at the HISD building ripped loose and tore a hole in the roof. Debris landed on two vehicles in the parking lot.</td>
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### July 2002

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<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Injured</th>
<th>Property Damage</th>
<th>Crops Damage</th>
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</table>

A line of severe thunderstorms moved rapidly through western and southwest Oklahoma during the evening, before moving through...
TEXAS, Western North

all of western north Texas. The most severe thunderstorms affected areas from near Childress and Quanah, south-southeastward through Crowell, Benjamin, Munday, Seymour, and Archer City. Wind speeds between 80-100 mph were measured or estimated in these areas, with widespread damage occurring. Some hail was also reported.

UTAH, East

UTZ022>025-027>029 Southeast Utah - Eastern Uinta Mountains - Eastern Uinta Basin - Tavaputs Plateau - Grand Flat And Arches - La Sal & Abajo Mountains - Canyonlands / Natural Bridges

01 0000MST 0 0 Drought
30 2359MST

Extreme to exceptional drought conditions prevailed across eastern Utah in June, with a negative impact on agricultural interests and the recreation industry. Most seasonal streams had become dry by early June. The persistent drought increased the potential for major wildfires. See the July 2002 Storm Data publication for a continuation report on the drought in eastern Utah.

Grand County
12 NW Thompson to 17 NW Thompson

20 1500MST 0 0 Wild/Forest Fire
30 2359MST

Lightning ignited a wildfire in a remote area on the Tavaputs Plateau. The fire continued beyond the end of the month. This wildfire was named the Rattle Fire, and was later group named with other wildfires to be known as the Rattle Complex. See the July 2002 Storm Data publication for a continuation of the Rattle Fire report.

Grand County
19 NE Thompson to 21 NE Thompson

22 1500MST 0 0 Wild/Forest Fire
30 2359MST

Lightning sparked a forest fire on the Tavaputs Plateau. This wildfire was named the Diamond Fire. On 06/24/02, this fire was included with the Rattle Fire to be known as the Rattle Fire Complex. The Diamond Fire persisted beyond the month of June. See the July 2002 Storm Data publication for a continuation of the Diamond Fire report.

Grand County
17 NW Thompson to 22 N Thompson

27 1500MST 0 0 Wild/Forest Fire
30 2359MST

Lightning ignited a wildfire on the Tavaputs Plateau which burned beyond the end of the month. The fire was named the Black Canyon Fire, and was included with the Rattle Fire and the Diamond Fire to be known as the Rattle Fire Complex. See the July 2002 Storm Data publication for a continuation of the Black Canyon wildfire report.

UTAH, West and Central

Severe thunderstorms brought strong winds but little rain to portions of Northern and Central Utah. Tree and shingle damage were the rule across the Wasatch Front and West Central deserts. Wind gusts from 60 to 75 mph (52 to 65 kts) were common with the storms, with a peak gust of 85 mph (74 kts) reported at Vernon Hill.

Millard County
Delta

01 1215MST 0 0 2K 2K Thunderstorm Wind (G61) M

Juab County
Nephi

01 1307MST 0 0 5K 0 Thunderstorm Wind (G63) M

Tooele County
Vernon

01 1315MST 0 0 0 0 Thunderstorm Wind (G74) M

Utah County
Payson to Provo

01 1345MST 0 0 0 0 Thunderstorm Wind (G51) M

Salt Lake County
Riverton to Salt Lake City

01 1356MST 0 0 5K 5K Thunderstorm Wind (G62)
1410MST

Wasatch County
Heber City

01 1415MST 0 0 1K 2K Thunderstorm Wind (G60)

Davis County
Kaysville

01 1418MST 0 0 2K 1K Thunderstorm Wind (G56)

Weber County
South Ogden

01 1425MST 0 0 1K 1K Thunderstorm Wind (G63) M

Severe thunderstorms brought strong winds but little rain to portions of Northern and Central Utah. Tree and shingle damage were the rule across the Wasatch Front and West Central deserts. Wind gusts from 60 to 75 mph (52 to 65 kts) were common with the storms, with a peak gust of 85 mph (74 kts) reported at Vernon Hill.
UTAH, West and Central

Box Elder County
Central Portion to Tremonton 02 1300MST
0 0 2K 2K Thunderstorm Wind (G70) M

Tooele County
Tooele 02 1300MST
0 0 0 0 Thunderstorm Wind (G59) M

Cache County
Smithfield 02 1440MST
0 0 1K 1K Thunderstorm Wind (G60)

Duchesne County
Duchesne 02 1540MST
0 0 3K 2K Thunderstorm Wind (G65)
Severe thunderstorm wind gusts knocked down power lines and blew over trees.

UTZ014-016-019 Sanpete/Sevier Valleys - Southwest Utah/Cedar City/Milford - Utah's Dixie And Zion National Park
Sanpete/Sevier Valleys - Southwest Utah/Cedar City/Milford - Utah’s Dixie And Zion National Park 08 1400MST
0 0 0 0 High Wind (G68) M
A dry cold front brought strong and gusty winds to portions of central and southern Utah.

Sevier County
Salina 21 1216MST
0 0 0 0 Dry Microburst
Strong microburst winds moved through Salina early in the afternoon.

Carbon County
Price 21 1840MST
0 0 300K 0 Thunderstorm Wind (G50) M
Severe thunderstorm winds hit the area near Price, with most damage reported in Miller Creek. The strongest recorded wind was 58 mph (50 kts) at the Price Airport. However, 4 miles to the south in Miller Creek, the winds lifted a mobile home off its foundation and destroyed the structure. A roof was torn off another home and onto another, causing heavy damage. A horse was killed by flying debris. A total of 12 houses were damaged, along with a barn and a corral.

Utah County
Pleasant Grove 21 1857MST
1 0 0 0 Dry Microburst
A strong microburst wind resulted in one death in Utah County. The fatality occurred at a baseball park in Pleasant Grove, when a gust of wind blew a 250-pound portable pitching mound over, striking the 13-year-old boy in the head

VERMONT, North and Central

Franklin County
North Portion 05 1846EST
0 0 25K Flash Flood
Low pressure moved across extreme southern Canada. The associated cold front triggered locally heavy thunderstorms during the late afternoon and evening hours across northwest Vermont, especially across the northern half of Franklin county. Flash flooding was reported in an area from the Vermont towns of St Albans to Enosburg to Richford and Montgomery. Road washouts were reported along portions of Route 58 near Montgomery Center. Also, some basement flooding was reported as small streams exceeded their banks.

VTZ002>003-006>007 Franklin - Orleans - Lamolle - Caledonia
Franklin - Orleans - Lamolle - Caledonia 12 0300EST
0 0 95K Flood
A frontal boundary stalled across portions of New York and New England and helped to focus heavy rainfall across this area.
VERMONT, North and Central

Convective precipitation moved from northwest to southeast across the area from Canada. Rainfall from midday on June 11th through midday June 12th averaged 2 to 4 inches with locally higher amounts in the mountainous areas. Countywide flooding of small streams and fields started during the early morning hours of June 12th and continued into the evening of the 12th. A few minor road washouts and a few minor mudslides were reported. This was followed by continued flooding of main stem rivers through late afternoon and evening of June 13th. These main stem rivers were the Passumpsic, Lamoille and Missisquoi Rivers. Flooding of the Passumpsic River resulted in significant flooding, especially in and around the Lyndonville area.

VTZ004 Essex

A frontal boundary stalled across portions of New York and New England and helped to focus heavy rainfall across this area. Convective precipitation moved from northwest to southeast across the area from Canada. Rainfall from midday on June 11th through the early afternoon of June 12th averaged 2 to 4 inches, with locally higher amounts in the mountainous areas. Countywide small stream and field flooding started around mid-morning hours of June 12th and continued into the afternoon of the 12th. In Essex county, flooding isolated Maidstone Lake Park for a short time.

VTZ005 Chittenden

A frontal boundary stalled across portions of New York and New England and helped to focus heavy rainfall across this area. Convective precipitation moved from northwest to southeast across the area from Canada. Rainfall from midday on June 11th through the early afternoon of June 12th averaged 2 to 4 inches, with locally higher amounts in the mountainous areas. Some flooding of small streams and fields started in the late morning and continued into the mid afternoon hours of June 12th.

Grand Isle County

Grand Isle

23 1800EST 1500EST 0 0 1K Thunderstorm Wind

Grand Isle County

North Hero

23 1800EST 1802EST 0 0 Thunderstorm Wind (G52)

Franklin County

St Albans

23 1812EST 1814EST 0 0 1K Thunderstorm Wind

Franklin County

Fairfax

23 1823EST 1825EST 0 0 1K Thunderstorm Wind

Orleans County

Newport

23 1830EST 1833EST 0 0 1K Thunderstorm Wind

Orleans County

Coventry

23 1836EST 1838EST 0 0 1K Thunderstorm Wind

Orleans County

Morgan

23 1841EST 1843EST 0 0 1K Thunderstorm Wind

Chittenden County

Essex Center

23 1855EST 0 0 1K Thunderstorm Wind

Chittenden County

Jericho

23 1900EST 0 0 1K Thunderstorm Wind

Chittenden County

Bolton

23 1905EST 0 0 1K Thunderstorm Wind

A cold front moved southeast from Canada, and triggered thunderstorms during the evening hours. A few storms reached severe criteria. Thunderstorms in North Hero, VT resulted in wind gust to 60 mph (52 kts) while thunderstorm winds blew down trees in the town of Grand Isle, VT.
VERMONT, North and Central

Essex County
Bloomfield
23 1855EST
A cold front moved southeast from Canada, and triggered thunderstorms during the evening hours. A few storms reached severe criteria. Thunderstorms blew down trees in the town of bloomfield.

Lamoille County
Morrisville
23 1856EST
A cold front moved southeast from Canada, and triggered thunderstorms during the evening hours. A few storms reached severe criteria. Thunderstorms blew down trees in Morrisville, VT.

Caledonia County
Hardwick
23 1915EST
Thunderstorm Wind
A cold front moved southeast from Canada, and triggered thunderstorms during the evening hours. A few storms reached severe criteria. Thunderstorms blew down trees and power lines in the towns of Hardwick, Walden and St Johnsbury.

Washington County
Berlin
23 1927EST
Thunderstorm Wind
A cold front moved southeast from Canada, and triggered thunderstorms during the evening hours. A few storms reached severe criteria. Thunderstorms blew down trees and power lines in the towns of Berlin, Barre and Warren.

Orange County
Randolph
23 2010EST
Thunderstorm Wind
A cold front moved southeast from Canada, and triggered thunderstorms during the evening hours. A few storms reached severe criteria. Thunderstorms blew down trees in the Vermont towns of Randolph.

Windsor County
Barnard
23 2040EST
Thunderstorm Wind
A cold front moved southeast from Canada, and triggered thunderstorms during the evening hours. A few storms reached severe criteria. Thunderstorms blew down trees and power lines in the Vermont town of Barnard.

Chittenden County
Colchester
26 1425EST
Thunderstorm Wind
A warm front moved northeast across the region, followed by a warm and humid airmass. Scattered thunderstorms developed during the afternoon of June 26th, and a few of them reached severe criteria. A cluster of thunderstorms in Chittenden county resulted in numerous downed trees and power lines in the Vermont locations of Burlington, Shelburne, Colchester and Essex Junction.

Lamoille County
Morristown
26 1500EST
Thunderstorm Wind
A warm front moved northeast across the region, followed by a warm and humid airmass. Scattered thunderstorms developed during the afternoon of June 26th, and a few of them reached severe criteria. Thunderstorms in Lamoille county resulted in numerous downed trees and power lines in Morristown. In addition, a tree was blown onto a house with structural damage reported.
A warm front moved northeast across the region, followed by a warm and humid airmass. Scattered thunderstorms developed during the afternoon of June 26th, and a few of them reached severe criteria. A thunderstorm in Orleans county resulted in downed trees in the town of Albany.

**Orange County**

**Williamstown**
- Date: June 26th, 1530 EST
- Path Length: 0
- Path Width: 0
- Number of Persons Killed: 0
- Number of Persons Injured: 10K
- Estimated Damage: Thunderstorm Wind

A warm front moved northeast across the region, followed by a warm and humid airmass. Scattered thunderstorms developed during the afternoon of June 26th, and a few of them reached severe criteria. Thunderstorms moved across northern Orange county with numerous trees and power lines blown down in Williamstown.

**Caledonia County**

**East Burke**
- Date: June 26th, 1550 EST
- Path Length: 0
- Path Width: 0
- Number of Persons Killed: 0
- Number of Persons Injured: 5K
- Estimated Damage: Thunderstorm Wind

**Lyndonville**
- Date: June 26th, 1550 EST, 1555 EST
- Path Length: 0
- Path Width: 0
- Number of Persons Killed: 0
- Number of Persons Injured: 5K
- Estimated Damage: Thunderstorm Wind

A warm front moved northeast across the region, followed by a warm and humid airmass. Scattered thunderstorms developed during the afternoon of June 26th, and a few of them reached severe criteria. Thunderstorms in Caledonia county resulted in numerous downed trees and power lines in the Vermont towns Lyndonville and East Burke.

**Addison County**

**Ripton**
- Date: June 26th, 1630 EST
- Path Length: 0
- Path Width: 0
- Number of Persons Killed: 0
- Number of Persons Injured: 5K
- Estimated Damage: Thunderstorm Wind

A warm front moved northeast across the region, followed by a warm and humid airmass. Scattered thunderstorms developed during the afternoon of June 26th, and a few of them reached severe criteria. Thunderstorms moved across Addison county, with trees down in the town of Ripton.

**Windsor County**

**Springfield**
- Date: June 27th, 2030 EST
- Path Length: 0
- Path Width: 0
- Number of Persons Killed: 0
- Number of Persons Injured: 50K
- Estimated Damage: Lightning

A cold front approached the region during the late afternoon and evening from Canada. Showers and thunderstorms developed during the afternoon hours and continued into the evening. Lightning struck and destroyed (fire) a barn and part of an old farmhouse in the Springfield, VT area.

**Caledonia County**

**Walden**
- Date: June 28th, 0430 EST
- Path Length: 0
- Path Width: 0
- Number of Persons Killed: 0
- Number of Persons Injured: 10K
- Estimated Damage: Lightning

A cold front moved slowly through the area on the 28th of June. Early morning thunderstorms in the Walden area resulted in lightning strikes with power outages to about 1200 customers.

**VERMONT, South**

**Bennington County**

**North Bennington**
- Date: June 5th, 2010 EST
- Path Length: 0.2
- Path Width: 100
- Number of Persons Killed: 0
- Number of Persons Injured: 27K
- Estimated Damage: Tornado (F1)

Thunderstorms, that initially developed in New York, and produced a macroburst in extreme eastern New York, moved into southern Vermont during the evening of the 5th. The storms spawned two tornados, one in Woodford Hollow, Bennington County and the other one near Wilmington, Windham County. The first touchdown, one mile north from Route 9, produced a swath 150 yards wide and a path length of one half mile. Many trees, as large as a foot in diameter, were either knocked over or ripped apart. Trees also fell on three automobiles. This tornado was assessed to be a F1 intensity, with winds estimated between 80 and 100 mph.

The second tornado, 4 miles northeast of Wilmington, was even stronger despite a narrower swath of 50 yards. The path length was also about a half mile. This tornado, in addition to blowing some trees down, mostly destroyed a sturdy house on Haynes Road. The garage of the house was blown off its foundation. The family room was ripped off the end of the house, nearly killing the owner. Luckily the owner escaped without any injuries. However, antiques in the attic of the home, as well as numerous other possessions from throughout the house, were spread out for miles downwind, and a propane tank was missing. The winds with this tornado were estimated between 125 and 150 mph. Non-tornadic thunderstorm winds blew some trees down in the town of Pownal. Lightning struck a home in North Bennington causing a very small fire with minimal damage to the structure of the house.

**Bennington County**

**North Bennington**
- Date: June 5th, 2030 EST
- Path Length: 0
- Path Width: 0
- Number of Persons Killed: 0
- Number of Persons Injured: 5K
- Estimated Damage: Thunderstorm Wind

**Windham County**

**Windham**
- Date: June 5th, 2045 EST
- Path Length: 0.1
- Path Width: 150
- Number of Persons Killed: 0
- Number of Persons Injured: 75K
- Estimated Damage: Tornado (F2)

**Bennington County**

**North Bennington**
- Date: June 5th, 2300 EST
- Path Length: 0
- Path Width: 0
- Number of Persons Killed: 0
- Number of Persons Injured: 1K
- Estimated Damage: Lightning

**Bennington County**

**North Bennington**
- Date: June 27th, 1651 EST
- Path Length: 0
- Path Width: 0
- Number of Persons Killed: 0
- Number of Persons Injured: Hail(1.00)

Lightning struck a home in North Bennington causing a very small fire with minimal damage to the structure of the house.
VERMONT, South

Windham County
Brattleboro 27 1730EST 0 0 10K Thunderstorm Wind
Thunderstorms, developing ahead of a cold front, moved into southern Vermont during the late afternoon and early evening of June 27. One cell became severe as it deposited one inch hail in the town of North Bennington, Bennington County. The same storm blew down trees in the town of Brattleboro in Windham County.

VIRGIN ISLANDS

NONE REPORTED.

VIRGINIA, East

Surry County
Surry 01 1700EST 0 0 2K Thunderstorm Wind
Damage to roof of Elk's Lodge.
Norfolk (C)
Norfolk 01 1703EST 0 0 Hail(0.75)
Virginia Beach (C)
Virginia Beach 01 1720EST 0 0 Hail(1.75)
Dime to Golfball size hail between Little Creek and Thoroughgood sections, and west end of Virginia Beach oceanfront.
Fluvanna County
Central Portion 04 1920EST 0 0 3K Thunderstorm Wind
Large trees down on house.
Fluvanna County
Central Plains 04 1925EST 0 0 Hail(1.00)
Fluvanna County
Central Plains 04 1925EST 0 0 2K Thunderstorm Wind
Large trees down at Route 6 and 640.
Cumberland County
Cartersville 04 1950EST 0 0 1K Thunderstorm Wind
Large tree down on Route 45.
Fluvanna County
Palmyra 06 1350EST 0 0 Hail(1.75)
Fluvanna County
Palmyra 06 1350EST 0 0 2K Thunderstorm Wind
Trees down.
Louisa County
5 S Louisa 06 1350EST 0 0 Hail(1.75)
Louisa County
5 S Louisa 06 1350EST 0 0 2K Thunderstorm Wind
Numerous trees down.
Louisa County
Countywide 06 1400EST 0 0 2K Thunderstorm Wind
Trees down.
Amelia County
Morven 06 1430EST 0 0 Hail(1.75)
Lunenburg County
Countywide 06 1500EST 0 0 2K Thunderstorm Wind
Numerous trees down.
### Storm Data and Unusual Weather Phenomena

#### June 2002

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
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<td>Part of roof damaged.</td>
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</tbody>
</table>
VIRGINIA, East

Hampton (C)

Hampton

14 1845EST 1915EST
0 0 Flash Flood
Numerous reports of street flooding. Water shooting out of manhole cover.

Newport News (C)

Newport News

14 1845EST 1915EST
0 0 Flash Flood
Numerous reports of street flooding. Spotter reported 2.5 inches of rain in 45 minutes.

Westmoreland County

Countywide

18 1600EST 1800EST
0 0 Flash Flood
Between 4 and 5 inches of rain fell within 2 hours. Many roads had high water due to the heavy rainfall.

VIRGINIA, Extreme Southwest

Washington County

Abingdon

01 1710EST
0 0 10K Thunderstorm Wind
Trees were reported down in Abingdon.

Bristol (C)

Bristol

02 1538EST
0 0 Hail(0.75)
Dime sized hail reported in Bristol.

Washington County

Oak Grove

02 1541EST
0 0 Hail(0.75)
Dime sized hail reported near the city of Bristol.

Washington County

Glade Spg

02 2030EST
0 0 15K Thunderstorm Wind
Trees and power lines reported down in the Glade Springs area.

VIRGINIA, North

Albemarle County

Crozet

04 1800EST
0 0 Hail(1.75)
Golf ball sized hail dented over 100 cars.

Rockingham County

Mc Gaheysville

04 1800EST
0 0 3K Lightning
Lightning hit a communications tower on Massanutten Peak.

Rockingham County

Grottoes

04 1810EST
0 0 45K Lightning
A barn caught fire after being struck by lightning.

Albemarle County

Free Union

04 1815EST
0 0 Hail(4.50)
Solfball sized hail fell.

Charlottesville (C)

Charlottesville

04 1820EST
0 0 1K Thunderstorm Wind
A few trees were downed. Scattered thunderstorms moved through the central Shenandoah Valley and central foothills during the late afternoon and evening hours of the 6th. The storms contained medium to large sized hail and frequent lightning. In Augusta County, pea sized hail was reported in Mount Sydney. In Rockingham County, a communications tower on Massanutten Peak was damaged by lightning. Near Grottoes, a barn on Scots Ford Road burned to the ground after being struck by lightning. In Albemarle County, golf ball sized hail dented over 100 cars in Crozet.

Shenandoah County

Countywide

05 1445EST
0 0 5K Thunderstorm Wind
Trees were downed in seven locations.
Storm Data and Unusual Weather Phenomena

June 2002

VIRGINIA, North

Winchester (C)

<table>
<thead>
<tr>
<th>Location</th>
<th>Date/Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winchester</td>
<td>05 1500EST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>5K</td>
<td>Thunderstorm Wind</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trees were downed on Apple Pie Ridge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Warren County</td>
<td>05 1558EST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>Hail(0.75)</td>
<td></td>
</tr>
<tr>
<td>Front Royal</td>
<td></td>
<td>Dime sized hail fell.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rappahannock County</td>
<td>05 1600EST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>7K</td>
<td>Hail(1.75)</td>
</tr>
<tr>
<td>Countywide</td>
<td>1700EST</td>
<td>Golfball sized hail damaged many vehicles.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rappahannock County</td>
<td>05 1600EST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>10K</td>
<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>East Portion</td>
<td>1700EST</td>
<td>Fourteen trees were downed and a shed was blown into a field.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rappahannock County</td>
<td>05 1600EST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>6K</td>
<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>1 N Flint Hill</td>
<td>1700EST</td>
<td>Six utility poles were snapped along Route 522.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Warren County</td>
<td>05 1600EST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>12K</td>
<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>Countywide</td>
<td></td>
<td>Most of the county was without power after trees and power lines were downed.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clarke County</td>
<td>05 1645EST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>5K</td>
<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>Countywide</td>
<td></td>
<td>Trees were downed.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Loudoun County</td>
<td>05 1700EST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>7K</td>
<td>Lightning</td>
</tr>
<tr>
<td>Countywide</td>
<td>1800EST</td>
<td>A home in Sterling and Ashburn was damaged by lightning.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Loudoun County</td>
<td>05 1715EST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>3K</td>
<td>Thunderstorm Wind</td>
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<tr>
<td>Countywide</td>
<td>1745EST</td>
<td>Trees were downed.</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Fauquier County</td>
<td>05 1830EST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>7K</td>
<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>North Portion</td>
<td></td>
<td>Trees and power lines were downed.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fairfax County</td>
<td>05 1844EST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>2K</td>
<td>Thunderstorm Wind</td>
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<tr>
<td>Chantilly</td>
<td></td>
<td>Trees were downed.</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Madison County</td>
<td>06 1330EST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>5K</td>
<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>Countywide</td>
<td></td>
<td>Trees were downed.</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Culpeper County</td>
<td>06 1345EST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>Hail(0.75)</td>
<td></td>
</tr>
<tr>
<td>Culpeper</td>
<td></td>
<td>Dime sized hail fell.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

337
VIRGINIA, North

Culpeper County
Richardsville
Quarter sized hail fell.

Prince William County
South Portion
Golfball sized hail fell.

Stafford County
North Portion
Golfball sized hail fell near the Prince William County line.

Fauquier County
Countywide
Trees were downed.

Fairfax County
Pohick
Quarter sized hail fell.

Winchester (C)
Winchester
A tree was downed onto a house.

Augusta County
East Portion
Trees were downed, a barn was damaged, and a twin silo was blown down.

Waynesboro (C)
Waynesboro
Seven trees were downed onto property along Cattle Scales Road.

Clarke County
2 E Berryville
Trees were downed, including one which fell onto a car.

Charlottesville (C)
Charlottesville
Trees were downed. One person was injured when a tree fell onto a car on Old Ivy Road. Two others were seriously injured when a tree fell onto a car on Sherwood Rd.

Loudoun County
Leesburg
Trees and power lines were downed.

Greene County
Countywide
Trees and power lines were downed.

Orange County
Barboursville
A chimney was blown off.

Orange County
Orange
Downed trees closed roads and caused minor structural damage.

Fairfax County
Chantilly
Power lines were downed.

Orange County
1 NE Orange to 2 E Orange
A tornado downed trees and power lines and caused minor roof damage east of Orange.
Scattered thunderstorms with damaging wind gusts moved through the North Piedmont, the central foothills, and Northern Virginia during the afternoon and evening hours on the 6th. In Orange County, a weak F1 tornado touched down one mile northeast of the town of Orange. It uprooted trees and damaged a garage along its rural path. The tornado traveled approximately one mile to the east-southeast before lifting near Route 20 east of Orange. The tornado was 100 yards wide and was on the ground for one mile. Additional wind damage in and around the town of Orange including downed trees and power lines was caused by straight line winds. In Locust Grove, a convenience store lost its tin roof after high winds blew through. In the Lake of the Woods community, a downburst of winds estimated at 70 MPH caused at least one hundred trees and some power lines to be blown over. One man was injured when the roof of his house on Monticello Circle collapsed when a tree fell onto it. A total of 6 homes and a handful of cars in the community were damaged by fallen trees. Trees were also downed onto Route 20. In Barboursville, a chimney was blown over by high winds. In Spotsylvania County, a man was injured when high winds pushed three trees onto his car on Hill-Ewell Drive about 2 miles south of Wilderness. He survived by ducking under the dashboard before the trees hit the pickup. Hill-Ewell Drive remained closed for several days due to nearly 100 downed trees. Numerous trees were also downed in the Lake Wilderness community. Twelve homes in the community were damaged by felled trees, including one which sustained $40,000 damage. Portions of the nearby Fredericksburg-Spotsylvania National Military Park were closed for two weeks due to the amount of felled trees. Removal of debris was estimated to cost $60,000.

In Culpeper County, quarter sized hail fell in Richardsville and dime sized hail was reported in Culpeper. Funnel clouds were also reported near Eggbornsville, Cherry Hill, and Elkwood. In Fairfax County, quarter sized hail fell in Pohick Bay. In Chantilly power lines were downed. In Stafford County, golf ball sized hail was reported near the Prince William County line. In Prince William County, a wind gust of 54 MPH was recorded at the Manassas Airport. The southern portion of the county received pea to golf ball sized hail. In Faquier County, trees were downed. In Augusta County, trees were downed in Fishersville, Crimora, and at the intersection of Route 250 and Interstate 81. A twin silo was blown over near Fishersville. In Hermitage, part of a barn roof was removed on Hildebrand Church Road. Trees were uprooted onto a garage and car near Route 254. Another tree fell onto a car on Sherwood Road, seriously injuring two people. Park Street was blocked by downed trees and power lines. In Greene County, trees and power lines were downed. In Frederick County, a tree was downed onto a home in Winchester. In Loudoun County, trees and power lines were downed on the west side of Leesburg. A wind gust of 54 MPH was recorded at the Leesburg Airport. In Clarke County, there was scattered damage from fallen trees. Near Berryville on Bishop Meade Road, a large tree fell onto a van. On Senseny Road, a tree limb fell onto power lines.
A tree was downed onto Route 621. Scattered thunderstorms with high winds and heavy rainfall moved through Northern Virginia, the Central Foothills, and the Northern Piedmont during the afternoon and evening of the 13th. In King George County, trees and power lines were downed in Dahlgren between Route 218 and the Naval Surface Weapons Center. In the northern portion of Stafford County, winds knocked down trees and power lines onto routes 610, 627, 643, 628, and 630. A wind gust of 54 MPH was recorded in Stafford where a chimney was blown down. At the intersection of Route 610 and Shelton Shop Road, two homes were damaged by downed trees. The intersection of Route 1 and Route 610 was flooded by up to 1 ½ of water due to very heavy downpours. In Spotsylvania County, high winds knocked down trees and power lines across the city of Fredericksburg. Officials reported up to 35 downed trees and a spotter just east of town reported a wind gust of 45 MPH. A 2 foot diameter tree damaged two homes. Another home built in 1873 lost 1/3 of its roof and its chimney to high wind. In Fairfax County, pea to marble sized hail fell in Vienna. In Orange County trees were knocked down at the intersection of Route 522 and 20 in Unionville. Near Mine Run, winds measured at 45 MPH downed a tree onto Route 621. In Greene County, trees were downed across roads in Ruckersville.

Several roads were closed due to flooding, especially in the Dyke area.

In Fauquier County 4 miles east of Warrenton, golf ball sized hail fell. In Albemarle County, several downed trees blocked roads in Charlottesville. Hail of unknown size fell in Earlysville. Flooding was reported in the northern portion of the county. In Fairfax County, trees were downed in Oakton and pea sized hail fell in Reston.

Scattered thunderstorms with large hail, high winds, and heavy downpours moved through Northern Virginia and the Central Foothills during the evening of the 18th. In Greene County, nickel sized hail fell in Standardville and quarter sized hail fell in Dyke. Also in Dyke, several roads were closed due to flooding. In Culpeper County, a spotter in Jeffersonton reported golf ball sized hail. In Fauquier County 4 miles east of Warrenton, golf ball sized hail fell. In Albemarle County, several downed trees blocked roads in Charlottesville. Hail of unknown size fell in Earlysville. Flooding was reported in the northern portion of the county. In Fairfax County, trees were downed in Oakton and pea sized hail fell in Reston.

A wildfire burned at least 800 acres between Rocktop Trail and Big Run in Shenandoah National Park. A lightning strike on the afternoon of the 22nd started a wildfire about 6 miles east of Port Republic in Rockingham County. The wildfire burned at least 800 acres between Rocktop Trail and Big Run in Rockingham County before being brought under control on the 27th. The fire was able to spread to such a large area because of drought conditions and ample dry brush.

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Character of Storm</th>
<th>Time</th>
<th>Path (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons</th>
<th>Estimated Damage</th>
<th>Property Damage</th>
<th>Crops Damage</th>
<th>Character of Storm</th>
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<tr>
<td>Greene County</td>
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<td>Hail(0.88)</td>
<td>1903EST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1K</td>
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<td>Standardsville</td>
<td></td>
<td>Nickel sized hail</td>
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<td></td>
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<td></td>
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<td>Hail(1.00)</td>
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<tr>
<td>Dyke</td>
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<td>Quarter sized hail.</td>
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<td>Hail(1.75)</td>
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<td>0</td>
<td>0</td>
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<tr>
<td>Jeffersonton</td>
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<td>Golfball sized hail.</td>
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<td></td>
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<tr>
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<td>Southwest Portion</td>
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<td>2130EST</td>
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<tr>
<td>Fauquier County</td>
<td>18</td>
<td>Hail(1.75)</td>
<td>2040EST</td>
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<td>0</td>
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<td></td>
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<tr>
<td>4 E Warrenton</td>
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<td>Golfball sized hail.</td>
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<td>0</td>
<td>0</td>
<td>1K</td>
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<td></td>
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</tr>
<tr>
<td>Oakton</td>
<td></td>
<td>Trees were downed.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Albemarle County</td>
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<td>2110EST</td>
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<td>0</td>
<td>0</td>
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<td></td>
<td></td>
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<td>Charlottesville  (C)</td>
<td>18</td>
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<td>2120EST</td>
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<td>0</td>
<td>0</td>
<td>5K</td>
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<td></td>
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<tr>
<td>Charlottesville</td>
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<td>Trees were downed.</td>
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<td>6 E Port Republic</td>
<td>27</td>
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<td>1700EST</td>
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<td>25</td>
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<td>1725EST</td>
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<td>0</td>
<td>5K</td>
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<td></td>
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<tr>
<td>Northeast Portion</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Storm Data and Unusual Weather Phenomena

June 2002
A thunderstorm with damaging winds moved across Shenandoah County on the evening of the 25th. Trees were downed in the northeastern portion of the county.

**Arlington County**

- **Arlington**
  - **Date**: 27/06/2002
  - **Time**: 17:40 EST
  - **Character of Storm**: Thunderstorm Wind
  - **Damage**: 5K
  - **Description**: Trees and power lines were downed.

- **Alexandria**
  - **Date**: 27/06/2002
  - **Time**: 17:45 EST
  - **Character of Storm**: Thunderstorm Wind
  - **Damage**: 5K
  - **Description**: A thunderstorm moved through Arlington and Alexandria during the afternoon of the 27th. In Arlington, high winds knocked down trees. Pea sized hail was reported at Reagan National Airport. In Alexandria, trees and power lines were downed. In Fairfax County, pea sized hail was reported in Vienna.

**VIRGINIA, Northwest**

**Buchanan County**

- **Big Rock**
  - **Date**: 04/06/2002
  - **Time**: 17:50 EST
  - **Character of Storm**: Thunderstorm Wind
  - **Damage**: 1K
  - **Description**: Large trees and branches were blown down.

**VIRGINIA, Southwest**

- **Giles County**
  - **Mountain Lake**
    - **Date**: 01/06/2002
    - **Time**: 12:50 EST
    - **Character of Storm**: Hail(0.75)
    - **Damage**:

- **Montgomery County**
  - **Christiansburg**
    - **Date**: 01/06/2002
    - **Time**: 13:30 EST
    - **Character of Storm**: Hail(0.75)
    - **Damage**:

- **Roanoke (C)**
  - **Roanoke**
    - **Date**: 01/06/2002
    - **Time**: 13:30 EST
    - **Character of Storm**: Hail(0.88)
    - **Damage**:

- **Danville (C)**
  - **Danville**
    - **Date**: 01/06/2002
    - **Time**: 14:25 EST
    - **Character of Storm**: Thunderstorm Wind
    - **Damage**:

- **Grayson County**
  - **4 NW Fries**
    - **Date**: 04/06/2002
    - **Time**: 13:50 EST
    - **Character of Storm**: Hail(0.88)
    - **Damage**:

- **Carroll County**
  - **2.5 NW Galax City**
    - **Date**: 04/06/2002
    - **Time**: 14:20 EST
    - **Character of Storm**: Thunderstorm Wind
    - **Damage**:

- **Carroll County**
  - **2.5 NE Galax City**
    - **Date**: 04/06/2002
    - **Time**: 14:30 EST
    - **Character of Storm**: Hail(0.75)
    - **Damage**:

- **Carroll County**
  - **2.5 NE Galax City**
    - **Date**: 04/06/2002
    - **Time**: 14:30 EST
    - **Character of Storm**: Thunderstorm Wind
    - **Damage**:

- **Carroll County**
  - **Fancy Gap**
    - **Date**: 04/06/2002
    - **Time**: 14:40 EST
    - **Character of Storm**: Lightning
    - **Damage**:

- **Montgomery County**
  - **Blacksburg**
    - **Date**: 04/06/2002
    - **Time**: 15:12 EST
    - **Character of Storm**: Hail(0.75)
    - **Damage**:

- **Botetourt County**
  - **Cloverdale**
    - **Date**: 04/06/2002
    - **Time**: 15:15 EST
    - **Character of Storm**: Hail(1.00)
    - **Damage**:

- **Montgomery County**
  - **Blacksburg**
    - **Date**: 04/06/2002
    - **Time**: 15:19 EST
    - **Character of Storm**: Hail(0.88)
    - **Damage**:

- **Botetourt County**
  - **3 E Cloverdale**
    - **Date**: 04/06/2002
    - **Time**: 15:27 EST
    - **Character of Storm**: Hail(0.88)
    - **Damage**:

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Thunderstorms during the afternoon and evening of the 4th produced damaging wind, dangerous lightning, and hail up to half dollar size. Thunderstorm winds downed trees from Saltville to 5 miles northeast of Saltville, 2.5 miles northwest of Galax, large tree limbs 2.5 miles northeast of Galax, and trees and power lines in Lynchburg with large sections of the city losing power for several hours.

A man in Fancy Gap was struck by lightning, but not seriously injured.

Thunderstorm winds during the evening of the 5th downed several trees in Blacksburg.
VIRGINIA, Southwest

Patrick County
Woolwine 06 1600EST 0 0 Hail(0.75)
Franklin County
Henry Fork 06 1620EST 0 0 0 Thunderstorm Wind
Franklin County
Gladehill 06 1630EST 0 0 Hail(0.88)
Franklin County
2.5 E Henry Fork 06 1635EST 0 0 10K Thunderstorm Wind
Pittsylvania County
Gretna 06 1655EST 0 0 10K Thunderstorm Wind

Thunderstorms during the afternoon of the 6th produced damaging winds and hail up to nickel size.

Thunderstorm winds downed trees in Henry Fork, onto Route 60, 5 miles east of Dillwyn, onto vehicles in Gretna, and trees and power lines in Marion.

Thunderstorm winds also tore the roof off of a barn, onto the side of a house, 2.5 miles east of Henry Fork.

Montgomery County
Blacksburg 24 1827EST 0 0 Hail(0.75)
Montgomery County
Blacksburg 24 1827EST 0 0 Thunderstorm Wind (G60) M
Montgomery County
Merrimac 24 1910EST 0 0 Flash Flood

A thunderstorm during the evening of the 24th produced a wind gust to 60 mph and dime size hail in Blacksburg. In addition, the storm produced flash flooding on Merrimac Road in Merrimac.

Rockbridge County
4 NE Glasgow 27 1430EST 0 0 0 Thunderstorm Wind
Amherst County
Amherst 27 1455EST 0 0 0 Thunderstorm Wind
Pittsylvania County
Blairs 27 1620EST 0 0 0 Thunderstorm Wind

Thunderstorms during the afternoon of the 27th produced damaging winds

Thunderstorm winds downed a large tree in Blairs, trees and power lines 4 miles northeast of Glasgow, and large tree limbs in Amherst.

WASHINGTON, Northeast

Asotin County
4 W Clarkston 26 1910PST 0 0 5K Thunderstorm Wind

A severe thunderstorm moving off the Blue Mountains blew over power poles.

WASHINGTON, Northwest

Thurston County
Lacey 07 1430PST 0 1 Lightning

A 17 year old was struck by lightning while he was working outside. He sustained minor burns, some hearing loss and a headache. The tree next to him was stripped of its bark.

Pierce County
6 NW Gig Harbor 18 1230PST 1231PST 0 0 Funnel Cloud

A funnel cloud was sighted in the Gig Harbor area.
WASHINGTON, Southeast

WAZ027 Yakima Valley
    07 1620PST 0 0 Dust Storm
    Dust storm produced zero visibility near Granger, which resulted in a multi-vehicle accident. There were four injuries and about $5,000 damage to vehicles from the accident.

WAZ028 Lower Columbia Basin
    09 1300PST 1500PST 0 0 0.50K High Wind
    High winds caused a tree to fall onto a truck and motor home in West Richland.

Yakima County
    Lightning knocked out power to 4,000 customers in Yakima. The storms produced hail and flooding on some intersections.

Walla Walla County
    Lightning caused fire blackened 2,000 acres of grass and wheat.

WAZ029 Blue Mountain Foothills
    27 0130PST 0310PST 0 0 High Wind (G37)
    High winds caused downed power lines in Walla Walla and Waitsburg.

WASHINGTON, Southwest

NONE REPORTED.

WEST VIRGINIA, East

Berkeley County
    Arden 04 1834EST 0 0 Hail(0.75)
    Dime sized hail fell.

Berkeley County
    Arden 04 1834EST 0 0 0.10K Thunderstorm Wind
    A tree was downed.

Hardy County
    Wardensville 04 1840EST 0 0 Hail(1.75)
    Golfball sized hail fell.
    Scattered thunderstorms moved through the Eastern Panhandle during the evening of the 4th. In Hardy County, golf ball sized hail fell in Wardensville. In Berkeley County, dime sized hail fell and a tree was reported down along Interstate 81 near Arden. In Grant County, hail of unknown size fell in Bayard.

Berkeley County
    Countywide 05 1530EST 1600EST 0 0 15.5K Thunderstorm Wind
    Trees and telephone poles were downed onto roads and houses.
    A severe thunderstorm hit Berkeley County during the late afternoon of the 5th. In Mountain View and Inwood, a tree fell onto a house. Hail of unknown size also fell in Inwood. In Martinsburg, trees and power lines were downed. The most widespread damage was reported in the Bunker Hill area. Several trees were uprooted and nine telephone poles were snapped off along Three Run Road and Aspen Drive. One tree fell onto a home and tore a hole in the roof. A total of 2600 county customers lost power as a direct result of the storm.

Berkeley County
    Countywide 06 1540EST 1600EST 0 0 7K Thunderstorm Wind
    Extensive tree damage and minor structural damage was reported.

Jefferson County
    Charles Town 06 1600EST 0 0 2K Thunderstorm Wind


Storm Data and Unusual Weather Phenomena

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Killed</th>
<th>Number of Injured</th>
<th>Estimated Damage Property</th>
<th>Crops</th>
<th>Character of Storm</th>
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<tr>
<td>Yakima Valley</td>
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<td>07 1620PST</td>
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<td>Lower Columbia Basin</td>
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<td>Yakima</td>
<td>10</td>
<td>1500PST 1900PST</td>
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<td>10 N Touchet</td>
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</tbody>
</table>

June 2002

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

344
WEST VIRGINIA, East

Trees were downed.

Jefferson County
Countywide

06 1600EST 0 0 5K Thunderstorm Wind
Power lines were downed.
A thunderstorm with high winds moved through the far Eastern Panhandle between 4 and 6 PM EDT on the 6th. In Berkeley County, extensive tree damage was reported along Sulphur Spring Drive in Inwood. A construction trailer nearby was overturned and a building under construction suffered damaged scaffolding and siding. Trees were also downed in the community of Berkeley. Power outages occurred in Martinsburg. In Jefferson County, trees were downed in and around Charles Town. Power lines were downed countywide.

Berkeley County
East Portion

13 1400EST 1800EST 0 0 Heavy Rain
Up to 3 inches of rain caused flooding in Inwood. The time was estimated.
Thunderstorms with heavy rainfall moved through Berkeley County during the afternoon of the 13th. Radar estimated as much as 3 inches of rain fell in the southeast portion of the county. An observer in Falling Waters recorded a total of 1.87 inches. Several cars were stranded on Route 51 near the intersection of Route 11 in Inwood when up to 3 feet of water covered the road.

WEST VIRGINIA, North

Marshall County
Glendale

04 0030EST 0630EST 0 0 50K Flood
Heavy thunderstorm rains of over 1.5 inches in one hour produced flooding across the northwest corner. These heavy rains forced Middle Grave Creek out of its banks. Six county roads, most in the Glendale and Cameron area, were closed by the high waters. Emergency management officials also reported basement flooding in several homes in the McMechen area.

Marshall County
Moundsville

04 1540EST 0 0 Hail(0.88)

Marshall County
4 S Moundsville

04 1640EST 0 0 2K Thunderstorm Wind
Thunderstorm winds downed a few trees and power lines.

Marshall County
Countywide

06 1200EST 1530EST 0 0 50K Flood
Another round of heavy thunderstorm rains forced already-swollen creeks and streams out of their banks across the county. North Fork Creek, Harts Run, Wolf Run, Big Grave and Little Grave Creeks were all reported out of their banks by emergency management officials, flooding local roadways. Basement flooding was also reported in the McMechen area.

Brooke County
Bethany

14 1752EST 0 0 2K Thunderstorm Wind
Thunderstorm winds downed a few large trees.

WEST VIRGINIA, Southeast

Mercer County
Princeton

04 2045EST 0 0 Hail(1.00)
Thunderstorms during the evening of the 4th produced hail up to quarter size.

Greenbrier County
Renick to Anthony

06 1410EST 1425EST 0 0 50K Thunderstorm Wind
Thunderstorm winds during the afternoon of the 6th downed trees from Renick to Anthony. Some vehicles and roofs were damaged by the fallen trees.

Mercer County
Bluefield

16 1630EST 0 0 0.50K Lightning
A thunderstorm during the afternoon of the 16th produced lightning that struck a tree, causing part of it to explode and shatter a car windshield.
## WEST VIRGINIA, West

<table>
<thead>
<tr>
<th>Location</th>
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<th>Path Width (Yards)</th>
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<th>Character of Storm</th>
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<td>5K</td>
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<td>Thunderstorm Wind</td>
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</table>

Homes were not affected, but streams overflowed into yards and across roads. The flooding was compounded by debris, still in the streams from the severe flooding in May.

Yards and roads flooded along Rockhouse Fork and Lick Creek. Homes were not flooded. Rains of 1.5 to 2 inches fell over saturated slopes.

Three men, working on a vehicle, were slightly injured. One was thrown about 10 feet.

Large trees fell across roads.

Large trees and branches fell across roads.

Rains of 2 to 3 inches caused minor flooding in the Grafton to Webster vicinity. The most damage was caused by runoff, clogged culverts and basement drain backups. Thirteen homes were affected and 3 businesses. The Anna Jarvis Visitor Center also received water damage from Berkeley Run.

Large tree branches were blown down along roads.

Scattered locations throughout the county had large branches or power lines blown down.

## WISCONSIN, Extreme Southwest

NONE REPORTED.
A trailer park in Stratford (Marathon co.) had to be evacuated due to high water, and basements were flooded in some homes in central Wisconsin. Several bridges were out due to the flooding and roads were washed out in numerous locations. One township in Marathon county had 40 miles of roads that needed to be resurfaced. Waushara county suffered extensive damage to corn, potato, bean, carrot and pea crops.

Lightning started a fire that caused minor damage to a factory in Two Rivers (Manitowoc co.).
Porterfield and 4.35 inches of rain was reported in Crivitz, all in about 5 hours.

Lightning from the storms struck a tree at a scout camp on Crystal Lake (Oneida co.) and traveled through the ground, injuring two 13 year old boys in their tent. One of the boys suffered serious burns and blurred vision. The other boy suffered less severe burns.

Runoff from heavy rains on the night of the 23rd caused a swamp in the northwest part of Crivitz to flow over its banks. The high water persisted for several days and some businesses and roads through town had to be sandbagged to keep the water out. Part of U.S. highway 141 had to close due to high water and some homes in the area experienced basement flooding.

Runoff from heavy rain that fell in northeast Wisconsin a day earlier caused minor flooding on the Peshtigo river at Porterfield.

A line of thunderstorms that developed in very unstable air across Minnesota and northwest Wisconsin moved into central and north-central Wisconsin during the evening. The storms dropped some large hail and also produced strong winds that downed numerous trees.

Trees were blown down.

Numerous trees were blown down at Ghost Lake boat landing. Boat trailers and cars were damaged by falling trees.

Falling trees downed power lines.
### Storm Data and Unusual Weather Phenomena

**Location** | **Date** | **Time** | **Character of Storm**
--- | --- | --- | ---
Wisconsin, Northwest

- **Washburn County**
  - **5 SE Sarona**
    - 25 1938CST
    - Trees were blown down.
  - **Sawyer County**
    - **Exeland**
      - 25 2005CST
      - Fifty-two to sixty-one knot winds blew down numerous trees.
  - **Iron County**
    - **Hurley**
      - 25 2015CST
      - Numerous trees were blown down.
  - **Price County**
    - **Phillips**
      - 25 2100CST
      - Trees were blown down.

Wisconsin, Southeast

- **Sauk County**
  - **Spring Green**
    - 03 0415CST

- **Dane County**
  - **Springfield Corners**
    - 03 0500CST 0700CST

- **Dane County**
  - **Stoughton**
    - 03 0540CST

- **Milwaukee County**
  - **Milwaukee to Brown Deer**
    - 03 0600CST 0800CST

- **Waukesha County**
  - **Menomonee Falls**
    - 03 0600CST

- **Walworth County**
  - **2.5 NNE East Troy**
    - 03 0640CST

- **Kenosha County**
  - **Twin Lakes to Kenosha**
    - 03 0655CST 0725CST

- **Racine County**
  - **Burlington to Racine**
    - 03 0655CST 0725CST

- **Racine County**
  - **5 NW Sturtevant**
    - 03 0700CST

- **Racine County**
  - **Sturtevant**
    - 03 0709CST

- **Kenosha County**
  - **Kenosha**
    - 03 0715CST

- **Rock County**
  - **2 E Avalon**
    - 03 0802CST

- **Walworth County**
  - **2 SE Fontana**
    - 03 0825CST

- **Dane County**
  - **Fitchburg**
    - 03 0830CST

- **WIZ071>072**
  - **Racine - Kenosha**
    - 03 0855CST 0955CST

<table>
<thead>
<tr>
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Three lines of severe thundrestorms moved east-southeast across south-central and southeast Wisconsin. The last line was the...
Wisconsin, Southeast

Strongest of the three. Damaging, straightline winds were the most common type of severe weather, although some large hail stones were spotted. Brief, torrential downpours accompanied some of the storms, especially in the counties of Dane, Racine and Kenosha. The toppled trees pulled down power lines near Fontana (Walworth Co.), and across much of Racine and Kenosha counties. The Racine Wastewater Treatment Plant registered a peak northwest wind gust of 58 kts (67 mph). In the cities of Sturtevant (Racine Co.) and Racine, 4 vehicles and 2 garages were damaged or destroyed due to felled trees. On another Racine home, the wind blew an old chimney down. At least another 4 homes in Racine had some gutter or siding damage. In Sturtevant, a flat pole was bent 45 degrees, and a stored pontoon boat was flipped over. A covered wagon in Kansassville (Racine Co.) was damaged when the thunderstorm winds blew it over. Roof shingles were ripped off several homes in the city of Kenosha. One Kenosha home had a large tree fall on its roof, damaging the chimney, gutters, and wood trim. A large yacht was blown off its pier and into a fence near the Lake Michigan shoreline in downtown Kenosha, but sustained only minor damage. Lightning struck an apartment building in Stoughton (Dane Co.), starting a fire that left $20,000 in damage. In Fitchburg (Dane Co.), lightning struck a home and traveled down a pipe to the basement where a small fire started in a rubbish bin. Rainfall amounts of 1 to 2 inches generated some small stream flooding that pushed water over the roads in Springfield Corners (Dane Co.). Up to 3.5 inches of rain fell in Menomonee Falls (Waukesha Co.) resulting in urban flooding, which extended east across northern Milwaukee County where 2 to 3 inches fell. Several roads in northern Milwaukee County had water up to 12 to 18 inches deep. Heavy rains in Racine County lead to hydroplaning problems on Interstate 94 where a semitrailer truck jack-knifed and rolled over at about 0730 CST.

A wake-low developed over southeastern Wisconsin on the west side of the 3rd line of storms, after it had moved east to over Lake Michigan. The pressure gradient between the thunderstorm-induced mesohigh over Lake Michigan and the wake low in the vicinity of Madison to Whitewater generated a high wind event over the eastern parts of the counties of Racine and Kenosha. Southeast winds gustied to 50 knots (58 mph) at the GLERL observation site on the shore of Lake Michigan in downtown Kenosha at 0900 CST, and were equal to or greater than 35 kts (40 mph) between 0855 and 0955 CST. Numerous trees were pushed down by the high winds, and a greenhouse on the UW-Parkside campus sustained window damage. Gusty southeast winds to 30 to 43 knots (35 to 50 mph) were noted over the remainder of southeast and south-central Wisconsin south of Interstate 94 and east of Interstate 90, resulting in many small branches breaking off of trees. The combination of severe thunderstorms followed by high winds resulted in 18,000 customers losing electrical power in the counties of Racine and Kenosha. About 200 lines were down either due to the winds or lightning.

### Lafayette County

**Lafayette County**

**3 E Darlington to 3 SE Darlington**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
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<td>0</td>
<td>5K</td>
<td>Flash Flood</td>
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</table>

Torrential rains associated with slow-moving thunderstorms, resulted in some gravel shoulder washouts near a bridge on State Highway 81 east of Darlington. The road was blocked off as a precautionary measure due to high water levels on the local river. There were several reports of mud and gravel washed down from driveways onto roads in the Darlington area east to Green County. The Darlington Wastewater treatment plant measured 3.97 inches of rain during the morning and early afternoon hours. Further southeast in Monroe (Green Co.), the treatment plant in that city measured 3.62 inches, but luckily no flooding problems were noted.

### Racine County

**Racine**

<table>
<thead>
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<th>Location</th>
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<td>0</td>
<td>5K</td>
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Lightning struck near an unoccupied home in the central part of the city of Racine and traveled through power lines into the home. The homes siding and electrical wiring were damaged.

### Rock County

**Rock County**

**3.5 SE Clinton**

<table>
<thead>
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<th>Date</th>
<th>Time Local/Standard</th>
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<td>10</td>
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<td>Thunderstorm Wind (G56)</td>
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**Walworth County**

**Sharon to Walworth**

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**Rock County**

**2 E Edgerton**

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<th>Path Width (Yards)</th>
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<th>Estimated Damage Crops</th>
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**Jefferson County**

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**Milwaukee County**

**Milwaukee**

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**Milwaukee County**

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### Storm Data and Unusual Weather Phenomena

<table>
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<th>Path Width (Yards)</th>
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Scattered, evening, severe thunderstorms with damaging straight-line winds and large hail developed over parts of south-central and southeast Wisconsin. The powerful winds toppled trees which pulled down power lines. In addition, brief, torrential rainfalls resulted in urban flooding on the southwest side of the city of Milwaukee around 76th and Oklahoma, where water was 10 inches deep on roads. About 4,000 homes in Jefferson and Milwaukee counties lost electrical power due to downed lines or lightning hits.

Numerous large trees were uprooted by a very localized, wet-microburst as a cluster of severe storms moved east-southeast across Dane County. The pulse-type storms quickly diminished in strength after moving out of the northwest part of Dane County.

Scattered severe thunderstorms moved through southeast Wisconsin dumping large hail. The ground was covered white around Timmerman Field on the northwest side of the city of Milwaukee.

Several large trees were toppled by powerful straight-line winds as an isolated severe thunderstorm moved through Dane County.

A brief, one day heat wave affected parts of southeast Wisconsin, resulting in the death of a 38-year-old male in the city of Milwaukee. After several days with maximum temperatures in the 50s, 60's and 70's, the heat on June 20th was sudden enough to affect humans. Milwaukee Mitchell Field registered a high of 90 and a minimum of 72, about 13 to 15 degrees above normal. Similar readings were noted elsewhere in southeast Wisconsin. Heat indices were 95 to 100, thus this heat wave didn't meet the official criteria for a heat wave. Full sunshine and southwest winds of 15 to 25 mph were also observed.

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<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
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Dodge County
1 W Fox Lake 21 1725 CST 0 0 Thunderstorm Wind (G65)
Dodge County
2 SW Fox Lake 21 1745 CST 0 0 Thunderstorm Wind (G56)
Sauk County
Rock Spgs 21 1748 CST 0 0 Hail (0.75)
Columbia County
4 N Pardeeville 21 1810 CST 0 0 Hail (0.75)

Short lines or clusters of severe thunderstorms moved southeast across parts of south-central and southeast Wisconsin, producing downbursts of straight-line winds and large hail. Just west of Fox Lake (Dodge Co.), the powerful winds demolished a shed and blew it onto a road. Southwest of Fox Lake the winds blew down county road signs. On the Milwaukee-Sullivan WSR-88D Doppler radar system, a decent mesocyclone was evident with a thunderstorm that moved southeast across the far northwest part of Columbia County into northwest Dodge County. The lack of low level boundaries ahead of this storm may have played a part in diminishing the lower atmosphere's ability to spin up into a tornado.

Green Lake County
5 W Fairburn to 5 N Princeton 22 0300 CST 0 0 10K Flash Flood
Marquette County
5.5 WSW Neshkoro 22 0300 CST 0 0 10K Flash Flood

At least 3 lines of thunderstorms with heavy rains sagged south into the northern parts of Marquette and Green Lake counties during the overnight hours. Individual thunderstorm cells trained west to east, ultimately resulting in flash flooding which caused gravel shoulder washouts on some roads as well as road closures. WSR-88D Doppler radar estimated that 5 to 6 inches of rain fell between 2100 CST on August 21st through about 0300 CST on August 22nd. Further north, 8 to 15 inches were reported in parts of Juneau, Adams, Waushara, Wood, and Portage counties! Refer to the StormData reports produced by WFO La Crosse and WFO Green Bay for detailed flash flood information for central and northeastern Wisconsin, respectively.

Wisconsin - Ozaukee - Jefferson - Waukesha - Milwaukee - Rock - Walworth - Racine - Kenosha

A long-duration, early-season, heat wave affected Milwaukee and Racine counties, resulting in a directly-related death, and an indirectly-related death. This heat wave didn't meet official heat-wave criteria, but the duration and timing was sufficient to adversely affect humans. A 43-year old City of Milwaukee man was found dead on the steps of a Milwaukee church with a body temperature of 111 on June 23rd. Heat was the primary cause of death based on medical reports (death is directly related to heat). The maximum air temperature was only in the lower 90s across the city of Milwaukee, with General Mitchell Field registering 91. Heat Index values were in the 95 to 100 range. The morning low at Mitchell Field was 71. Normal highs and lows for June 23rd are 78 and 58. In addition, a 37-year-old City of Racine women died in her apartment on June 23rd, after her body temperature reached 109 degrees. Medical reports indicated that heat was a secondary cause of death (indirectly-related to heat). Maximum air temperatures in Racine ranged from 90 to 91, after overnight lows around 68. Heat indices were in the 95 to 100 degree range. June 23rd was the second of four consecutive days with maximum readings in the lower 90s across southeast and south-central Wisconsin, and minimum temperatures in the upper 60s to lower 70s, both about 12 to 15 degrees above normal. M43OU

Lightning struck a home in Pardeeville, starting a fire that gutted the 2nd floor. It traveled down to the 1st floor and blew out the front door's frame, blew out light switches, and knocked pictures off walls.

The last day of June 30, 2002, was the first of four consecutive days in south-central and southeast Wisconsin with maximum temperatures in the lower to mid 90s and overnight lows in the upper 60s to mid 70s, both about 10 to 15 degrees above normal. No deaths were reported, however, on June 30th, at least 150 people at Milwaukee's Summerfest (Milwaukee Co.) required first-aid treatment and one was taken to a local hospital for heat exhaustion. At least 6 people in the Madison (Dane Co.) area required medical treatment at local hospitals. Milwaukee Mitchell Field recorded a maximum of 95 on June 30th, while Madison came in with 93. Heat index values on June 30th peaked in the 95 to 104 range, thanks to surface dewpoints in the upper 60s to lower 70s.
Dime size hail was reported by the public and law enforcement officials.

Rainfall amounts of 3.5 to 5 inches produced flash flooding, with the town of Cassville being hardest hit. Furnace Creek, which flows into the northwest part of the town, was choked with so much debris that the flow of water was diverted into nearby homes and a park. 25 homes had to be evacuated, with 8 of these receiving significant damage. In fact, one home was completely destroyed when the basement collapsed. Local residents also reported cars floating in water 2 to 3 feet deep. Total damage due to the high water was estimated at nearly three-quarters of a million dollars.

Runoff from flash flooding during the early morning hours continued to cause rivers, such as the Grant River, to flood extensive areas of nearby farm fields throughout much of the day.

Repeated thunderstorms with heavy rain caused flash flooding over parts of central Wisconsin. Hardest hit was the northeast part of Adams County where Doppler radar estimated total amounts of 15 inches. Cooperative weather observers reported 5 inches of rain at Big Flats, 7 inches in Leola and 10 to 12 inches in areas just north and east of Leola. Numerous roads were closed or badly eroded, with many bridges washed out. Area lakes were full, while levees and dikes nearly breached. Many basements and septic fields flooded out. In northeast Clark County, numerous roads were damaged and closed. Both Adams and Clark County received federal disaster assistance due to the flooding, along with other central Wisconsin counties.

Flooding continued during the day as a result of excessively heavy rainfall Friday night into Saturday morning. Numerous roads remained closed due to washouts, while streams and creeks were overflowing. In northern Adams County, emergency management officials reported high water levels on area lakes, which nearly breached levees and embankments. Local residents joined township and county crews in an all-out effort to sandbag areas along lakes Arrowhead, Camelot and Sherwood.

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
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<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
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Storm Data and Unusual Weather Phenomena

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</table>

June 2002

353
**WISCONSIN, Southwest**

Buffalo County

2 NE Alma  00:25  2215 CST

A tornado touched down in Abbotsford (Clark County), causing considerable damage. A large feed mill was demolished, with debris damaging 15 cars at a nearby car dealership. An electric generator from the feed mill was thrown about two blocks, damaging the front of a building, before coming to rest on a minivan, demolishing it. Utility poles were sheared off and tossed, as well as a railroad crossing guard. One power pole was tossed through a car window, while yet another car was picked up and tossed onto another. In addition to the tornado, straight-line winds estimated at 60 to 65 mph blew down numerous trees and power lines.

Buffalo County

2 E Modena  00:25  2335 CST

Flash flooding was caused by 2 to 4 inches of rain in a couple of hours. Law enforcement officials reported mudslides, along with water covering a few county roads.

**WISCONSIN, West**

Rusk County

Southeast Portion  00:22  0630 CST

Main Creek overflowed its banks and produced water over a road, thereby closing it for a short while.

Polk County

2 E East Farmington  00:25  1910 CST

A few trees down.

Polk County

2 W East Farmington to 6 ESE East Farmington  00:25  1910 CST

Swath of numerous trees down.

St. Croix County

Star Prairie  00:25  1915 CST

Hail (1.75)

St. Croix County

3 W Star Prairie to 4 SE Deer Park  00:25  1915 CST

Hundreds of trees down. Several dozen trees down 4 SE Deer Park was the last severe weather to occur from this supercell. It started in Minnesota (8 SW Cambridge, Isanti County) and produced severe weather along a 60 mile path. One tornado, two funnel clouds, large hail and damaging wind were the result.

Polk County

8 ESE East Farmington  00:25  1926 CST

Hail (1.75)

Chippewa County

Bloomer  00:25  1925 CST

Hail swath extended to Lake Holcombe.

Chippewa County

Bloomer  00:25  1925 CST

Nearly 100 trees down on farm near Highway 64. Roof blown off barn.

Barron County

2 NE Haugen  00:25  1938 CST

A few trees down.

St. Croix County

Glenwood City  00:25  1945 CST

A few trees down.

Barron County

Prairie Farm  00:25  1946 CST

Hail (1.75)

Dunn County

Boycieville  00:25  1950 CST

Numerous trees down.

Barron County

Dallas  00:25  2000 CST

Hail (1.00)
### Storm Data and Unusual Weather Phenomena

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage</th>
<th>Character of Storm</th>
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<tr>
<td>Three to four inches fell quickly, producing street flooding in Bloomer, water over Highways 27 and 64 in Cornell, and a road washout in the town of Birch Creek. Two mudslides also occurred.</td>
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</table>
Nearly four inches of rain fell in less than two hours. Street flooding was the result, including water to three feet on Stokie Parkway.

Nearly four inches of rain in less than two hours caused ditches and creeks to overflow, some onto township roads.

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
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<th>Character of Storm</th>
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WYOMING, Central and West

Sweetwater County
- 23 S Green River
  - Reported by COOP observer at Flaming Gorge Reservoir.
  - Wind gust of 80 mph blew trucks off US 30 in Kemmerer.
  - One car was damaged and one stock truck was blown over. Damage was reported in the north part of Rock Springs. Also, 10 cars were blown off US 191.

Big Horn County
- Otto
  - Hail(1.75)
- .5 S Greybull
  - Hail(0.88)
  - The hail accumulated 3 to 4 inches.

Big Horn County
- Greybull
  - Flood
  - Rainfall amounts of 1.25 to 1.75 inches occurred in 20 minutes. There were 6 basements flooded and a business was flooded. Two cars were washed off Greybull River Road. Also, there was flooding along Greybull River Road.

Natrona County
- Edgerton
  - Hail(1.00)
- Fremont County
  - 26 SW Lander
    - Reported at Anderson Ridge RAWS site.
- Greybull
  - Hail(0.75)
- Fremont County
  - .3 S Riverton
    - Reported at Beaver Rim RAWS site.
- Fremont County
  - 3 W Lander
- Natrona County
  - 15 S Waltman
    - Reported at Fales Rock RAWS site.
- Washakie County
  - 16 W Worland
    - Hail(1.00)
- Washakie County
  - 13 SW Worland
    - Hail(0.75)
- Washakie County
  - Worland
    - Hail(0.75)
**Storm Data and Unusual Weather Phenomena**

June 2002

### WYOMING, Central and West

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
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Two cars were damaged.

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Several trees and power lines were blown down. Also, 2 to 3 building roofs were damaged.

<table>
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A boat was hit by lightning. The lightning blasted a hole in the boat floor.

### WYOMING, Extreme Southwest

NONE REPORTED.

### WYOMING, North Central

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<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Property Damage</th>
<th>Character of Storm</th>
</tr>
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<td>Hail(1.50)</td>
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<td>3 E Rochelle</td>
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<td>Campbell County</td>
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<td>Hail(0.75)</td>
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Severe thunderstorms moved across southern portions of Campbell and Weston Counties during the early evening, producing large hail.

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
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<th>Character of Storm</th>
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<tr>
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<td>02</td>
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<td>6 S Rozet</td>
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Several severe thunderstorms moved across northeastern Wyoming through the afternoon and evening hours. Large hail and damaging wind gusts were reported with these storms. One mile north of Upton in Weston County one inch sized hail piled up in six inch drifts. A six inch diameter tree limb was blown off in New Haven in Crook County.
### Storm Data and Unusual Weather Phenomena

#### June 2002

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Character of Storm</th>
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<td>Laramie</td>
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<td>Dry Microburst</td>
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</table>

Microburst winds resulted in several downed trees, some onto homes, in Laramie, WY.
