ALABAMA, North Central

Madison County
New Market 01 1550CST 0 0 3K 0 Thunderstorm Wind (G50)
A few large trees and power lines were blown down near New Market.

Madison County
Huntsville 01 1600CST 0 0 2K 0 Thunderstorm Wind (G50)
A few trees and power lines were blown down in the western part of Huntsville.

DeKalb County
Fyffe 01 1605CST 0 0 0 0 Hail(1.00)
Quarter size hail was reported in Fyffe.

Shelby County
Vandiver 02 1244CST 0 0 1K 0 Hail(1.00)
Quarter size hail was reported covering the ground in Vandiver.

Jefferson County
Gardendale 02 1310CST 0 0 0 0 Hail(0.75)
Dime size hail was observed in Gardendale.

Talladega County
Sylacauga 02 1324CST 0 0 3K 0 Thunderstorm Wind (G55)
A few trees, several large limbs, and some power lines were blown down around the Avondale Mills Property in Sylacauga.

Chilton County
Clanton 02 1410CST 0 0 3K 0 Thunderstorm Wind (G50)
Trees and power lines were knocked down just south of Clanton. A few trees and power lines were also knocked down near Verbena.

Walker County
Jasper 02 1426CST 0 0 2K 0 Thunderstorm Wind (G50)
Several trees were blown down on SR 269 and on US 78 near Jasper.

Marion County
Hackleburg 02 1450CST 0 0 0 0 Hail(0.75)
Dime size hail was reported in Hackleburg.

Tuscaloosa County
Countywide 02 1500CST 0 0 50K 0 Lightning
Several thunderstorms moved across west-central Alabama. These thunderstorms produced frequent lightning strikes. One home was struck by lightning in Northport and a subsequent fire ensued. No injuries were reported. During the height of the storm activity, nineteen thousand customers were temporarily without power.

Etowah County
Rainbow City 02 1508CST 0 0 0 0 Hail(0.75)
Dime size hail was reported in Rainbow City.

Marshall County
Boaz 02 1519CST 0 0 3K 0 Thunderstorm Wind (G50)

Marshall County
Highpoint 02 1519CST 0 0 0 0 Hail(0.75)
Trees and power lines were blown down in Boaz. Dime size hail also fell in the Highpoint area.

Etowah County
Attalla 02 1520CST 0 0 3K 0 Hail(1.75)
Quarter to golf ball size hail was observed in and around Attalla.

Winston County
Haleyville 02 1520CST 0 0 0 0 Hail(0.75)

Winston County
Haleyville 02 1520CST 0 0 5K 0 Lightning

Winston County
Haleyville 02 1520CST 0 0 10K 0 Thunderstorm Wind (G55)
Numerous trees were knocked down in and around Haleyville. A few of the trees landed on homes causing damage. One home sustained major garage damage. Lightning strikes caused two fires in the area with one utility building destroyed. Dime size hail

Storm Data and Unusual Weather Phenomena

<table>
<thead>
<tr>
<th>Location</th>
<th>Time</th>
<th>Path Length</th>
<th>Path Width</th>
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</table>
ALABAMA, North Central

was also reported with this storm.

Marion County
Countywide
02 1553CST 1600CST
0 0 15K 0 Thunderstorm Wind (G55)
Numerous trees and power lines were blown down across Marion county. Several of the fallen trees temporarily blocked roadways.

Lawrence County
11 SW Moulton
02 1554CST
0 0 0 0 Hail (0.75)
Dime size hail fell across the southwest parts of Lawrence County in the Bankhead National Forest.

Lamar County
Detroit
02 1615CST
0 0 7K 0 Thunderstorm Wind (G55)
Numerous trees were blown down in and around Detroit.

Pickens County
Carrollton
02 1630CST
0 0 25K 0 Thunderstorm Wind (G60)
The roof was blown off the Carriage House Antiques in downtown Carrollton. In addition, several trees and power lines were blown down in isolated locations across the county.

Lauderdale County
Rogersville
02 1737CST
0 0 2K 0 Thunderstorm Wind (G50)
A few trees and power lines were knocked down in and around Rogersville. A few trees were also blown down near Lexington.

Chilton County
Clanton
04 1515CST
0 0 3K 0 Thunderstorm Wind (G50)
Several trees were blown down near mile marker 210 on Interstate 65.

Shelby County
Pelham
04 1550CST
0 0 2K 0 Thunderstorm Wind (G50)
Several trees were knocked down in Pelham.

Montgomery County
Montgomery
04 1630CST
0 0 15K 0 Lightning
Thunderstorms produced frequent lightning across the city of Montgomery. Lightning strikes caused power outages and several power lines were knocked down.

Randolph County
Roanoke
04 1705CST 1715CST
0 0 0 0 Hail (0.75)
Dime size hail was reported in Roanoke. Dime size hail also fell in several other locations around Randolph County. Trees were blown down just northwest of Roanoke in the Pinshop community.

Shelby County
3 E Harpersville
07 1645CST
0 0 0 0 Hail (1.00)
Dime to quarter size hail was reported just east of Harpersville on CR 85. One very large pine tree was knocked down and several large limbs were broken during this same storm.

Lawrence County
Moulton
09 1745CST
0 1 0 0 Lightning
One person was struck by lightning and sustained minor injuries just north of SR 157 near Moulton.

St. Clair County
Countywide
11 1200CST
0 0 20K 0 Lightning
Two homes were struck by lightning in St. Clair County. Both homes had subsequent fires that caused damage. No injuries were reported.

Chilton County
4 SSW Maplesville
11 1235CST
0 0 2K 0 Lightning
Lightning struck a tall pine tree next to a residence along SR 22 south-southwest of Maplesville and exploded the tree with debris being blown as much as 100 feet from the tree. The lightning caused about $2000 worth of damage to the residence primarily to electrical appliances and the telephones. All of the telephone wiring was burned and had to be replaced. The pine tree, normally containing lots of sap, was bone dry.

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**Storm Data and Unusual Weather Phenomena**

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<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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July 2002
ALABAMA, North Central

St. Clair County
Odenville

Several roads were temporarily impassable due to localized flooding in Odenville.

Jefferson County
Birmingham

Heavy rainfall in a short period of time caused some flooding in the Birmingham Metropolitan area. Several roads were temporarily impassable due to the high water.

Jefferson County
Birmingham

Thunderstorms produced frequent lightning across the Birmingham metropolitan area. Several power lines were knocked out across the city due to lightning strikes.

Jefferson County
Countywide

Very heavy rainfall in a short period of time occurred mainly on the east side of the Birmingham Metropolitan area. Radar estimated 4 to 6 inches of rain over a three hour period. Some local gage locations reported 3 to 4 inches in one hour and 4 to 5 inches in two hours. Several local creeks and their tributaries, including Five Mile Creek, Shades Creek, Shades Creek Branch, Turkey Creek and Village Creek, ran at or over bankfull. Several swift water rescues were made by local fire departments. Numerous vehicles were stranded in the high water and many roads were closed and impassable. Several homes and a few businesses received water damage.

Rainfall Totals (Most rain was short duration and heavy):

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<th>Location</th>
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Autauga County
Autaugaville

Several trees were blown down on CR 45 and on CR 19 near Autaugaville.

Winston County
Countywide

Several trees were blown down or uprooted mainly in the eastern half of the county.

Blount County
1.3 SSW Bangor to 5 E Remlap

A strong thunderstorm moved east-southeast across the southern portion of Blount County downing trees and power lines. A few structures were damaged, some with lost shingles or a few when trees fell on them. This same storm continued into St. Clair County producing a brief tornado there. The area of damage was approximately 6 miles wide from just southwest of Bangor to east of Remlap. Damage was reported to be the most severe in the Hayden area.
ALABAMA, North Central

St. Clair County

A strong thunderstorm moved east-southeast from Blount County into St. Clair County producing downed trees in a path about 5 miles wide from northwest of Springville to northeast of Wattsville. Most of the damage consisted of downed trees and power lines.

St. Clair County

Meteorologists from the National Weather Service Warning and Forecast Office in Birmingham completed a storm survey of the damage in St. Clair County. Much of the damage consisted of scattered downed trees and power lines. However, 7.9 miles east-southeast of Springville, meteorologists identified a short path of downed trees with evidence of rotation. The damage path began 7.9 miles east-southeast of Springville on the west side of US 411. The path extended for about 4 tenths of a mile and was approximately 50 yards wide. The area where the tornado touched downed was mostly open fields, however, a few trees were downed along with several large limbs and the tops of some trees. Orientation to the downed trees was consistent with the presence of a weak rotation. The tornado was rated an F0 on the Fujita Scale for tornado classification. Beg.: 33 45.042/86 20.186 End: 33 44.980/86 19.730

Sumter County

Several trees were knocked down across Interstate 20 near York.

Pickens County

Trees and power lines were blown down in Sylacauga.

Blount County

Several trees were blown down just west of Blount Springs near the Mulberry Branch of the Warrior River.

Madison County

Three homes were struck by lightning across Madison County. Minor damage was reported.

Lee County

A lightning strike caused significant damage to an Opelika Power Substation. The lightning set a fire in the substation in which flames reached heights of over 50 feet. Six hundred gallons of mineral oil subsequently leaked out of the substation.

Blount County

A two-year-old boy was struck by lightning and eventually died from the injuries. The injury occurred as the boy was outside helping his family in the garden about 4.5 miles west of Oneonta.

Tuscaloosa County

One person was struck by lightning in Tuscaloosa and had sustained minor injuries.

Madison County

One large tree fell into an auto business causing damage in the city of Madison. Wind gusts measured at the Huntsville International Airport reached 68 miles an hour at 535 PM local time.

Franklin County

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July 2002
ALABAMA, North Central

A few trees were blown down near Red Bay and roadways were temporarily blocked.

Winston County
Arley

30 1830CST 0 0 2K 0 Lightning
Lightning struck the Dairy Barn near Arley. The business sustained minor damage.

Jackson County
Skyline

31 1535CST 0 0 0 0 Hail(0.75)
Dime size hail was reported in Skyline. One tree was also blown down in the same area.

Coosa County
Weogufka

31 1730CST 0 0 0 0 Hail(1.00)
Quarter size hail was reported in Weogufka.

ALABAMA, Southeast

Houston County
Rehobeth

07 1720EST 0 0 1K Thunderstorm Wind
Several downed trees reported by the Houston County Sheriff.

Houston County
Cottonwood

20 1700EST 0 0 Hail(0.75)
Dime size hail reported by NWS Mobile.

Geneva County
10 E Geneva

20 1720EST 0 0 2K Thunderstorm Wind
Downed trees on County Roads 16 and 61, as well as Highway 167. Reported by the Geneva County EMA.

Houston County
6 E Cottonwood

20 1720EST 0 0 Hail(0.75)
Dime size hail reported by NWS Mobile.

Houston County
Ashford

20 1725EST 0 0 Hail(0.75)
Dime size hail reported by NWS Mobile.

Houston County
3 N Cottonwood

20 1725EST 0 0 20K Thunderstorm Wind
Downed power lines. A barn was destroyed. Reported by NWS Mobile.

Dale County
Daleville

20 1840EST 0 0 Hail(0.75)
Dime size hail reported by the Dale County Sheriff.

Dale County
Clopton

21 1810EST 0 0 Hail(0.75)
Dime size hail reported by a SKYWARN spotter.

Dale County
Skipperville

21 1909EST 0 0 1K Thunderstorm Wind
Downed trees reported by the Dale County EMA.

Coffee County
Southeast Portion

24 1200EST 0 0 1K Thunderstorm Wind
Several trees down across County Roads 450, 461 and 606 between Opp and Enterprise. Reported by the Coffee County EMA.

ALABAMA, Southwest

Baldwin County
Summerville

01 1630CST 0 0 5K Thunderstorm Wind (G55)
A strong thunderstorm blew down several trees about 4 miles northeast of Summerville on County Road 36, just to the east of County Road 83.
### Storm Data and Unusual Weather Phenomena

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**ALABAMA, Southwest**

**Escambia County**
Brewton 1317CST 1322CST
Several trees were blown down by high winds from a thunderstorm.

**Conecuh County**
Evergreen 1815CST 1817CST
Several trees were blown down by high winds from a thunderstorm.

**Crenshaw County**
Luverne 1830CST 1832CST
Several trees were blown down by high winds from a thunderstorm near Luverne.

**Choctaw County**
Pennington to Lisman 2000CST 2005CST
Several trees were blown down between Pennington and Lisman as thunderstorms moved through the area.

**Wilcox County**
Camden 1415CST 1417CST
Trees and power lines were blown down by winds from a thunderstorm.

**Crenshaw County**
Lisman 1415CST 1417CST
Several trees were blown down between Pennington and Lisman as thunderstorms moved through the area.

**Choctaw County**
High winds from a thunderstorm blew down several trees near Camden.

**Mobile County**
Bayou La Batre 1800CST 1802CST
Two young boys were struck by lightning while playing outside. A thunderstorm had moved through the area earlier and the boys had went back out to play. They were likely hit by the last strike from the storm. A passing motorist saw a blue flash and the two boys were knocked to the ground. One of the boys was wearing a necklace and it burned his neck. Both were taken to the hospital and were kept for several days before being released.

**Mobile County**
Dauphin Is 1300CST 1302CST
Two children were rescued after nearly drowning in rough surf near Dauphin Island. Both were taken to a local hospital and were kept for several days.

**Mobile County**
Theodore 1600CST 1602CST
Trees were blown down by high winds from a thunderstorm.

**Washington County**
St Stephens 1640CST 1642CST
Lightning struck a home near St Stephens. The home caught on fire and was destroyed.

**Clarke County**
Fulton 1645CST 1647CST
Trees were blown down near Fulton by high winds from a thunderstorm.

**Wilcox County**
Camden 1745CST 1747CST
High winds from a thunderstorm blew down several trees near Camden.

**Choctaw County**
Pennington 1410CST 1412CST
High winds from a thunderstorm blew down several trees near Pennington. One of the trees fell on a truck and damaged it. Penny size hail was also reported.

**Washington County**
Mc Intosh 2015CST 2017CST
Lightning struck a home near McIntosh and started a small fire which was quickly put out. The home suffered minor damage.

**Washington County**
Mc Intosh 2015CST 2017CST
High winds from a thunderstorm blew down trees near McIntosh.
ALABAMA, Southwest

Clarke County
Barlow Bend 20 1450CST 1452CST 0 0 8K Thunderstorm Wind (G50)
High winds from a thunderstorm blew down several trees near Barlow Bend.

Covington County
Andalusia 20 1535CST 1537CST 0 0 10K Thunderstorm Wind (G50)
Trees and power lines were blown down by high winds from a thunderstorm near Andalusia.

Covington County
Andalusia 20 1550CST 1552CST 0 0 8K Thunderstorm Wind (G50)
High winds from a thunderstorm blew down several trees south of Andalusia. Dime size hail was also reported.

Crenshaw County
Luverne 20 1550CST 1552CST 0 0 10K Thunderstorm Wind (G50)
Trees were blown down and a roof was damaged at a local Flea Market by high winds from a thunderstorm near Luverne.

Crenshaw County
Brantley 20 1615CST 1617CST 0 0 10K Thunderstorm Wind (G50)
Trees were blown down near Brantley by high winds from a thunderstorm. Dime size hail was also reported with the storm.

Covington County
Florala 20 1620CST 1621CST 0 0 Hail(0.75)

Conecuh County
Evergreen 20 1630CST 1632CST 0 0 8K Thunderstorm Wind (G50)
Trees were blown down by high winds from a thunderstorm near Evergreen.

Conecuh County
Evergreen 20 1650CST 1652CST 0 0 Flash Flood
Heavy rains in a short period of time caused part of I-65 near Evergreen to flood. Part of the lanes had to be temporarily closed until the rain stopped and the road drained.

Washington County
Millry 21 1100CST 1101CST 0 0 Hail(0.75)

Covington County
5 SW Andalusia 23 1755CST 1757CST 0 0 8K Thunderstorm Wind (G50)
Trees were blown down west of Carolina near County Road 31 by high winds from a thunderstorm.

Conecuh County
Castleberry 23 1900CST 1902CST 0 0 8K Thunderstorm Wind (G50)
High winds from a thunderstorm blew down several trees south of Castleberry.

Escambia County
7 NW Mc Cullough 28 1245CST 1247CST 0 0 8K Thunderstorm Wind (G50)
Several trees were blown down by high winds from a thunderstorm just north of Booneville.

Washington County
Vinegar Bend 30 1042CST 1044CST 0 0 8K Thunderstorm Wind (G50)
Several trees were blown down near Vinegar Bend by high winds from a thunderstorm.

ALASKA, Northern

AKZ203>204 Central Beaufort Sea Coast - Eastern Beaufort Sea Coast
01 1153AST 0738AST 0 0 High Wind (G49)^M
**ALASKA, Northern**

A 994 mb low pressure center moved east-northeast over the north slope on the early morning of the 2nd, curving toward Banks Island in Northwest Canada by mid-morning. Strong west winds followed behind the low for several hours.

High Winds reported at:
- Zone 203: Deadhorse ASOS peak gust 48 kt
- Colville Co-op observer: Max wind 50 kt

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**AKZ222 Middle Tanana Valley**

- **04 0229AST**
- **05 1055AST**

Between 1 inch and 1.71 inches of rain fell over the upper Chena Basin in the 24 hours ending on the evening of July 3rd. This produced flooding of Chena Hot Springs Road at mile 37 enough to make the road impassible for low-clearance vehicles (about 10 to 15 inches of water).

**Denali Central Portion**

- **06 0430AST**
- **1020AST**

Heavy Rains on the night of the 5th caused mudslides on the Parks Highway at mile 238.5, closing the highway briefly, and causing it to be only one lane for a large portion of the day thereafter. Denali National Park dispatch also reported some visitors were stranded on a river island due to the high water.

**Middle Tanana Valley Fairbanks to Ester**

A Thunderstorm moved across Fairbanks bringing up to 1.5 inches of rain, and wind gusts estimated to 58 mph. The track of the thunderstorm was north of the Fairbanks Airport, which recorded a maximum wind gust on the ASOS of 39 mph. One mobile home was severely damaged when 6 spruce trees toppled onto it. One of these spruce trees hit a nearby travel trailer. At another home, fallen trees blocked the main entrance, requiring rescue workers to attend to the situation. Property damage is estimated sum of damage to the mobile home ($10,000) and travel trailer ($3000). There was also unknown property damage related to quite a few fallen trees on either properties or on power lines. The thunderstorm delivered between 300 and 500 lightning strikes, a large number for a single cell.

**AKZ224 Upr Tanana Vly Fortymile**

Heavy rains occurred over the Upper Tanana valley, bringing minor flooding to a campground along the Tok River; bank erosion was noted along the Tanana River. The Chisana River at the Northway Road and the Tanana River at Tanacross reached flood stage. Water levels dropped during the night of the 30th due to cooling off of the upper elevations of the eastern Alaska Range which had been feeding the rivers with increased snowmelt from the rains.

**ALASKA, Southeast**

**Northern Lynn Canal 10 N Skagway**

The West Creek flood inundated the small, remote community of Dyea on this date. A 700-foot high moraine above the West Creek Glacier collapsed during the early morning hours of Tuesday, July 23rd. This landslide collapsed into the glacial lake below, causing an estimated six foot rise in the lake level. Official estimates of between 536-766 million cubic yards of material slid into the lake. The displaced water volume surged downstream into the West Creek in a tsunami-like manner. The community of Dyea (10 miles north of Skagway) has about 20 year-round residents. With tourists in the area, 35 people total had to be evacuated. Major flood, mud and silt damage resulted in Dyea. The flood waters receded a mere 5 hours after the initial flood wave gushed through...again indicating a tsunami-like flash flood due to the landslide. The main problem now is the silt and mud left behind. Fortunately no deaths nor major injuries occurred.

**ALASKA, Southern**

NONE REPORTED.

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**Storm Data and Unusual Weather Phenomena**

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AMERICAN SAMOA

Tutuila
Countywide
21  1500SST
25  1500SST

High surf advisories were posted for all south shores of American Samoa due to heavy surf actions generated by wind driven seas and swell brought about by an intensive high pressure which persisted south of the islands for more than a week. These sure were at times as high as 20 feet. There were no damages reported from this high surf episode, as widespread advisories were issued for the public.

ARIZONA, Central and Northeast

Navajo County
Cibecue to Clay Spgs
01  0000MST
08  1800MST

The Chediski-Rodeo Complex burned more than 450,000 acres along Arizona’s eastern Mogollon Rim from June 18 to July 8. Over 450 structures and homes were lost. The picture on the left is a trailer park in the community of Overgaard. The picture on the right is from the southwest portion of the fire looking east. The large smoke plume in the distance is about 15 miles away. The area between is “in the black” where the fire burned. Both pictures were taken by a Tucson Helitack crew member.

The Rodeo fire was human caused on June 18 about 10 miles northeast of Cibecue on the lower slopes of the Mogollon Rim. The Chediski Fire was human caused June 20 about 12 miles to the west of the Rodeo Fire. The fires merged and became the Chediski-Rodeo Complex which burned 468,638 acres before it was contained at 6:00 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 Chediski-Rodeo fire included 18 Type I Hot Shot crews and 77 Type II crews, 30 helicopters, 245 engines, 90 bulldozers, 9 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 300 to 400 foot range during some of the major uphill runs.

Yavapai County
Prescott to Dewey
03  1157MST
1205MST

A severe thunderstorm produced damaging wind as it moved through central Yavapai county. The ASOS at the Prescott airport had a peak wind gust of 61 MPH. Shingles blew off the roof and 20 inch diameter branches were blown down at a Prescott golf course. A spotter in Dewey estimated 60 MPH wind gusts.

Navajo County
Cibecue
09  1700MST
2359MST

A Forest Service employee reported that Salt Creek Road about 7 miles northwest of Cibecue washed out between 5:00 PM and midnight. Logs and boulders covered the road and heavy equipment was needed to clear the road. This location is downstream from where the Chediski-Rodeo Fire burned over 450,000 acres in late June and early July.

Yavapai County
Prescott
13  1530MST
1645MST

A spotter in Prescott reported 1.47 inches of rain between 3:30 PM and 4:45 PM. One quarter inch hail also fell during the thunderstorm.

Yavapai County
Prescott
13  1535MST

Hail(1.00)
ARIZONA, Central and Northeast

One inch hail was reported in Prescott.

**Yavapai County**
- **Paulden**
  - **13 1555MST**
  - **0 0**
  - **Hail(1.00)**
  - One inch hail was reported in Williamson Valley 3 miles west of Paulden or 10 miles north of Prescott.

**Yavapai County**
- **Bagdad**
  - **13 1700MST 1800MST**
  - **0 0**
  - **Thunderstorm Wind (G50)**
  - Trees were blown down in Bagdad between 5:00 PM and 6:00 PM. Some of the trees fell onto power lines.

**Coconino County**
- **Flagstaff**
  - **14 1325MST 1355MST**
  - **0 0**
  - **Thunderstorm Wind (G57)**
  - A thunderstorm produced wind gusts to 66 MPH in Doney Park. A wooden fence with metal supports blew down in the storm.

**Yavapai County**
- **Camp Verde**
  - **14 1810MST 1812MST**
  - **0 0**
  - **Hail(1.25)**
  - A Camp Verde Police officer reported golf ball sized hail in Camp Verde.

**Yavapai County**
- **Cordes**
  - **14 1920MST**
  - **0 0**
  - **Heavy Rain**
  - Arizona Department of Transportation reported several vehicle accidents on I-17 between mileposts 267 and 268 from hydroplaning in heavy rain.

**Coconino County**
- **Flagstaff**
  - **15 1500MST 1530MST**
  - **0 0**
  - **Heavy Rain**
  - A spotter in Doney Park reported 0.64 inches of rain in just 30 minutes.

**Apache County**
- **Mc Nary**
  - **15 2050MST 2150MST**
  - **0 0**
  - **Heavy Rain**
  - A spotter two miles north of McNary reported 1.58 inches of rain in just one hour.

**Gila County**
- **Payson**
  - **15 2345MST 0145MST**
  - **0 0**
  - **Urban/Sml Stream Fld**
  - Street flooding was reported in Payson by Payson Police Department.

**Navajo County**
- **Cibecue**
  - **16 0040MST 0130MST**
  - **0 0**
  - **Urban/Sml Stream Fld**
  - The water level in Cibecue Creek rose to 5 feet above normal level in the town of Cibecue. This flooded a low water crossing in town.

**Apache County**
- **Window Rock**
  - **18 1446MST 1515MST**
  - **0 0**
  - **Urban/Sml Stream Fld**
  - A wash was flowing over a road 10 miles north of Window Rock.

**Coconino County**
- **Grand Canyon Arpt**
  - **19 1410MST 1440MST**
  - **0 0**
  - **Heavy Rain**
  - The visitor center at the north rim of the Grand Canyon reported 0.94 inches of rain in just 30 minutes. The Phantom Ranch campground at the bottom of the Grand Canyon was evacuated. The Bright Angel and Kaibab Trails on the south side of the Colorado River sustained minor flood damage.

**Coconino County**
- **Williams**
  - **19 1615MST 1700MST**
  - **0 0**
  - **Urban/Sml Stream Fld**
  - Heavy rain caused flooding in Coconino County 2 miles north of Ash Fork (Ash Fork is in Yavapai county). Double A Ranch Road and Lore Way were closed because of the flooding. Two cars were stuck in knee deep water for a short period of time. A spotter reported 1.76 inches of rain in 1 hour with this storm.

**Navajo County**
- **Polacca to Keams Canyon**
  - **22 1630MST 1730MST**
  - **0 0**
  - **Urban/Sml Stream Fld**
  - Law enforcement officials and fire fighters reported that flowing water in washes made several roads impassable in the Polacca
ARIZONA, Central and Northeast

and Keams area. The water receded within an hour.

AZZ005 Marble Canyon And Glen Canyon

<table>
<thead>
<tr>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Injured</th>
<th>Estimated Property Damage</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>1845MST</td>
<td>1900MST</td>
<td></td>
<td>0</td>
<td>0</td>
<td>Dust Storm</td>
<td></td>
</tr>
</tbody>
</table>

Outflow wind from a thunderstorm caused a dust storm from Lee's Ferry to Page. The visibility dropped one eighth of a mile or less. The peak wind gust at the Page airport was 48 MPH.

Coconino County

Supai

<table>
<thead>
<tr>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Injured</th>
<th>Estimated Property Damage</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>1550MST</td>
<td>1850MST</td>
<td></td>
<td>0</td>
<td>0</td>
<td>Urban/Sml Stream Fld</td>
<td></td>
</tr>
</tbody>
</table>

Heavy rain caused Havasu Creek to peak about 5 feet above normal. This prompted the Supai campground to be evacuated. Some campers were stranded. No injuries or structural damage was reported. Many washes and smaller creeks in the area also experienced high water levels.

Navajo County

Clay Spgs

<table>
<thead>
<tr>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Injured</th>
<th>Estimated Property Damage</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>1423MST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>Urban/Sml Stream Fld</td>
<td></td>
</tr>
</tbody>
</table>

The Cottonwood Wash rose 20 feet where it passed under Highway 260 near Clay Springs. No structures were threatened.

Coconino County

Flagstaff

<table>
<thead>
<tr>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Injured</th>
<th>Estimated Property Damage</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>1515MST</td>
<td>1700MST</td>
<td></td>
<td>0</td>
<td>0</td>
<td>Urban/Sml Stream Fld</td>
<td></td>
</tr>
</tbody>
</table>

Heavy rain (1.45 inches in 2 hours) caused street flooding in Doney Park. About 10 inches of water covered one street.

Apache County

Chinle

<table>
<thead>
<tr>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Injured</th>
<th>Estimated Property Damage</th>
<th>Character of Storm</th>
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</thead>
<tbody>
<tr>
<td>1430MST</td>
<td>1530MST</td>
<td></td>
<td>0</td>
<td>0</td>
<td>Hail(1.75)</td>
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</table>

A thunderstorm at Canyon de Chelly produced 0.67 inches of rain in a hour with golf ball sized hail at one time.

ARIZONA, Northwest

Mohave County

Temple Bar Marina

<table>
<thead>
<tr>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Injured</th>
<th>Estimated Property Damage</th>
<th>Character of Storm</th>
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</thead>
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<tr>
<td>2009PST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>1K</td>
<td>Thunderstorm Wind (G50)</td>
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</tbody>
</table>

Strong winds from a thunderstorm damaged a boat dock at Temple Bar Marina in the Lake Mead National Recreation area.

Mohave County

Kingman

<table>
<thead>
<tr>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Injured</th>
<th>Estimated Property Damage</th>
<th>Character of Storm</th>
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</thead>
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<tr>
<td>1437PST</td>
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<td>0</td>
<td>0</td>
<td>400K</td>
<td>Thunderstorm Wind (G67)^M</td>
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</tbody>
</table>

Strong thunderstorm winds blew through Kingman destroying 16 homes and damaging 36. Most of the damaged and destroyed homes were mobile homes in the Kingman Shadows subdivision. Four people received minor injuries from flying debris. Several powerlines were also blown down knocking out power to an estimated 3,000 to 4,000 people.

Mohave County

Kingman

<table>
<thead>
<tr>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Injured</th>
<th>Estimated Property Damage</th>
<th>Character of Storm</th>
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<tr>
<td>0634PST</td>
<td>0701PST</td>
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<td>0</td>
<td>0</td>
<td>10K</td>
<td>Thunderstorm Wind (G55)^M</td>
</tr>
</tbody>
</table>

Strong winds from thunderstorms pushed through Kingman knocking down powerlines causing minor roof damage to several homes around town. A 3-foot diameter tree was also knocked down by the winds.

Mohave County

Chloride

<table>
<thead>
<tr>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Injured</th>
<th>Estimated Property Damage</th>
<th>Character of Storm</th>
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</thead>
<tbody>
<tr>
<td>1900PST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>5K</td>
<td>Thunderstorm Wind (G87)</td>
</tr>
</tbody>
</table>

Thunderstorm winds estimated at 100 mph blew the roof off a horse coral.

Mohave County

Hualapai

<table>
<thead>
<tr>
<th>Time</th>
<th>Path Length (Miles)</th>
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<th>Number of Persons Killed</th>
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<th>Character of Storm</th>
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<tbody>
<tr>
<td>1615PST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>Heavy Rain</td>
<td></td>
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A local storm chaser reported 1 inch of rain fell in 8 minutes.

ARIZONA, South

Graham County

Pima

<table>
<thead>
<tr>
<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 Property Damage</th>
<th>Character of Storm</th>
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<tr>
<td>1600MST</td>
<td>1645MST</td>
<td></td>
<td>0</td>
<td>0</td>
<td>3K</td>
<td>Thunderstorm Wind</td>
</tr>
</tbody>
</table>

Strong winds from a severe thunderstorm, over the town of Pima, downed several power poles and a large tree. A newspaper reported a fence blown down in the backyard of a residents home in the town of Pima. Three portions of the fence were flown into the neighbors yard and damages were estimated to 3,500 dollars. The strong winds also peeled portions of a roof off at a Mini Mart, which later caused leaking.
High pressure over Utah allowed for deeper moisture to be pulled into southeastern Arizona, which resulted in strong afternoon thunderstorms developing over Cochise county. Thunderstorms in the Tombstone area caused damaging winds as two power poles were blown down in the city at 7:39 pm MST. At 8:14 pm MST a spotter reported strong winds during the event and a storm total precipitation of .60 inches.

Another batch of severe thunderstorms moved through the town of Tombstone producing strong winds. At 8:40 pm MST, a spotter reported a large tree blown down in a next door neighbors yard.

A dust storm began over the southeast side of Tucson as a result of a collapsing thunderstorm and an outflow boundary from a previous storm. The dust cloud moved over Davis Monthan AFB with visibilities reducing to near zero and 49 mph wind gusts reported at the Tucson International Airport. Reduced visibilities caused a 5 vehicle accident on Interstate 10 near east Valencia Road. No one was injured in the accident, but four cars were towed away. A quarter mile visibility was reported at the Tucson NWS office on the University of Arizona campus.

A dust storm reduced visibilities to less than a quarter mile at the Safford Airport. Wind gusts of 46 mph was reported at the Safford ASOS.

Thunderstorms developed over the White Mountains and moved southwest toward the city of Safford. The ASOS at the Safford airport reported peak wind gusts of 69 mph at 4:54 pm MST. The temperature sensor recorded a 21 degree drop in 21 minutes as the storm moved through the area.

A severe thunderstorm developed and moved over the town of Duncan. At 5:25 pm MST, spotters reported shingles being blown off roofs and roofs being blown off of two houses.

Thunderstorms moved across central Tucson producing damaging winds. The K-mart store received structural damage due to the strong winds on Broadway and Kolb roads.

A severe thunderstorm produced strong winds that knocked down a sign in the town of Patagonia. Most residents and spotters reported hail size of a half of an inch. The storm total precipitations for spotters ranged from .40 to 1.7 inches.

Outflow boundaries from several thunderstorms in the Safford area caused a dust storm. Visibilities were reduced to less than a quarter of a mile and wind gusts of 51 mph was reported at the ASOS at the Safford airport.

Severe thunderstorms produced damaging winds across an area 12 miles south of Safford. A spotter reported shingles being ripped off his roof by strong winds.

Outflow boundaries from several thunderstorms in central Cochise county produced a dust storm. At 5:05 pm MST, a spotter in...
ARIZONA, South

Sunsites reported visibilities less than a quarter of a mile and wind gusts of 50 mph. Another spotter in the Tombstone area reported less than a quarter of a mile visibilities at 5:37 pm MST.

Pima County
Tucson
14 1730MST 1900MST
A line of thunderstorms extended from Marana, through Tucson, to Green Valley. A majority of the damage from the thunderstorms occurred on the south side of Tucson. First reports of came in from Tucson International Airport with hail size of 3/8 inch in diameter at 530 pm MST. A spotter on the south side of Tucson recorded peak wind gust of 79 mph with an anemometer at 530 pm MST. Between 540 pm and 610 pm several reports of damage flowed into the NWS office. A chimney was blown off the roof of Davis Monthan AFB. Several large trees were blown down in Kennedy Park near Mission Road and west Ajo Road. Another report of a large tree was blocking the intersection of Grant and First Avenue, with a metal parking light pole bent over in the street. A roof was blown off a house on the south side of Tucson. Five power poles were knocked down on North Greasewood Road, with another 10 power poles downed on Valencia and Mission roads. Throughout the city, a total of 25 power poles were reported knocked down by the strong winds. The Tucson International Airport received .96 inches of rainfall throughout the event, with a spotter receiving 1.17 inches on the south side of Tucson. There was only one report of a swift water rescue on Santa Clara near Interstate 10.

AZZ029
Southeast Pinal County
14 1930MST 2015MST
Outflow boundaries from surrounding thunderstorms in the Tucson area caused a dust storm along Interstate 10 in Pinal County. Law enforcement in Eloy reported near zero visibilities on Interstate 10 as dust pushed northward towards Phoenix.

AZZ035
Cochise County
16 1418MST 1440MST
Outflow boundaries from several thunderstorms produced a dust storm near San Simon area. A DPS officer reported near zero visibilities on Interstate 10 at mile post 384.

Cochise County
20 E Elfrida
21 1300MST 1345MST
A thunderstorm produced heavy rainfall over Rucker Canyon. A spotter reported 4.7 inches of rainfall, with 4.0 inches falling within one hour. The hydrologist of Cochise county reported water flowing over a bridge with debris on the road at milepost 15.7 on Rucker Canyon Road.

Pima County
Tucson
22 1700MST 1745MST
Thunderstorms moved across Tucson from the east producing moderate rainfall across the city. The fire department received two calls of motorists stuck in rushing water. One was on the east side of Tucson and another in mid town. However, no swift water rescues were necessary. Storm total precipitation for the event ranged from .83 inches to 1.55 inches.

Cochise County
Benson
25 1715MST 1720MST
A severe thunderstorm moved across the city of Benson producing damaging winds. At 515 pm MST, a spotter reported 4 power poles downed. Also, the roof of a Safeway store was damaged.

Santa Cruz County
Nogales
26 1525MST 1640MST
Thunderstorms produced heavy rainfall across the Nogales area. The Nogales wash rose 7 to 8 feet, with 3 to 4 feet out of its banks. Reports from officials stated some bank erosion occurred. Rushing water also washed cars into a fence along the Mexico border.

Pima County
Green Vly
26 2000MST 2100MST
A severe thunderstorm moved through Green Valley and Sahuarita area, producing damaging winds. The strong winds knocked down a power pole causing a power outage for several hours. The storm also produced over an inch of precipitation. However, there were no reports of flooding.
**ARIZONA, Southwest**

**Pinal County**

*Apache Jct*

- **Date**: 09/17/2002
- **Time**: 1736MST
- **Path Length** (Miles): 0
- **Path Width** (Yards): 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: 0
- **Estimated Damage Property**: 5K
- **Character of Storm**: Thunderstorm Wind

Gusty winds over 50 mph tore branches off trees in Gold Canyon and blew an awning off a home in Apache Junction. Winds gusted to 52 mph at nearby Williams Gateway Airport.

**Maricopa County**

*7 E Mesa to Queen Creek*

- **Date**: 09/18/2002
- **Time**: 1800MST
- **Path Length** (Miles): 0
- **Path Width** (Yards): 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: 80K
- **Estimated Damage Property**: Thunderstorm Wind (G52)

Dense blowing dust accompanied winds that gusted to about 60 mph. A small airplane was damaged while trying to land at Falcon Field. Thunderstorms developed over the East Valley, and microburst winds struck in Mesa, along University Drive between Extension and Country Club. About 20 power poles were blown down leaving 7,500 homes without power in this area.

**Pinal County**

*Sacaton to Casa Grande*

- **Date**: 09/18/2002
- **Time**: 1829MST
- **Path Length** (Miles): 0
- **Path Width** (Yards): 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: 500K
- **Estimated Damage Property**: Thunderstorm Wind (G69)

Damage from strong winds extended over a large area of north central and northwest Pinal County. Trees were uprooted in Coolidge and homes were damaged in Florence. Winds were clocked at 55 mph on an automatic weather station 20 miles south of Queen Creek. A spotter reported two roofs ripped off maintenance buildings at the Sacaton Middle School, where winds were estimated as high as 80 mph. Another spotter driving along I-10 near Casa Grande reported freeway signs blown down as dense blowing dust hit the area. A power pole was also blown down across McCartney Road just south of Casa Grande. Eight mature trees were uprooted at the Central Arizona College with power and telephone outages lasting into Wednesday morning.

**Maricopa County**

*Phoenix*

- **Date**: 09/19/2002
- **Time**: 1915MST
- **Path Length** (Miles): 0
- **Path Width** (Yards): 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: 50K
- **Estimated Damage Property**: Thunderstorm Wind

Several trees uprooted and blown across roads and streets in Ahwatukee. Patio roof damaged by winds.

**Pinal County**

*Eloy*

- **Date**: 09/19/2002
- **Time**: 1920MST
- **Path Length** (Miles): 0
- **Path Width** (Yards): 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: 2K
- **Estimated Damage Property**: Thunderstorm Wind

A line of severe thunderstorms moved across southeast Pinal county. Damaging winds downed 2 power poles and ripped off small porches and awnings in a trailer park in the Eloy area.

**Pinal County**

*Kohatk*

- **Date**: 10/15/2002
- **Time**: 1555MST
- **Path Length** (Miles): 0
- **Path Width** (Yards): 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: 10K
- **Estimated Damage Property**: Thunderstorm Wind

Thunderstorm winds blew the roof off a house in the town of Kohatk.

**Maricopa County**

*(Phx) Sky Harbor Arpt*

- **Date**: 10/13/2002
- **Time**: 0227MST
- **Path Length** (Miles): 0
- **Path Width** (Yards): 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: 0
- **Estimated Damage Property**: Thunderstorm Wind (G53)"n

**Maricopa County**

*Paradise Vly*

- **Date**: 10/13/2002
- **Time**: 0237MST
- **Path Length** (Miles): 0
- **Path Width** (Yards): 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: 50K
- **Estimated Damage Property**: Lightning

Lightning struck a home in the 5600 block of N. Saguaro Road.

**Pinal County**

*Oracle*

- **Date**: 10/13/2002
- **Time**: 1740MST
- **Path Length** (Miles): 0
- **Path Width** (Yards): 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: 2K
- **Estimated Damage Property**: Thunderstorm Wind

Thunderstorm winds downed 2 power poles in the town of Oracle.

**AZZ028**

*Central Deserts*

- **Date**: 10/14/2002
- **Time**: 1920MST
- **Path Length** (Miles): 0
- **Path Width** (Yards): 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: 0
- **Estimated Damage Property**: Dust Storm

Near zero visibility with blowing dust and sand spread across a wide area of northwest Pinal County. Southerly winds reached as high as 45 to 50 mph.

**Maricopa County**

*(Phx) Sky Harbor Arpt*

- **Date**: 10/14/2002
- **Time**: 2020MST
- **Path Length** (Miles): 0
- **Path Width** (Yards): 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: 20M
- **Estimated Damage Property**: Thunderstorm Wind (G87)

The first of two microburst events occurred on the airport at 1300 Airlane Blvd.

**Maricopa County**

*(Phx) Sky Harbor Arpt*

- **Date**: 10/14/2002
- **Time**: 2040MST
- **Path Length** (Miles): 0
- **Path Width** (Yards): 0
- **Number of Persons Killed**: 0
- **Number of Persons Injured**: 30M
- **Estimated Damage Property**: Thunderstorm Wind (G91)
ARIZONA, Southwest

The second of two microburst events struck on the airport at the Postal facility and the West economy parking lot. A large thunderstorm complex, with strong microburst winds estimated at 100 mph struck Sky Harbor International Airport. Southerly winds and dense blowing dust initially spread across the East valley and converged with a fast-moving thunderstorm in North Phoenix. These merging systems developed into a severe thunderstorm with winds that uprooted trees, took down power poles and damaged homes and businesses near the airport. Several hangars sustained major damage. Flying debris damaged five commercial aircraft, several private planes and hundreds of cars in the nearby parking lots. Numerous flights were diverted during the overnight hours due to the debris that was scattered on the runway.

Microburst winds heavily damaged the Arizona Public Service power sub-station at 7th Ave and Thomas. Widespread damage was reported across the greater Phoenix metropolitan area caused by the storm's high winds and heavy rainfall with up to 2 inches in 90 minutes. Utility companies reported that 22 power poles were downed, leaving at least 47,000 homes and businesses without power electricity for many hours. Homes in Scottsdale and Ahwatukee were struck by lightning and set on fire.

Widespread dense blowing dust and sand cut the visibility to near zero over much of northwest Pinal County. Peak winds were 52 mph from an automatic weather station near Queen Creek.

Maricopa County
Phoenix 14 2047MST 0 0 20M Thunderstorm Wind (G60)
Microburst winds heavily damaged the Arizona Public Service power sub-station at 7th Ave and Thomas. Widespread damage was reported across the greater Phoenix metropolitan area caused by the storm's high winds and heavy rainfall with up to 2 inches in 90 minutes. Utility companies reported that 22 power poles were downed, leaving at least 47,000 homes and businesses without power electricity for many hours. Homes in Scottsdale and Ahwatukee were struck by lightning and set on fire.

Maricopa County
Chandler Arpt 23 1847MST 0 0 Thunderstorm Wind (G59)°M
Winds toppled about 10 power poles near Lindsay and Pecos roads.

Maricopa County
Scottsdale to Glendale 23 2115MST 0 1 200K Thunderstorm Wind (G52)
At least 2 trees blown down in north Scottsdale. Heavy rain and lightning were blamed for the collapse of a section of a roof of the Goodwill store in south Scottsdale. One man inside the store suffered minor injuries. Trees and cactus blown down in Glendale.

ARKANSAS, Central and North Central

Dallas County
Dalark 02 1200CST 0 0 Hail(0.75)
Thunderstorm winds downed several power poles.

Pulaski County
Mc Almont 02 1640CST 0 0 Thunderstorm Wind (G50)

Boone County
2 S Bergman 12 1215CST 0 0 Hail(0.75)

Boone County
Harmon 12 1230CST 0 0 Hail(0.75)

Arkansas County
2 W Gillett 12 1415CST 0 0 Hail(0.75)

Yell County
Ola 12 1500CST 0 0 Hail(0.75)

Logan County
Delaware 12 1500CST 0 0 Thunderstorm Wind (G50)
Thunderstorm winds blew down a large tree.

Yell County
7 NW Dardanelle 12 1510CST 0 0 Hail(0.75)

White County
West Pt 12 1600CST 0 0 Thunderstorm Wind (G50)
Thunderstorm winds downed a few large trees.

Garland County
10 NW Hot Spgs 12 1620CST 0 0 Thunderstorm Wind (G50)

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Storm Data and Unusual Weather Phenomena

<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>Injured</th>
<th>Estimated Damage Property</th>
<th>Character of Storm</th>
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<tbody>
<tr>
<td>Maricopa County</td>
<td>Phoenix</td>
<td>14 2047MST</td>
<td>20M</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G60)</td>
<td>Microburst</td>
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<td>AZZ028</td>
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<td></td>
<td></td>
<td>23 1727MST 1850MST</td>
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July 2002
Arkansas, Central and North Central

Numerous trees and large limbs were knocked down. Several boat docks were blown around, with damage to several boats and the dock structure. A large swim dock was pushed onto the shoreline with major damage caused to the dock itself. A number of canoes, paddleboats and waverunners were pushed onto shore by the strong winds. Several outbuildings suffered minor damage.

Saline County
East End
12 1700 CST
Several trees were blown down.

Saline County
7 W Benton
12 1700 CST
Thunderstorm winds blew down a few trees.

Hot Springs County
Malvern
12 1730 CST
Several large trees were knocked down.

Cleveland County
Rison
12 1835 CST
Several large trees were knocked down.

Cleveland County
Rison
12 1840 CST

Grant County
North Portion
14 1100 CST
Heavy rains resulted in flash flooding over the northern portions of Grant County. Several county roads between Ico and Tull were covered by high water for a short period of time.

Jefferson County
Jefferson
14 1120 CST

Saline County
Countywide
14 1130 CST

Faulkner County
Conway
14 1205 CST

Pulaski County
3.5 WSW Roland to 5 WSW Roland
14 1245 CST
1.5 50 0 0 Tornado (F0)
ARKANSAS, Central and North Central

A waterspout was spawned over Lake Maumelle (Pulaski County) during the afternoon of 07/14/2002. The photo is courtesy of Jill Gray and is used by permission.

A waterspout touched down on Lake Maumelle and traveled westward for about 1.5 miles before lifting. No damage occurred. The waterspout was observed by nearby boaters who were already ashore.

<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>
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A waterspout was spawned over Lake Maumelle (Pulaski County) during the afternoon of 07/14/2002. The photo is courtesy of Jill Gray and is used by permission.
### Storm Data and Unusual Weather Phenomena

**July 2002**

<table>
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<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
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ARKANSAS, Central and North Central

Damaging winds downed a tree onto a house near Scott (Pulaski County) around 11 pm CDT on 07/18/2002. Thunderstorm winds downed some large trees, one of which fell on a house. Numerous tree limbs were also taken down and a carport roof sustained damage.

Independence County

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
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<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
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Heavy rains resulted in flash flooding around Batesville. Several roads were covered by high water.

Jackson County

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<th>Location</th>
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<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
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<td>Flash Flood</td>
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Streets were flooded in Newport (Jackson County) after more than 6 inches of rain fell in the area on 07/19/2002. The picture is courtesy of David

Heavy rains caused flash flooding to occur in Newport. Several roads were covered by high water for a short period of time.
### ARKANSAS, Central and North Central

**Jackson County**
- **Grubbs**
  - **Date**: 19
  - **Time**: 1100 CST
  - **Path Length**: 0
  - **Path Width**: 0
  - **Persons Killed**: 0
  - **Persons Injured**: 0
  - **Estimated Damage**: Flash Flood
  - **Description**: Heavy rains fell over Jackson County. Flash flooding resulted with numerous roads covered by high water around Grubbs and Highway 14 was flooded in several locations.

**Jackson County**
- **South Portion**
  - **Date**: 19
  - **Time**: 1300 CST
  - **Path Length**: 0
  - **Path Width**: 0
  - **Persons Killed**: 0
  - **Persons Injured**: 0
  - **Estimated Damage**: Flash Flood

**Independence County**
- **Oil Trough**
  - **Date**: 19
  - **Time**: 1200 CST
  - **Path Length**: 0
  - **Path Width**: 0
  - **Persons Killed**: 0
  - **Persons Injured**: 0
  - **Estimated Damage**: Flash Flood
  - **Description**: Heavy rains caused flash flooding to occur over portions of Independence County. Several roads were covered by high water around the Oil Trough area and Highway 14 was flooded for a period of time.

**Independent County**
- **South Portion**
  - **Date**: 19
  - **Time**: 1300 CST
  - **Path Length**: 0
  - **Path Width**: 0
  - **Persons Killed**: 0
  - **Persons Injured**: 0
  - **Estimated Damage**: Flash Flood

**Saline County**
- **Bryant**
  - **Date**: 19
  - **Time**: 1515 CST
  - **Path Length**: 0
  - **Path Width**: 0
  - **Persons Killed**: 0
  - **Persons Injured**: 0
  - **Estimated Damage**: Hail (0.75)

- **Cleveland County**
  - **2 N Rison**
    - **Date**: 19
    - **Time**: 1540 CST
    - **Path Length**: 0
    - **Path Width**: 0
    - **Persons Killed**: 0
    - **Persons Injured**: 0
    - **Estimated Damage**: Hail (0.75)

- **Cleveland County**
  - **2 N Rison**
    - **Date**: 19
    - **Time**: 1540 CST
    - **Path Length**: 0
    - **Path Width**: 0
    - **Persons Killed**: 0
    - **Persons Injured**: 0
    - **Estimated Damage**: Thunderstorm Wind (G50)
    - **Description**: A large tree was blown down.

**Lincoln County**
- **Star City**
  - **Date**: 19
  - **Time**: 1615 CST
  - **Path Length**: 0
  - **Path Width**: 0
  - **Persons Killed**: 0
  - **Persons Injured**: 0
  - **Estimated Damage**: Hail (0.75)

- **Lincoln County**
  - **6 S Star City**
    - **Date**: 19
    - **Time**: 1625 CST
    - **Path Length**: 0
    - **Path Width**: 0
    - **Persons Killed**: 0
    - **Persons Injured**: 0
    - **Estimated Damage**: Thunderstorm Wind (G50)
    - **Description**: Thunderstorm winds knocked down some large tree limbs and power lines.

**Pulaski County**
- **2 SSW Scott**
  - **Date**: 19
  - **Time**: 2158 CST
  - **Path Length**: 0
  - **Path Width**: 0
  - **Persons Killed**: 0
  - **Persons Injured**: 0
  - **Estimated Damage**: Thunderstorm Wind (G50)
    - **Description**: Thunderstorm winds downed several large trees and limbs. One of the trees fell onto and house and caused some minor damage. A carport also sustained some roof damage.

**Independence County**
- **2 S Cave City**
  - **Date**: 20
  - **Time**: 1252 CST
  - **Path Length**: 0
  - **Path Width**: 0
  - **Persons Killed**: 0
  - **Persons Injured**: 0
  - **Estimated Damage**: Thunderstorm Wind (G50)
    - **Description**: Thunderstorm winds downed some trees.

- **Pulaski County**
  - **Gravel Ridge**
    - **Date**: 20
    - **Time**: 1410 CST
    - **Path Length**: 0
    - **Path Width**: 0
    - **Persons Killed**: 0
    - **Persons Injured**: 0
    - **Estimated Damage**: Thunderstorm Wind (G50)
    - **Description**: Thunderstorm winds blew down some trees and large tree limbs.

- **Pulaski County**
  - **Macon**
    - **Date**: 20
    - **Time**: 1410 CST
    - **Path Length**: 0
    - **Path Width**: 0
    - **Persons Killed**: 0
    - **Persons Injured**: 0
    - **Estimated Damage**: Thunderstorm Wind (G50)

- **Scott County**
  - **Waldron**
    - **Date**: 23
    - **Time**: 1430 CST
    - **Path Length**: 0
    - **Path Width**: 0
    - **Persons Killed**: 0
    - **Persons Injured**: 0
    - **Estimated Damage**: Thunderstorm Wind (G50)
    - **Description**: Thunderstorm winds knocked down some trees and large tree limbs in Waldron. Some of the tree limbs fell on houses, with a few reports of roof damage.

- **Scott County**
  - **Waldron**
    - **Date**: 23
    - **Time**: 1430 CST
    - **Path Length**: 0
    - **Path Width**: 0
    - **Persons Killed**: 0
    - **Persons Injured**: 0
    - **Estimated Damage**: Hail (0.75)

- **Van Buren County**
  - **Scotland**
    - **Date**: 23
    - **Time**: 1535 CST
    - **Path Length**: 0
    - **Path Width**: 0
    - **Persons Killed**: 0
    - **Persons Injured**: 0
    - **Estimated Damage**: Thunderstorm Wind (G50)
    - **Description**: Several large trees were blown down.

- **Logan County**
  - **4 E New Blaine**
    - **Date**: 23
    - **Time**: 1549 CST
    - **Path Length**: 0
    - **Path Width**: 0
    - **Persons Killed**: 0
    - **Persons Injured**: 0
    - **Estimated Damage**: Thunderstorm Wind (G50)
    - **Description**: Some large tree limbs were knocked down.
### Storm Data and Unusual Weather Phenomena

**ARKANSAS, Central and North Central**

<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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<tbody>
<tr>
<td>Logan County</td>
<td>23</td>
<td>1549CST</td>
<td>0</td>
<td>0</td>
<td>Hail(0.75)</td>
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<tr>
<td>4 E New Blaine</td>
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<td>Logan County</td>
<td>23</td>
<td>1549CST</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G50)</td>
<td></td>
<td></td>
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<tr>
<td>5 NW Delaware</td>
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<td>Pulaski County</td>
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<td>2.5 SW Ferndale</td>
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<td>6 N Avilla</td>
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<td>(Lrf)/Little Rock Afb</td>
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</table>

*Is it a wall cloud or a downburst? At any rate, there was a lowering of the cloud base in Pulaski County during the afternoon of 07/23/2002... with a 79 mph wind gust to follow at the Little Rock Air Force Base. The photo is courtesy of George Wilken and is used by permission.*

<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>
</tr>
</thead>
<tbody>
<tr>
<td>Pulaski County</td>
<td>23</td>
<td>1635CST</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G52)</td>
<td></td>
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<tr>
<td>1 NW Runyan Acres</td>
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<td>Faulkner County</td>
<td>23</td>
<td>1700CST</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G50)</td>
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<tr>
<td>Naylor</td>
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<td>Faulkner County</td>
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<tr>
<td>Vilonia</td>
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<tr>
<td>ARZ056</td>
<td>30</td>
<td>1100CST</td>
<td>1</td>
<td>1</td>
<td>Excessive Heat</td>
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<tr>
<td>Jefferson</td>
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</tbody>
</table>

An 83 year old woman was found deceased in her home, in Pine Bluff, as a result of heat-related stress. The woman's 81 year old sister was also found unconscious in the home and was taken to the hospital for treatment. The temperature inside the house was 101 degrees when medical personnel arrived. The house did have air-conditioning, but it was not being used.
### ARKANSAS, East

**Mississippi County**
- **Blytheville**
  - Time: 02 1815CST 1820CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage to Property: 0.01K
  - Character of Storm: Hail (0.75)

- **Blytheville**
  - Time: 02 1815CST 1820CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 5K
  - Estimated Damage to Property: Thunderstorm Wind

- **Gosnell**
  - Time: 02 1840CST 1845CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0.01K
  - Character of Storm: Hail (0.75)

**St. Francis County**
- **Forrest City**
  - Time: 10 2000CST 2005CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 15K
  - Character of Storm: Thunderstorm Wind

  A fence was damaged. Several trees and power poles were knocked down. One tree fell on a shed.

**ARZ026**
- **Craighead**
  - Time: 13 1200CST 1205CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 10K
  - Character of Storm: High Wind (G35)

  Winds gusts estimated at 40 mph knocked a second story wall at an apartment building under construction at Arkansas State University in Jonesboro.

**Lawrence County**
- **Black Rock**
  - Time: 19 0500CST 0600CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 1K
  - Character of Storm: Flash Flood

  One home had water reach up to its steps.

**Crawford County**
- **Brookland**
  - Time: 30 1215CST 1220CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 5K
  - Character of Storm: Thunderstorm Wind

  A few trees were blown down.

**Poinsett County**
- **Trumann**
  - Time: 30 1230CST 1235CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 50K
  - Character of Storm: Lightning

  The Providence Baptist Church in Trumann was destroyed by a fire started by lightning.

### ARKANSAS, Northwest

**Washington County**
- **Johnson**
  - Time: 12 1415CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Thunderstorm Wind (G61)

**Carroll County**
- **2 NW Eureka Spgs**
  - Time: 18 1354CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Hail (0.88)

- **3 ENE Beaver**
  - Time: 18 1427CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Hail (0.75)

**Madison County**
- **3 N Hindsville**
  - Time: 18 1600CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Thunderstorm Wind (G61)

  Thunderstorm winds estimated at 70 miles an hour blew trees down onto Highway 45.

**Washington County**
- **Window**
  - Time: 23 1556CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Thunderstorm Wind (G52)

  Thunderstorm winds estimated at 60 miles an hour blew down large tree limbs.

**Crawford County**
- **8 N Mountainburg**
  - Time: 23 1600CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Thunderstorm Wind (G52)

  Thunderstorm winds estimated at 60 miles an hour blew down large tree limbs.
## Storm Data and Unusual Weather Phenomena

**July 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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<td>Lake Vlg</td>
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<td>3 E Genoa</td>
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<td>Hail (1.00)</td>
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<td><strong>ATLANTIC OCEAN</strong></td>
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<tr>
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<td>Eastport Me To Stonington (Deer Isle) Me Out 25Nm</td>
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<td>9 E Bar Harbor</td>
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<td>Tidal Potomac Key Bridge To Indian Hd Md</td>
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<td>Chesapeake Bay Pooles Is To Sandy Pt Md</td>
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<td>Chesapeake Bay Drum Pt To Smith Pt Va</td>
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<td>Chesapeake Bay N Of Pooles Is Md</td>
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<td>Long Island Sound W Of New Haven Ct To Port Jefferson Ny</td>
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<td>Great Egg Inlet To Cp May Nj Out 20Nm</td>
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<td>ANZ250</td>
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<td>Merrimack River Ma And Out 20Nm To Plymouth Ma And Out 40Nm</td>
<td>15</td>
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<td>Marine Tstm Wind (G43)</td>
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</table>

The anemometer at WTNH-TV 8 in West New Haven reported a peak wind of 49 knots at 619 pm.

ANZ453

Cape May

ANZ250

Merrimack River Ma And Out 20Nm To Plymouth Ma And Out 40Nm

Rockport

Gloucester Buoy

23
### Storm Data and Unusual Weather Phenomena

#### July 2002

<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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<td><strong>ATLANTIC OCEAN</strong></td>
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<tr>
<td>ANZ50 Eastport Me To Stonington (Deer Isle) Me Out 25Nm</td>
<td>28 SE Bar Harbor</td>
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<td>1900EST</td>
<td>0</td>
<td>0</td>
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<td>Marine Tstm Wind (G35)</td>
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<tr>
<td>Wind gusts to 35 knots reported at the Mount Desert Rock Lighthouse.</td>
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<td>ANZ455 Cp Henlopen To Fenwick Is De Out 20Nm</td>
<td>Bethany Beach</td>
<td>19</td>
<td>1322EST</td>
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<td>0</td>
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<td>Marine Tstm Wind (G75)</td>
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<tr>
<td>A severe thunderstorm produced a measured wind gust to 75 knots (86 mph) at Bethany Beach.</td>
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<td>ANZ652 Chincoteague To Parramore Is Va Out 20Nm</td>
<td>Chincoteague to Paramore Island</td>
<td>19</td>
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<td>0</td>
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<td>Marine Tstm Wind (G35)</td>
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<tr>
<td>Wind gust of 35 knots measured at MFV.</td>
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<td>ANZ50 Eastport Me To Stonington (Deer Isle) Me Out 25Nm</td>
<td>18 SE Bar Harbor</td>
<td>23</td>
<td>1430EST</td>
<td>0</td>
<td>0</td>
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<td>Marine Tstm Wind (G37)</td>
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<td>Wind gusts to 37 knots reported at the Eastern Maine Shelf Buoy.</td>
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<td>Rockport</td>
<td>23</td>
<td>1458EST</td>
<td>0</td>
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<td>ANZ234 Buzzards Bay Ent Tower</td>
<td>Buzzards Bay</td>
<td>23</td>
<td>1515EST</td>
<td>0</td>
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<td>Marine Tstm Wind (G40)</td>
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<tr>
<td>WSR-88D</td>
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<td>ANZ250 Merrimack River Ma And Out 20Nm To Plymouth Ma And Out 40Nm</td>
<td>Stellwagen Bank</td>
<td>23</td>
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<td>0</td>
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<td>Marine Tstm Wind (G40)</td>
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<td>ANZ235 Rhode Island Sound</td>
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<td>Marine Tstm Wind (G40)</td>
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<td>ANZ231 Cape Code Bay</td>
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<td>Winds gusted to 52 knots at the Isles of Shoals observing station as severe thunderstorms moved through the area.</td>
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<td>ANZ455 Cp Henlopen To Fenwick Is De Out 20Nm</td>
<td>L.5 S Bethany Beach</td>
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<td>1640EST</td>
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<td>Marine Tstm Wind (G40)</td>
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<tr>
<td>A thunderstorm knocked down a couple of small tree limbs in South Bethany.</td>
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<td>Buzzards Bay Ent Tower</td>
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<td>ANZ236 Narragansett Bay</td>
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</tbody>
</table>

24
### Storm Data and Unusual Weather Phenomena

#### Location Date Time Local/ Standard Path Length (Miles) Path Width (Yards) Number of Persons Killed Injured Property Damage Crops Character of Storm

#### July 2002

#### Atlantic Ocean

ANZ 235  Rhode Island Sound WSR-88D

**Marine Tstm Wind (G40)**

<table>
<thead>
<tr>
<th>Location</th>
<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</th>
<th>Character of Storm</th>
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<tbody>
<tr>
<td>Bzrds Bay Ent Tower</td>
<td>28 2345 EST</td>
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<td>Marine Tstm Wind</td>
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</table>

#### California, Extreme Southeast

NONE REPORTED.

#### California, North Central

NONE REPORTED.

#### California, Northeast

**Mono County**

**June Lake**

12 1230 PST 0 0 0.50K Thunderstorm Wind (G58)

Downburst winds from thunderstorm estimated at 65-70 mph caused damage to docks on south side of June Lakes. Flying debris was observed but no injuries were reported.

**Lassen County**

32 ENE Susanville

12 1630 PST 0 0 0 0 Thunderstorm Wind (G63)3M

73 mph wind gust A line of severe thunderstorms moved across Lassen County CA between 5:30 pm and 6:30 pm PDT. An automated weather station measured a 73 mph wind gust during this time.

**Plumas County**

8 E Beckwourth

17 1245 PST 1230 PST 0 0 0 0 Hail (1.06)

A series of severe thunderstorms moved through southeastern Plumas and extreme southeast Lassen Co., CA. A spotter near Beckwourth, CA reported 1 1/16 inch hail and nearly 1/2 inch of rain in an hour in association with the storms.

**Lassen County**

7 SE Scotts

18 1130 PST 1145 PST 0 0 0 0 Hail (1.75) 1 3/4 inch hail

**Lassen County**

8 S Doyle

18 1250 PST 1350 PST 0 0 Flash Flood

A line of severe thunderstorms moved across southern Lassen Co., CA. Reports of golf-ball sized hail (1 3/4 inch) and flash flooding with mud flowing across highway 395.

**Nevada County**

5 NE Truckee/Tahoe Arp

18 1145 PST 1245 PST 0 0 Flash Flood

**Nevada County**

5 W Truckee

18 1200 PST 1500 PST 0 0 Urban/Sml Stream Fld

**Nevada County**

6 W Truckee

18 1215 PST 1230 PST 0 0 Hail (1.00)

Severe thunderstorms moving through Nevada Co., CA cause flash flooding with 3 to 4 inches of water running down the roads in Hirschdale, CA. and flooding along Trout Creek. Spotter reports of 1 inch hail also accompanied these storms.

**El Dorado County**

South Lake Tahoe

18 1230 PST 1330 PST 0 0 Urban/Sml Stream Fld

Heavy rain from thunderstorms cause street flooding in South Lake Tahoe, CA.
CALIFORNIA, Northeast

Mono County
10 W Lee Vining 18 1345PST 0 0 1K Flash Flood

CALTRANS reports highway 120 closed at Tioga Pass due to brief heavy downpours leading to flash flooding and rock slides as thunderstorms move across the region.

CALIFORNIA, Northwest

CAZ003>004-076 North Coast Interior - Upper Trinity River - Mendocino Interior
10 1200PST 0 0 Excessive Heat
12 1800PST

Record setting heat occurred on three consecutive days across the interior of northwest California. Ukiah set a record on the 10th of 110 degrees. A few other locations and peak temperatures: Weaverville 115, Laytonville 111, and Big Bar 114.

Del Norte County
25 NE Crescent City 13 1200PST 0 0 Wild/Forest Fire
31 1200PST

The Sour Biscuit Fire started by lightning in southwest Oregon and spread into California. By the end of the July, 19,513 acres had been burned in California - primarily in the Smith River National Recreation Area of Six Rivers National Forest. The fire continued into August. No injuries were reported or structures damaged in July.

CALIFORNIA, South Central

Tulare County
18 ENE Porterville 04 2200PST 0 0 Wild/Forest Fire
05 1700PST

Powerhouse wildfire...details unknown at time of filing 7/5/02.

CAZ089>092 W Central S.J. Valley - E Central S.J. Valley - Sw S.J. Valley - Se S.J. Valley
09 1530PST 2 0 Excessive Heat
15 2000PST

Strong high pressure over the Western United States coupled with subtropical moisture flowing northwestward into Central California produced near-record high temperatures, record high minimum temperatures, and Heat Index readings above 105F from the 9th through the 15th of the month. Humidities were elevated while temperatures reached over 100F in locations throughout the Central and Southern San Joaquin Valley during this period. As an example on one of the hottest days, the 11th, the highest temperatures included 108F at Lemoore, Bakersfield, and Taft, 109F at Fresno and Arvin, 110F at Delano, and 111F at Wasco. In other areas of California, Southern Oregon, and Nevada numerous high and low temperature records were set during this time period. M60OU, M65OU

Mariposa County
9.5 NNW Yosemite Vlg 11 1400PST 0 0 Wild/Forest Fire
31 2359PST

The Wolf Fire was a lightning caused fire. Inside Yosemite National Park it was managed as a resource burn through the remainder of July, through August, and had burned approximately 1150 acres through September 10th. No structures were lost nor were there any injuries.

Mariposa County
15 NE Yosemite Vlg 12 1317PST 0 0 Thunderstorm
13 1357PST

A radar signature denoted a strong thunderstorm was observed at the crest of the Southern Sierra Nevada between Tioga Pass and Tuolumne Meadows within Yosemite National Park.

Tulare County
25 NE Johnsdonale 17 1540PST 0 0 Thunderstorm
17 1718PST

As denoted by radar signature, a strong thunderstorm cell likely provided heavy rainfall in a remote, sparsely populated area of the Tulare County Mountains during the late afternoon of the 17th.

Kern County
.5 SW Bodfish to 1 E Lake Isabella 21 1140PST 0 0 3.8M Wild/Forest Fire
24 1800PST

The Deer Fire was man-caused, was pushed by the typically strong up-valley southwest wind through the Kern River Canyon, and burned 1800 acres. The cost to contain the fire was $1.3M. However there were 47 primary residences, 1 commercial building, and 46 out-buildings lost due to this fire with an estimated value of $2.5M. There were no fatalities.
CALIFORNIA, South Central

Tulare County

The McNally Fire was started by an illegal campfire. It charred 90,500 acres through July 31st and ultimately charred 150,696
acres. The fire was located in Tulare County near the town of Johnsondale and is the largest fire in Sequoia Park history. This fire
threatened some of the park's historic Giant Sequoia Groves although they were successfully protected. There were 14 structures
lost. At one time over 2,000 firefighters plus air support were being used to fight the fire. Cost to contain the fire was in excess of
$14M by 7/31/02. The final cost assigned to this fire was $45.7M at containment on August 29th.

Mariposa County

The Deltoid Fire burned an estimated 15 acres adjacent to Half Dome within Yosemite National Park. There were no injuries or
damage reported from this apparently man-started fire.

CALIFORNIA, Southeast

San Bernardino County

Strong thunderstorm winds knocked down several trees and powerlines and blew the roof off a garage. A 50-foot antenna was also
blown down by the wind.

CALIFORNIA, Southwest

San Diego County

A brush fire that began the afternoon of June 30, was brought under control after burning 130 acres. No structures were destroyed
nor injuries reported.

Riverside County

A brush fire, that began in the Santa River Valley on June 30, continued to smoulder until late morning.

San Diego County

A 5 acre brush fire burned part of the roof of a large grocery store.

CAZ055

The third day of temperatures over 100 degrees Fahrenheit, led to 9 people being admitted to the hospital for heat exhaustion. A
smog alert was also in effect due to the hot stagnant air over the area.

San Bernardino County

Three acres of brush burned.

San Bernardino County

Seventy acres of brush was burned in the Santa Ana River bed. Two firefighters were hospitalized with heat exhaustion.

San Diego County

Named the "Garnet" Fire, it began in the mountains ten miles east of Pine Valley. The fire actively burned down the east slopes
toward the desert floor with spotting up to 1/4 mile ahead of the fire. It was contained three days later after 1166 acres had burned.
No structures were lost. The cost of fighting the fire was $925,000 and 110 fire fighters were involved.

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>
<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>CAZ055 San Bernardino County Mountains</td>
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</table>
Temperatures of 110 degrees Fahrenheit, inside a condominium in the Coachella Valley, led to the death of one woman and heat exhaustion of another. F77PH

Heavy showers, 1.6 inches of rain in 60 minutes, from thunderstorms over the wilderness area of the Sawtooth Mountains in east San Diego County, flooded Storm Canyon Wash, Canebrake Wash, Vallecito Creek, Bow Willow Creek, Carrizo Creek, and several unnamed and normally dry washes. These in turn washed over County Road S2 in several locations. Standing water was still present 24 hours later in the Agua Caliente Springs area.

During this period, daytime maximum temperatures over the desert areas ranged between 104 and 109 degrees Fahrenheit with early morning minimum temperatures ranging between 81 and 92 degrees. One man, separated from his companions on or before July 16, succumbed to heat exhaustion. His body was found the morning of July 25, near the Interstate 8 freeway off ramp to Jacumba at approximately 3200 feet M.S.L.. M21OU

A 30 acre brush fire spread throughout Talbert Regional Park.

Heavy showers from thunderstorms over the San Bernardino Mountains flooded washes draining down the north and east slopes, which overflowed Highway 247 in several locations, and washed out Highway 18 near the intersection with Camp Rock Road.

A ten acre brush fire near Interstate 15, jumped across the freeway, tying up traffic for most of the afternoon. One firefighter was treated for heat exhaustion.

Two brush fires consumed 37 acres along and just off of Highway 18 at the west end.

A 3 acre brush fire closed the intersection of Highways 71 and 91.

Strong winds and extremely dry conditions fanned a house fire. As a result five outbuildings were destroyed.

A young girl, left inside a van, died from heat stroke. Outside air temperatures reached 102 degrees Fahrenheit. F3VE

A brush fire in Carbon Canyon, threatened several homes before being brought under containment. About 5 acres were burned, and no structures were damaged or lost.

A signal flare fired during military exercises started a brush fire that damaged six abandoned structures on the Southern California
CALIFORNIA, Southwest

San Diego County
5 N Santa Ysabel to 6 N Santa Ysabel
25 1834PST  1800PST  0 0  Wild/Forest Fire
Brush fire burned 75 acres on the Santa Ysabel Indian reservation. Six residents were evacuated. Motor vehicle traffic on Highways 76 and 79 was halted for 11 hours.

Riverside County
1.5 E Moreno Valley
26 1916PST  2359PST  0 0  Wild/Forest Fire
Brush fire.

San Diego County
.8 NW San Ysidro
26 2251PST  2300PST  0 0  Wild/Forest Fire
Brush fire on hillside.

San Bernardino County
.5 N Crestline
28 0512PST  0700PST  0 0  Wild/Forest Fire
Brush fire.

San Bernardino County
4 N San Bernardino
29 0753PST  0813PST  0 0  Wild/Forest Fire
Brush fire at junction of Highway 30 and Interstate 215.

Orange County
3 SW Garden Grove
29 0850PST  0854PST  0 0  Wild/Forest Fire
Brush fire along State Road 22, just west of Newland Avenue.

San Diego County
2 E Julian to San Felipe
29 1308PST  2359PST  0 0 2M  Wild/Forest Fire
Named the "Pines Fire", it began when a helicopter nipped a power line. The resulting sparks started the fire. As July closed, the fire was only 15% contained, had burned 21 structures and 17,600 acres. The cost of fighting the fire in July alone was $2.9 million and 2149 personnel had been assigned to the fire.

CALIFORNIA, Upper

Siskiyou County
Tulelake
23 1700PST  0 0  Tstm Wind/Hail
See below.
A spotter for a local TV station reported 1 inch hail in a thunderstorm near Tulelake during the afternoon of 07/23/02. The report was received by this station several hours after the event. No warning was issued based on radar evidence and no other spotter reports were received.

The spotter reported extensive damage to her vegetable garden and minor damage to her car. She also reported that a farmer neighbor lost on 80 acre mint crop, and another neighbor has extensive damage to his potato crop.

CALIFORNIA, West South Central

NONE REPORTED.

CALIFORNIA, Western

CAZ007
Alameda / Contra Costa Counties
10 0800PST  0 0 50K  Blizzard
Storm Data and Unusual Weather Phenomena

July 2002

CARIBBEAN SEA AND TROPICAL ATLANTIC

AMZ454
St Augustine To Flagler Beach Fl Out 20Nm
5 N Crescent Beach to 5 NE Crescent Beach
01 1130EST 1200EST
2 Waterspouts reported.

AMZ651
Deerfield Beach To Ocean Reef Fl
3 SE Government Cut
01 1452EST 0 0 Waterspout
A boater sighted a waterspout in the Atlantic just east of Crandon Park on Key Biscayne.

AMZ651
Deerfield Beach To Ocean Reef Fl
5 NW Miami Beach
02 1032EST 0 0 Waterspout
Several waterspouts were sighted in the Atlantic off both northeast Miami-Dade and southeast Broward counties.

AMZ651
Deerfield Beach To Ocean Reef Fl
2 SE Port Everglades
03 0813EST 0 0 Waterspout
Two waterspouts were sighted in the Atlantic, one southeast of Fort Lauderdale and the other 10 miles offshore Miami Beach.

AMZ158
Cp Lookout To Surf City Nc Out 20Nm
North Topsail Beach
05 2030EST 0 0 Marine Tstm Wind (G46)

AMZ370
S Santee R Sc To Savannah Ga 20 To 40Nm
41 SE Folly Beach
06 0200EST 0 0 Marine Tstm Wind (G35)

AMZ374
Savannah Ga To Altamaha Sd Ga 20 To 60Nm
45 SE Tybee Island
06 0530EST 0 0 Marine Tstm Wind (G35)

AMZ670
Jupiter Inlet To Deerfield Beach Fl 20 To 60Nm
15 E Jupiter Inlet
07 0715EST 0 0 Waterspout
A pilot sighted a waterspout in the Atlantic.

AMZ550
Flagler Beach To Cocoa Beach Fl Out 20Nm
5 N Cape Canaveral
13 1255EST 0 0 0 0 Marine Tstm Wind (G44)
A wind gust to 44 knots was reported at a NASA weather tower.

AMZ550
Flagler Beach To Cocoa Beach Fl Out 20Nm
5 N Cape Canaveral
13 1819EST 0 0 0 0 Marine Tstm Wind (G39)
A thunderstorm wind gust to 39 knots was reported at a NASA weather tower.

AMZ252
Cp Fear To Little R Inlet Nc Out 20Nm
Little River Inlet
14 1535EST 1550EST 0 0 Waterspout
Public reported a waterspout off the coast of Carolina Beach.

AMZ650
Jupiter Inlet To Deerfield Beach Fl Out 20Nm
20 SE Jupiter Inlet
17 0807EST 0 0 Waterspout
A pilot saw a waterspout in the Atlantic.

AMZ651
Deerfield Beach To Ocean Reef Fl
5 E Miami Beach
18 0834EST 0 0 Waterspout
A SKYWARN spotter reported a waterspout in the Atlantic.

AMZ555
Cocoa Beach To Jupiter Inlet Fl Out 20Nm
4 W Melbourne Beach
20 1430EST 0 0 0 0 Marine Tstm Wind (G45)
A thunderstorm wind gust to 45 MPH was reported at Melbourne International Airport.

AMZ354
Savannah Ga To Altamaha Sd Ga Out 20Nm
20 SE Tybee Island
20 1800EST 0 0 Marine Tstm Wind (G35)

AMZ550
Flagler Beach To Cocoa Beach Fl Out 20Nm
5 N Cape Canaveral
21 1640EST 0 0 0 0 Marine Tstm Wind (G39)
Thunderstorm winds produced winds gusts to 43 MPH at the Cape Canaveral NASA forecast facility.

AMZ550
Flagler Beach To Cocoa Beach Fl Out 20Nm
5 N Cape Canaveral
22 1845EST 0 0 0 0 Marine Tstm Wind (G39)
A thunderstorm wind gust to 45 MPH was recorded at a NASA weather tower.
### Storm Data and Unusual Weather Phenomena

#### July 2002

<table>
<thead>
<tr>
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<th>Date</th>
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**Notes:**
- A waterspout was sighted in the Atlantic just offshore Briny Breezes.
- A SKYWARN spotter reported a waterspout in the Atlantic just offshore Fort Lauderdale.
- Thunderstorm winds produced a gust to 45 mph at a NASA weather tower.
- Locally heavy rainfall in the Hayman burn area washed out a secondary road. Debris associated with the runoff, blocked a culvert, forcing the water to wash out the road.

---

31
COLORADO, Central and Northeast

Strong thunderstorm winds below the roofs of a barn and shed.

Douglas County
6 N Larkspur
03 1400MST 1500MST
0 0 Flash Flood

Heavy rain washed out a frontage road. The Mountain Ranch subdivision was also flooded.

Weld County
4.5 E Johnstown
03 1404MST
0 0 Hail(0.75)

Weld County
3 W Greeley
03 1416MST
0 0 Hail(0.88)

Weld County
5 E Windsor
03 1440MST
0 0 Hail(0.75)

Larimer County
6 SE Ft Collins
03 1445MST
0 0 Hail(0.75)

Larimer County
7 E Ft Collins
03 1450MST
0 0 Hail(1.50)

Larimer County
1 NE Ft Collins
03 1518MST
0 0 Hail(1.00)

Douglas County
Southwest Portion
04 1610MST 1800MST
0 0 Flash Flood

Jefferson County
South Portion
04 1610MST 1800MST
0 0 Flash Flood

Heavy rain again caused flooding problems in the Hayman burn area. In Jefferson County, Gulch Road, which connects to Forest Service Road 211 was washed out. In Douglas County, high water washed out some smaller access roads as well, east of a line extending from Signal Butte to Deckers.

Douglas County
West Portion
10 1300MST 1500MST
0 0 Flash Flood

Jefferson County
South Portion
10 1300MST 1500MST
0 0 10K Flash Flood

Runoff from heavy rainfall in the Hayman burn area flooded Lost Creek Ranch with up to 18 inches of water, just off of State Highway 126. Floodwaters ruined a very expensive rug in the lodge. Also, a driveway to another local residence was washed out. In Douglas County, runoff damaged some of the smaller access roads in the Turkey Creek Drainage.

Jefferson County
6 SW Deckers
10 1348MST
0 0 Hail(0.75)

Douglas County
3 S Sedalia
10 1408MST
0 0 Hail(0.75)

Douglas County
5 SSE Parker
10 1437MST
0 0 Hail(1.00)

Douglas County
6 SE Parker
10 1440MST
0 0 Hail(3.00)

Arapahoe County
1 N (Apa)Englwood Arap 1 10 1507MST
0 0 Hail(2.00)

Arapahoe County
1 NW (Apa)Englwood A 10 1510MST
0 0 Hail(1.25)

Arapahoe County
1 E (Apa)Englwood Arap 1 10 1515MST
0 0 Hail(0.75)

Broomfield County
Broomfield
10 1647MST
0 0 Hail(0.75)
### Storm Data and Unusual Weather Phenomena

#### COLORADO, Central and Northeast

<table>
<thead>
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<th>Location</th>
<th>Date</th>
<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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Heavy rain caused flash flooding problems in the Hayman burn area. South Deckers Road, State Highway 126, had to be closed as 4 feet of water inundated a section of the roadway. The forest service had to remove 40 truck loads of sediment from the area. Also, in southwest Douglas County, a secondary service road was washed out by heavy debris flow.

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A small tornado touched down briefly but did no damage.

#### COLORADO, East Central

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Drought conditions worsened from extreme to exceptional during the month of July across east-central Colorado. Hot temperatures and much below normal rainfall during the month continued to stress crops and livestock in the area.

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### Storm Data and Unusual Weather Phenomena

#### July 2002

**COLORADO, South Central and Southeast**

COZ058-081

- **Eastern Lake County / Western Mosquito Range Above 11000 Ft - Leadville Vicinity / Lake County Below 11000 Ft - Eastern Sawatch Mountains Above 11000 Ft - Western Chaffee County Between 9000 & 11000 Ft - Central Chaffee County Below 9000 Ft - Eastern Chaffee County / Western Mosquito Range Above 9000 Ft - Saguache County West Of Continental Divide Below 10000 Ft - Saguache County East Of Continental Divide Below 10000 Ft - La Garita Mountains Above 10000 Ft - Upper Rio Grande Valley / Eastern San Juan Mountains Below 10000 Ft - Eastern San Juan Mountains Above 10000 Ft - Del Norte Vicinity / Northern San Luis Valley Below 8500 Ft - Alamosa Vicinity / Central San Luis Valley Below 8500 Ft - Southern Sangre De Cristo Mountains Above 11000 Ft - Southern Sangre De Cristo Mountains Below 10000 Ft - Northwest Fremont County Above 8500 Ft - West / Central Fremont County Below 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**

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A long term drought, which began to affect Colorado in earnest in May, continued through July. Conditions were described as severe to extreme during May, June, and through July. Snow pack had essentially melted by early May. Streams and rivers were flowing a very low levels, if at all. The affect on agricultural interests and recreation (rafting and kayaking) increased into and through July. The threat for major wildfires continued, but windy conditions subsided and some rain fell in July. Water conservation measures were implemented in nearly all communities in the area in June, and continued through July.

The Hayman Fire, largest in Colorado this century, was fully contained on July 2nd.

Heavy rain over portions of the Hayman Fire Burn area caused ash and water to rush across roadways in the Turkey Creek Drainage.

Heavy rainfall over portions of the Hayman Fire Burn area in the vicinity of Turkey Creek and West Creek drainages caused fire fighters to go to higher ground and washed out some forest roads.

Very heavy rainfall in excess of six inches caused flash flooding of Wolf Creek...Granada Creek and Plum Creek drainage basins in central Prowers county. A bridge over Wolf Creek just north of Granada was damaged. No dollar amount to fix the bridge was available at this time.

Very heavy rainfall in excess of six inches caused some flooding of county roads and low areas in the Sand arroyo basin.
COLORADO, South Central and Southeast

El Paso County

1 S Colorado Spgs to 8 S Colorado Spgs

Slow moving thunderstorms dropped from 1 to 3 inches of rainfall over much of Colorado Springs...causing some brief and minor flooding of Fountain Creek in and south of Colorado Springs. Their was no known damage.

Huerfano County

Walsenburg

Rainfall of 1 to 3 inches in a short time frame caused flooding of irrigation and other ditches as well as areas of deep water in parking lots in the vicinity of Walsenburg.

Saguache County

15 SW Saguache

Pueblo County

Pueblo West

Teller County

10 NW Woodland Park

Heavy rain forced incident crews in the Hayman Fire Burn area to head for safe spots. Reports of water and debris washing across the roadways were noted.

El Paso County

Ft Carson

El Paso County

Ft Carson

El Paso County

6 SSW Colorado Spgs

El Paso County

5 NW Colorado Spgs

El Paso County

10 NNE Colorado Spgs

Pueblo County

Pueblo West

Pueblo County

Pueblo West

Pueblo County

5 N Beulah

El Paso County

5 SW Ramah

Kiowa County

Haswell

Prowers County

Lamar

Baca County

2 E Vilas

Storm Data and Unusual Weather Phenomena

July 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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<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
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</table>
COLORADO, South Central and Southeast

Las Animas County
6 SE Kim 14 1515MST 1520MST 0 0 Hail(1.00)

Chaffee County
6 WSW Buena Vista to 9 SW Buena Vista 22 1900MST 2015MST 0 2 100K Flash Flood

Intense rainfall and hail due to slow moving thunderstorms fell on steep slopes composed of loose soil and rock. The worst rock and landslides in decades occurred on county road 306, which is in the Cottonwood Creek drainage north of Mt. Princeton. The debris on county road 306 was one mile long and over 10 feet deep in spots. An elderly couple was swept to the side of county road 306, and mud and rock flowed into their van. They suffered hypothermia and abrasions and bruises. County road 306 was closed for clean up for two weeks. County road 162, in the Chalk Creek drainage south of Mt. Princeton also experienced several mud and rock flows.

Kiowa County
10 S Sheridan Lake 28 1730MST 1735MST 0 0 Hail(0.88)

Prowers County
8 N Granada 28 1744MST 1749MST 0 0 Hail(0.75)

Custer County
15 SE Westcliffe 29 1447MST 1457MST 0 0 Hail(1.00)

Custer County
1 S Rosita 29 1530MST 1535MST 0 0 Hail(0.75)

COLORADO, West

COZ001>014-017>023 Lower Yampa River Basin - Central Yampa River Basin - Roan And Tavaputs Plateaus - Elkhead And Park Mountains - Upper Yampa River Basin - Grand Valley - Debeque To Silt Corridor - Central Colorado River Basin - Grand And Battlement Mesas - Gore And Elk Mountains/Central Mountain Valleys - Central Gunnison And Uncompahgre River Basin - West Elk And Sawatch Mountains - Flattop Mountains - Upper Gunnison River Valley - Uncompahgre Plateau And Dallas Divide - Northwestern San Juan Mountains - Southwestern San Juan Mountains - Paradox Valley / Lower Dolores River Basin - Four Corners / Upper Dolores River Basin - Animas River Basin - San Juan River Basin

01 0000MST 0 0 Drought
31 2359MST

Extreme to exceptional drought conditions continued throughout western Colorado during the month of July. Water restrictions became common across much of the area. The persistent drought continued a heightened risk for wildfires and caused problems for agricultural interests. See the August 2002 Storm Data publication for a continuation report on the drought in western Colorado.

Garfield County
10 N Glenwood Spgs 01 0000MST 0 0 3.5M Wild/Forest Fire
10 2359MST

The Coal Seam fire which began in early June (see the June 2002 Storm Data publication) was contained on July 10th. The fire destroyed 29 residences and 14 other buildings. Nearly 3000 people were evacuated from that area. The cost of fighting the fire was in excess of 7 million dollars.

La Plata County
2.5 ENE Hermosa to 14 NNE Bayfield 01 0000MST 0 0 8M Wild/Forest Fire
17 2359MST

The Missionary Ridge fire began in early June (see the June 2002 Storm Data publication) and was contained on July 17th. The fire destroyed approximately 50 homes and 22 other structures. The fire consumed over 70,000 acres. The cost of fighting the fire exceeded 40 million dollars.

Archuleta County
17 NW Chimney Rock to 17 NNW Chimney Rock 01 0000MST 0 0 Wild/Forest Fire
17 2359MST

The Missionary Ridge Fire burning in La Plata county moved into the northwest corner of Archuleta county at the end of June (see the June 2002 Storm Data publication). Containment of the wildfire was on the 17th of July. Several hundred acres of forest were consumed.

Gunnison County
7 NNE Sapinero to 9 NNW Sapinero 01 0000MST 0 0 Wild/Forest Fire
02 2359MST

36
COLORADO, West

The Soap Creek Fire was ignited by lightning in late June (see the June 2002 Storm Data publication). This wildfire burned several hundred acres of vegetation before it was contained on July 2nd.

Moffat County

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<tr>
<th>Location</th>
<th>Date</th>
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</table>

The Bear Fire in Dinosaur National Monument began in late June (see the June 2002 Storm Data publication) and was contained on July 4th. The fire consumed 4,800 acres of vegetation. The cost of fighting the fire was $1.1 million.

San Miguel County

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<th>Location</th>
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<td>15 WSW Telluride to 12 WSW Telluride</td>
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</table>

The West Beaver Fire began in mid June (see the June 2002 Storm Data publication) and was contained on July 1st. Lightning ignited the fire on the forested east slope of Lone Cone Mountain and consumed 580 acres. The cost of fighting the fire was $1.5 million.

Moffat County

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The Pinyon Ridge Fire began in mid June (see the June 2002 Storm Data publication) and was contained on July 1st. The fire consumed 2,400 acres of vegetation. The cost of fighting the fire was $800 thousand dollars.

Garfield County

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<th>Location</th>
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<th>Time Local/Standard</th>
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</thead>
<tbody>
<tr>
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<td>Wild/Forest Fire</td>
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</tbody>
</table>

Lightning ignited the Spring Creek Fire in mid June (see the June 2002 Storm Data publication) and was contained on July 21st. 62 homes, 40 other buildings, and the town of Newcastle's only water supply were threatened by the fire. A total of 13,490 acres of forest were consumed. The cost of fighting the fire was $6.9 million dollars.

Gunnison County

<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>
<th>Number of Persons Injured</th>
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<tbody>
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<td>3 N Gunnison to 6 N Gunnison</td>
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</table>

The Wiley Ridge Fire which began in mid June (see June 2002 Storm Data publication) was contained on July 2nd. The fire burned over a thousand acres of forest land and cost nearly 200 thousand dollars to fight.

La Plata County

<table>
<thead>
<tr>
<th>Location</th>
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<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
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<th>Character of Storm</th>
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</thead>
<tbody>
<tr>
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<td>2.5M Wild/Forest Fire</td>
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</table>

The Valley Fire was ignited by lightning in the Falls Creek area adjacent to the Animas Valley in late June (see June 2002 Storm Data publication). 22 homes in the Falls Creek subdivision were destroyed. The Valley Fire consumed 400 acres and became part of the Missionary Ridge Fire Complex. The complex was contained on July 17th.

Garfield 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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<tbody>
<tr>
<td>37 N Glenwood Spgs to 38 N Glenwood Spgs</td>
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</table>

This lightning caused wildfire became known as the Big Fish fire and occurred in the Flat Tops Wilderness area of the White River National Forest. This fire continued to burn through the end of July and was included as part of the Lost Green Complex near the end of the month. See the August 2002 Storm Data Publication for a continuation on this fire.

La Plata County

<table>
<thead>
<tr>
<th>Location</th>
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Heavy rains resulted in minor mudslides which covered County Road 501 just south of Vallecito Reservoir. The road was closed temporarily until the mud and debris was removed.

San Miguel County

<table>
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<tr>
<th>Location</th>
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</table>

This wildfire was named the Burn Canyon fire and occurred in the Uncompahgre National Forest. The fire consumed 31,300 acres of forest. The cost of fighting the fire was $35.3 million dollars. Several structures were threatened and residences in the community of Redvale were evacuated.

Routt County

<table>
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</table>

This lightning caused wildfire occurred in the Routt National Forest and was named the Hinman fire. Several residences and commercial structures were threatened by the fire. The fire continued to burn through the end of July. See the August 2002 Storm Data publication for a continuation on this fire.
## Storm Data and Unusual Weather Phenomena

### COLORADO, West

#### Gunnison County
- **10 W Gunnison**: Lightning caused wildfire named the Stueben Fire, occurred in the Gunnison National Forest. The fire consumed 693 acres of forest. The cost of fighting the fire was 768 thousand dollars. Livestock and campers were evacuated from the area.
- **1800MST**: Lightning caused wildfire consumed 366 acres of forest and destroyed one structure. The cost of fighting the fire was 261 thousand dollars.

#### Routt County
- **15 SE Steamboat Spgs to 14 SE Steamboat Spgs**: Lightning caused wildfire occurred in the Routt National Forest and was named the Green Creek Fire. Three hundred residences were threatened by this fire. 2,370 acres of forest were consumed by the fire before becoming part of the Lost Green Complex on the 20th of July. This fire continued to burn through the end of July. See August 2002 Storm Data Publication for a continuation on this fire.

#### Rio Blanco County
- **40 E Meeker to 41 E Meeker**: Lightning caused wildfire occurred in the Flat Tops Wilderness area of the Routt National Forest and was named the Los Lakes Fire. 1,650 acres of timber were consumed by the fire prior to becoming part of the Lost Green Complex on July 20th. This fire continued to burn through the end of the month. See the August 2002 Storm Data Publication for a continuation on this fire.

### Mesa County
- **Orchard Mesa**: Strong outflow from a thunderstorm blew down three power poles and a number of trees in Orchard Mesa. Power was restored to the community about an hour after the power lines went down.

### Mesa County
- **(Gjt) Walker Arpt**: Outflow from a thunderstorm picked up 900 pounds of tie downs at Walker Field Airport and threw them across the ramp.

### Montezuma County
- **15 S Cortez**: Lightning caused wildfire was named the East Marble fire. The fire consumed 366 acres of forest and destroyed one structure. The cost of fighting the fire was 261 thousand dollars.

### Montezuma County
- **Stoner**: Hail stones up to one inch in diameter damaged several RVs, campers, and trailers at the Stoner Creek campground.

### Garfield County
- **New Castle to Rifle**: Nuisance flooding and mudslides occurred along interstate 70 in New Castle.

### Garfield County
- **Rifle**: Flash flooding in Hubbard Gulch and Government Creek damaged 11 buildings, including homes and businesses, and tore out a section of a road and a culvert. The fairgrounds were also damaged. The flooding was designated an event which occurs only once every 400 years in the Rifle area.

### Garfield County
- **Rifle**: A thunderstorm produced heavy rain over the Roan Plateau north of Rifle with heavy runoff flowing into Government Creek. One and a half inches of rain was estimated to have fallen in a half hour. Minor flooding occurred in parks and open fields.

### San Miguel County
- **3 E Telluride to 3 ENE Telluride**: Several high mountain roads were washed out.

### La Plata County
- **15 ENE Durango**: Flash Flood

### Storm Data and Unusual Weather Phenomena

<table>
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</table>
COLORADO, West

A flash flood trapped 30 vehicles north of County Road 240 on County Road 501 as a portion of County Road 501 washed out below Red Creek. 400 pound boulders and large trees were deposited onto the road.

La Plata County

6 W Durango

22 1530MST 1615MST

0 0

Heavy Rain

A heavy rain shower produced 1.50 inches of rain within a 45 minute period in the West Durango subdivision.

3 N Ignacio

22 1600MST 1800MST

0 0

2K 2K Urban/SmL Stream Fld

An irrigation ditch overflowed due to heavy rain and flooded a farmyard and fields with water 2 to 3 feet deep. A barn, garage, and corral sustained minor damage.

La Plata County

11 NE Durango to 14 NE Durango

23 1915MST 2330MST

0 0

400K Flash Flood

Flash floods with heavy debris content cascaded across County Road 240, near where the road intersects with County Road 243. A wall of water 12 to 15 feet high came roaring down Shearer Creek. Further down the road from Shearer Creek, five vehicles (four with occupants) were swept off the road and into flooded streams. The flash flood waters were accompanied by large trees up to 2 feet in diameter and boulders up to 4 feet in diameter. Debris up to 8 feet deep was deposited on the road and private properties. Debris four feet deep covered a bridge. At least one house was damaged and a parked truck was heavily damaged. The force of the water and debris tore out a 50 foot section of reinforced steel guard rail and carried away concrete road barricades. No injuries were reported, though at least 35 people had to be rescued or evacuated. Additional flash floods in the Missionary Ridge burn area occurred later in the evening and also produced large amounts of debris which closed many roads. The later flash flooding also resulted in some property damage in the Vallecito Lake community.

La Plata County

6 N Durango to 10 N Durango

23 2230MST 2345MST

0 0

Flash Flood

Flash floods deposited up to two feet of mud and rocks across County Road 250 along the east side of the Animas Valley.

Ouray County

6 S Ouray

25 1300MST 1315MST

0 0

Flash Flood

Heavy rainfall resulted in a mudslide which closed U.S. Highway 550 over the San Juan Mountains for about five hours. The mud covered both lanes up to 4 feet deep along a 100 foot stretch of road.

Routt County

30 SW Steamboat Spgs

26 1200MST 2359MST

0 0

Wild/Forest Fire

This lightning caused wildfire occurred in the Routt National Forest and was named the Big Fish Fire. This fire was included into the Lost Green Complex. See the Lost Green Complex storm data entry for a continuation on this fire.

Montrose County

7 NNW Paradox

28 1630MST

0 0

Funnel Cloud

Montezuma County

9 SE Cortez

29 1800MST 2359MST

0 0

Wild/Forest Fire

This lightning caused fire started in Mesa Verde National Park and was named the Long Mesa Fire. Mesa Verde National Park was closed and evacuated. Eighty residences and several of the National Park's offices and management buildings were threatened. This fire continued into the month of August. See the August 2002 Storm Data Publication for a continuation on this wildfire.

Rio Blanco County

20 E Rangely

30 0000MST 2359MST

0 0

Wild/Forest Fire

This lightning caused fire was named the North Rarcus Fire. This fire continued into the month of August. (See the August 2002 Storm Data publication for a continuation of this wildfire report)

Garfield County

7 NE Carbondale to 8 NE Carbondale

31 0000MST 2359MST

0 0

1M Wild/Forest Fire

A construction crew sawing through rebar ignited a forest fire which became known as the Panorama Fire. The rate of fire spread increased to nearly 1000 acres per hour due to moderate winds. 2400 acres of trees were consumed by the end of the day. Four houses were destroyed and another was damaged in the Spring Creek Reservoir area. More than 300 people were evacuated from over 200 homes in five subdivisions. The Panorama Fire continued into the month of August. See the August 2002 Storm Data publication for a continuation of this wildfire report.

39
Severe thunderstorms moving through Hartford County downed a large tree onto a pickup truck in Farmington, which resulted in one injury. The storms also downed trees and wires in West Hartford, Hartford, and Glastonbury. A Skywarn spotter in Wethersfield measured a wind gust to 60 mph as the storms moved through.

An isolated severe thunderstorm downed large branches in Canton and Burlington. Quarter sized hail fell in Windsor.

Severe thunderstorms downed wires in Somers and large trees in Simsbury.

Smoke, from many forest fires across the Nemiscau region of northern Quebec, became trapped under a subsidence inversion, and was transported south across northwestern Connecticut from the evening hours of July 5, to the late evening of July 7. The forest fires were sparked by exceptionally hot and dry weather over that part of Canada followed by an unusual amount of thunderstorm activity, resulting in many lightning strikes. The circulation between high pressure over Hudsons Bay and a low pressure off the Canadian Maritimes transported the smoke southward. The smoke obscured the sky, and even reduced surface visibilities to as low as one mile, especially on the early morning of July 7. Advisories were issued warning people with respiratory problems to remain indoors and all individuals to curb outside activity. No major problems were reported to the National Weather Service as a result of this smoke. By late Sunday, July 7, the low pressure weakened and moved further east, allowing the wind to back into more of a westerly direction, finally dissipating the smoke.

Thunderstorms erupted ahead of cold front, on the afternoon of July 19 across Litchfield County. One of the storms became briefly severe as it moved across the town of Goshen. The winds from the storm knocked down some trees in that town.

Thunderstorms erupted ahead of cold front, on the afternoon of July 23. Since the air mass ahead of the front was hot and humid, and winds aloft rather strong, two of the storms became severe. Thunderstorm winds knocked down many trees and wires in the town of Salisbury. On of the trees fell onto a store selling antiques, causing minimal damage to that structure. Another tree fell on a car, partially crushing it. Later, a few trees were also blown down by a separate storm in the town of New Milford. The storms temporarily knocked out power to about 1,000 customers in northwest Connecticut.

Temperatures rose into the mid and upper 90s across interior Southern Connecticut and into the lower and mid 90s along the shores of Long Island Sound. High temperatures and humidities combined to produce heat indices from 100 to 105 degrees across Connecticut.
the region, but especially across interior Southern Connecticut. In Greenwich, News Radio 88 (WCBS) reported that a 92 year old man died in his apartment, which was not air conditioned.

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DELAWARE

DEZ001>004
New Castle - Kent - Inland Sussex - Delaware Beaches
01 0000EST 2359EST 0 0 0 0 0 Drought

The combination of an unseasonably warm July and below normal monthly precipitation intensified the drought across Delaware. On a county weighted average July monthly precipitation was 2.3 inches in Sussex County, 3.3 inches in Kent County and 1.8 inches in New Castle County. Normal is around 3.9 inches. Monthly precipitation totals at the New Castle County Airport was 1.40 inches and in Georgetown (Sussex County) was 2.14 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. On July 18th the State Drought Advisory Committee urged residents and businesses to voluntarily cut water usage by 10 percent to stave off restrictions, especially in the northern half of New Castle County. Demand for water dropped after this request. Nevertheless, without adequate precipitation low streamflow daily records were being set for the Brandywine and White Clay Creeks. Groundwater monitoring wells were all near or at record lows for the calendar day. Even streamflow in tidal sections of the Nanticoke River (Sussex County) were at their lowest levels since the 1950s. For emergency use, the Hoopes Reservoir in New Castle County was at capacity. The continued dry conditions forced Sussex County officials to ban all outdoor burning on the 19th.

The unseasonably hot July combined with inadequate rainfall during the critical pollination phase devastated the state's corn crop. It was estimated that 75 percent of the corn crop has been hurt by the drought. Yields in Sussex County for unirrigated corn fields was expected to be 10 bushels per acre versus the normal yield of 120 bushels per acre. The National Agriculture Statistics Service report for Sussex County crops toward the end of the month indicated how much the drought has intensified. Forty-four percent of the county’s corn crop was rated as very poor and only 36 percent was either in fair or good condition. Forty percent of the county’s...
soybean crop was also in very poor condition with only 29 percent in fair or good condition. Eighty-two percent of all farmland was rated as being very short of moisture. Normal is only 9 percent. State officials were considering declaring the corn crop a disaster.

The Delaware River Basin Commission continued its drought emergency declaration for the entire Delaware River drainage basin. The New York City Reservoirs which feed the Delaware River fell from 89.0 percent of capacity on July 1st to 77.1 percent of capacity on July 31st.

DEZ001>004 New Castle - Kent - Inland Sussex - Delaware Beaches

01 0900EST
04 1800EST

Excessive Heat

July started with unseasonably hot and humid weather across Delaware. The hottest and most humid weather occurred on Independence Day before a cold front quietly moved through the region during the night of the 4th. Highest temperatures were near 100 degrees and heat indices reached around 105 degrees. Highest temperatures included 100 degrees in Greenwood (Sussex County) and Milford (Kent County), 99 degrees in Georgetown (Sussex County), 96 degrees at the Dover Air Force Base and the New Castle County Airport and 95 degrees in Wilmington (New Castle County Airport).

Sussex County
2 W Laurel to 3 E Delmar

03 1529EST
1605EST

Hail(1.75)

A severe thunderstorm dropped a swath of quarter to golf ball size hail across southwest Sussex County from Laurel south to Delmar. The same storm also knocked down a couple of trees in Little Creek Hundred. One downed tree blocked the intersection of County Roads 64 and 66 in the Ward section of the hundred.

DEZ001>004 New Castle - Kent - Inland Sussex - Delaware Beaches

06 1200EST
07 1800EST

Smoke

A northerly flow of air through the lower half of the atmosphere pushed smoke from forest fires in northern Quebec across Delaware. The smoke reduced visibilities and could be smelled from the afternoon of the 6th into the afternoon of the 7th. Winds started to shift from north on the 7th to the west on the 8th and pushed the smoke farther to the east. In all about 50 fires were burning near James Bay about 500 miles north of Montreal in Quebec Province. The fires consumed about 150,000 acres and caused the evacuation of the Native American village of Nemaska.

New Castle County
Newark

09 2030EST
0 0

Thunderstorm Wind (G50)

A severe thunderstorm knocked down a tree and several large limbs in Newark. About 250 Conectiv Power Delivery customers lost power in New Castle County.

Kent County
Hartly

09 2030EST
0 0

Thunderstorm Wind (G52)

A severe thunderstorm knocked down a few trees in Hartly.

DEZ001>004 New Castle - Kent - Inland Sussex - Delaware Beaches

15 0900EST
19 1800EST

Excessive Heat

Another work week of hot weather affected Delaware from the 15th through the 19th. High temperatures reached into the 90s in most areas each day. The highest temperatures mainly occurred on the 17th. Humidity levels were high for most of the week, except for the 16th when a weak back door cold front moved through the region. A second stronger front moved through the state during the first half of the 20th and ended the string of 90 degree high temperatures. Highest temperatures included 96 degrees in Salisbury (Wicomico County in Maryland), Georgetown (Sussex County) and Milford (Kent County), 95 degrees in Greenwood (Sussex County) and 92 degrees in Wilmington and at the New Castle County Airport.

Sussex County
Bethany Beach to Millville

19 1310EST
19 1330EST

250K 0

Lightning

Thunderstorms produced considerable cloud-to-ground lightning across southeastern Sussex County. The resulting strikes caused several fires from Bethany Beach to Millville. In Millville, six homes were struck by lightning. Two suffered significant damage. One home had its entire interior singed. In Ocean View, a garage was destroyed. In Bethany Beach, two units of the Sea Colony Townhouses suffered moderate to severe fire damage. Witnesses saw lightning strike the roof of one of the townhouses. In downtown Bethany Beach, lightning struck the transformer at the back of one store. It knocked out the power to the store and its phone service was out until the next day. The liquor store next door could not get its computer or register to work properly until the 22nd. No serious injuries were reported.

Sussex County
Bethany Beach

19 1322EST
0 0

Thunderstorm Wind (G75)
A severe thunderstorm produced a measured wind gust to 86 mph in Bethany Beach.

Very slow moving thunderstorms with very heavy rain inundated the Bethany Beach area of southeastern Sussex County with copious amounts of rain. Doppler Radar storm total estimates reached about 10 inches in Bethany Beach. Two ground truth rainfall reports from Bethany Beach recorded 7.41 inches and 6.00 inches. Most of the rain fell between 2 p.m. and 4 p.m. EDT. Every road east of Delaware State Route 1 was flooded. All side streets in Bethany Beach were flooded and closed. There was up to two feet of water in the downtown area. The Bethany Fire Department rescued occupants of two vehicles that were swept by the flood waters into ditches. They also rescued an elderly man and woman who drove their vehicle into a pond near the Sea Colony Resort. The intersection of Delaware State Route 1 and Jefferson Bridge Road became a pond. One driver floated into a ditch at this intersection. Residents were using rafts as a means of transportation along Pennsylvania Avenue. Emergency services responded to 13 weather related calls in the town. Even the fire department was not immune; the heavy rain flooded the first floor of the fire station, soaked the furniture and caused the carpeting to float. Thirty feet of an embankment along the Loop Canal was washed away. The flooding forced the cancellation of the evening town meeting. No serious injuries were reported.

A high pressure system building across New England produced a northeast flow along the Delaware Beaches and increased both the number and intensity of rip currents along the beach. Dozens of rescues were performed because of the currents, but there were no reported injuries. In Bethany Beach, there were 25 water rescues alone during the morning high tide on the 25th. Dewey Beach restricted bathers to waist deep waters. As the high pressure system moved farther offshore, winds slowly turned to the southeast and then south on the weekend (the 27th and 28th). This reduced the intensity and number of rip currents.

Slow moving thunderstorms with heavy rain produced poor drainage flooding and flooding of creeks in parts of the eastern two-thirds of Sussex County. Adjusted Doppler Radar Storm total estimates averaged between 1 to 3 inches across much of this area. But storm total estimates reached between 4 and 5 inches at the conjunction of Nanticoke, Cedar Creek and Georgetown. Storm total estimates averaged between 1 to 3 inches across much of this area. But storm total estimates reached between 4 and 5 inches at the conjunction of Nanticoke, Cedar Creek and Georgetown. Hundreds. Roadway flooding was reported near and along the coasts on Delaware State Routes 1, 26 and 54. Reports from Bethany Beach recorded 7.41 inches and 6.00 inches. Most of the rain fell between 2 p.m. and 4 p.m. EDT. Every road east of Delaware State Route 1 was flooded. All side streets in Bethany Beach were flooded and closed. There was up to two feet of water in the downtown area. The Bethany Fire Department rescued occupants of two vehicles that were swept by the flood waters into ditches. They also rescued an elderly man and woman who drove their vehicle into a pond near the Sea Colony Resort. The intersection of Delaware State Route 1 and Jefferson Bridge Road became a pond. One driver floated into a ditch at this intersection. Residents were using rafts as a means of transportation along Pennsylvania Avenue. Emergency services responded to 13 weather related calls in the town. Even the fire department was not immune; the heavy rain flooded the first floor of the fire station, soaked the furniture and caused the carpeting to float. Thirty feet of an embankment along the Loop Canal was washed away. The flooding forced the cancellation of the evening town meeting. No serious injuries were reported.

Storm Data and Unusual Weather Phenomena

July 2002

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<th>Location</th>
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For most places the highest temperature with the July part of this hot spell occurred on the 29th and included 97 degrees at the New Castle County Airport, Georgetown (Sussex County) and Salisbury, Maryland (Wicomico County), 96 degrees in Milford (Kent County), 95 degrees in Greenwood (Sussex County) and 94 degrees at the Dover Air Force Base (Kent County) and Wilmington (New Castle County). The hot spell at the end of July cemented the month as being above normal. Monthly mean temperatures averaged between 1 and 2 degrees warmer than normal. The July monthly mean temperature at the New Castle County Airport was 77.5 degrees, 0.9 degrees warmer than normal and in Georgetown was 78.4 degrees, 2.1 degrees warmer than normal. At Georgetown, 18 of the 31 days in July had high temperatures of 90 degrees or higher. At the New Castle County Airport, it was 13 days.

**District of Columbia**

**DCZ001**

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High pressure remained stationary off the Delmarva coastline during the 1st week of July. This resulted in a prolonged period of
hot and humid weather across the Mid Atlantic region. Between July 2nd and 4th, high temperatures rose into the lower to middle 90s and dew points reached into the lower 70s. This resulted in heat index values reaching 100 to 110 degrees during the afternoon. In addition, heat index value only dropped into the lower 80s overnight on the 4th and 5th, resulting in little relief for people without air conditioning. These conditions led to a number heat related illnesses, especially in people already suffering from pre-existing medical conditions. Thousands of people attended 4th of July activities on the Mall on July 4th. A handful of people on the grounds were overcome by heat during the day. On-site medical staff treated 150 people for heat exhaustion, including 83 people who were transported to area hospitals.

Another round of hot and humid weather occurred in the Washington D.C. metropolitan area on July 22nd and 23rd. Heat indexes rose to 103 degrees on the 22nd and 105 degrees on the 23rd.

A large area of high pressure sat off the Mid-Atlantic coast during the last week of July. This caused a warm and moist south wind to blow into the region for several days, resulting in another heat wave. The hottest days were the 28th and 29th of July when temperatures rose into the 90s and heat index values reached 100 to 110 degrees. Local power companies reported record electricity use on the 29th. City officials reported a number of heat-related medical emergency calls during the week.

### FLORIDA, East Central

- **Brevard County**
  - Scottsmoor: 04 1412EST, 0 0 0 0 Hail(0.75)
  - Volusia County:
    - Daytona Beach: 04 1500EST, 0 0 2K Lightning
    - Lightning started a fire that damaged an apartment building in Daytona Beach.
  - Volusia County
    - Daytona Beach: 04 1600EST, 0 8 0 0 Lightning
    - Eight spectators were struck and injured by lightning at Daytona Beach International Speedway. Two of the victims were hospitalized. Six were treated and released at the scene.

- **Lake County**
  - Groveland: 12 1135EST, 0 0 0 0 Funnel Cloud
  - Lake County sheriff's office reported a funnel cloud south of Groveland.

- **Brevard County**
  - Titusville: 20 1457EST, 0 0 0 0 Hail(1.00)

- **Orange County**
  - Apopka: 20 1708EST, 0 0 0 0 Thunderstorm Wind (G50)
  - Large trees were blown down at Wekiva Springs State Park.

- **Lake County**
  - Leesburg: 20 1750EST, 0 0 0 0 Funnel Cloud
  - A funnel cloud was reported by the Lake County Sheriff's Office in Leesburg.

- **Lake County**
  - Leesburg: 20 1806EST, 0 0 0 0 Hail(0.75)

- **Orange County**
  - Orlando: 21 1600EST, 0 0 0 0 Urban/Sml Stream Fld
  - Heavy thunderstorm rains produced flooding of roads in south Orlando.

- **Osceola County**
  - Kissimmee: 21 1630EST, 0 0 0 0 Urban/Sml Stream Fld
  - Heavy thunderstorm rains produced widespread street flooding in Kissimmee.
FLORIDA, East Central

Seminole County
Sanford Arpt  22  1710EST  0  0  0  0  Thunderstorm Wind (G52)\textsuperscript{M}
Thunderstorm winds of 60 MPH were recorded at Sanford Airport.

Lake County
Tavares  26  1700EST  0  1  0  0  Lightning
A 19 year old man was struck and seriously injured by lightning while riding on a personal water craft.

St. Lucie County
Ft Pierce  27  1105EST  0.1  30  0  0  100K  0  Tornado (F1)
An F1 tornado touched down in Ft. Pierce and remained nearly stationary for about one minute. It destroyed the service bay roof of a car dealership, and damaged 70 cars.

Orange County
Orlando Intl Arpt  30  2010EST  0  0  0  0  Thunderstorm Wind (G55)\textsuperscript{M}
A wind gust to 63 MPH was reported by sensors at Orlando International Airport.

FLORIDA, Extreme Southern

NONE REPORTED.

FLORIDA, Northeastern

Baker County
Olustee  03  1500EST  0  0  2K  Thunderstorm Wind
Large trees down near Interstate 10.

Baker County
Taylor  03  1500EST  0  0  2K  Thunderstorm Wind
Large trees down.

Alachua County
4 NW Gainesville  03  1515EST  0  0  Hail(0.75)
Also reported by spotter.

Columbia County
14 S Lake City  03  1700EST  0  0  2K  Thunderstorm Wind
Large trees down along County Road 18.

Suwannee County
Hildreth  03  1730EST  0  0  2K  Thunderstorm Wind
Large trees down.

Union County
Worthington Spgs  03  1730EST  0  0  Urban/Sml Stream Fld
Flooding on Highway 796.

Gilchrist County
Trenton  03  1837EST  0  0  2K  Thunderstorm Wind
Large trees down. SE 80th Ave.

St. Johns County
Fruit Cove  04  1155EST  0  0  3K  Thunderstorm Wind
3 Large oak trees down. Report by retired NWS Employee.

Suwannee County
3 S Live Oak  04  1545EST  0  0  2K  Thunderstorm Wind
Large trees on power lines.

St. Johns County
5 W Vermont Hgts  04  1630EST  0  0  2K  Thunderstorm Wind
Large trees down on power lines.
## FLORIDA, Northeastern

### St. Johns County
- **Bakersville**: 04/16/2002 1638EST
  - Large trees down. Unconfirmed reports of a tornado.
- **Marion County**: 05/09/2002 0948EST
  - Funnel Cloud

### Duval County
- **5 E Herlong Arpt**: 04/18/2002 1802EST
  - Hail (1.00)
- **Reddick**: 05/09/2002 0948EST
  - Tstm Wind/Hail
  - Three pine trees down, one on a house. Damage to tool shed behind house at 3330 NW 31st Street.
- **Orange Park**: 19/16/2002 1645EST
  - Urban/Sml Stream Fld

### Clay County
- **Middleburg**: 19/16/2002 1650EST
  - Hail (0.75)
- **Starke**: 20/16/2002 1522EST
  - Large trees down. Reports of trees down in Brooker.

### Alachua County
- **Gainesville**: 10/13/2002 1330EST
  - Tstm Wind/Hail
  - 5K
- **Favorita**: 19/15/2002 1545EST
  - Tstm Wind/Hail
  - 1 large tree down.

### Columbia County
- **Lake City**: 20/13/2002 1355EST
  - Tstm Wind/Hail
  - 2K
  - Large trees down across power lines.

### Baker County
- **7 N Sanderson**: 20/14/2002 1400EST
  - Tstm Wind/Hail
  - 2K
  - Large trees down between Sanderson and Taylor along highway 250.

### Duval County
- **Jacksonville**: 20/14/2002 1425EST
  - Tstm Wind/Hail
  - 20K
  - Numerous trees down. Scaffolding down at beaches construction site.
- **Jacksonville**: 20/14/2002 1430EST
  - Urban/Sml Stream Fld
  - 1630EST
  - Numerous streets flooded with road closures.

### Clay County
- **Orange Park**: 20/15/2002 1500EST
  - Tstm Wind/Hail
  - 2K
  - Large trees down on highway 17.
- **1 NE Keystone Hgts**: 20/15/2002 1500EST
  - Tstm Wind/Hail
  - 10K
  - Roof ripped off barn.
- **Starke**: 20/15/2002 1522EST
  - Tstm Wind/Hail
  - 2K
  - Large trees down. Reports of trees down in Brooker.
- **Alachua**: 20/16/2002 1600EST
  - Tstm Wind/Hail
  - 5K
  - Brief touchdown in traveler's camp.
FLORIDA, Northeastern

Putnam County

1 E Bostwick
20 1700EST 1 0 20K Tstm Wind/Hail
Bass boat would not start as thunderstorm approached and was taken under tow by a pontoon boat. Bass boat filled with water and sank. Victim could not be located due to low visibility, wind and waves. Victim was not wearing a life jacket.
M51BO

Duval County

Central Portion
22 1700EST 1 0 Lightning
Homeless man took shelter in a wooded lot during storm. tree behind him was struck first.
M51UT

Putnam County

Palatka
24 1415EST 0 0 Tstm Wind/Hail
Pea sized hail and one tree down across power lines.

Marion County

Ocala
24 1425EST 0 0 Tstm Wind/Hail
Marble sized hail reported by Deputy.

Marion County

Ocala
24 1540EST 0 0 Hail(1.00)

Marion County

Belleview
24 1600EST 0 0 Tstm Wind/Hail
One tree down.

Marion County

Ocala
24 1622EST 0 0 5K Thunderstorm Wind
Hickory trees down, one across fence. Tool shed overturned 10450 SE 32nd Ave.

Alachua County

(Gnv)Gainesville Arp
25 1507EST 0 0 Hail(0.75)
Reported by FAA observer.

Duval County

Arlington
25 1530EST 1545EST 0 0 Tstm Wind/Hail
Pine trees down on Girvin Rd.

Putnam County

Welaka
25 1600EST 0 0 10K Thunderstorm Wind
Boat shed on Crescent Lake destroyed.

Bradford County

1 W Starke
25 1614EST 0 0 10K Thunderstorm Wind
Large trees down on house and power lines down. Crosby Lake Subdivision. Trees down crossing 160th Street.

Clay County

Orange Park
25 1645EST 0 0 10K Thunderstorm Wind
Large trees down on house.

Clay County

Green Cove Spgs
25 1645EST 0 0 Lightning
911 center struck by lightning and down for an hour.

Putnam County

Crescent City
25 1655EST 0 0 Hail(0.75)

Putnam County

Crescent City
25 1655EST 0 0 2K Thunderstorm Wind
Large trees down.

Putnam County

Crescent City
25 1730EST 0 0 10K Thunderstorm Wind
Two sheds damaged.

Flagler County

Andalusia
25 1740EST 0 0 Tstm Wind/Hail
### FLORIDA, Northeastern

Large tree down, blocking highway 100.

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**FLORIDA, Northwest**

Large trees down on house.

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**FLORIDA, Northwest**

Large trees and power lines down.
FLORIDA, Northwest

A man drowned while attempting to escape a severe rip current. Reported by the Bay County EMA.

M50IW

Bay County
Panama City 02 1530EST 0 0 Hail(0.75)
Dime size hail reported by a SKYWARN spotter.

Walton County
3 NW Santa Rosa Beach 03 1415EST 0 0 Hail(0.75)
Dime size hail reported near the south side of Choctawhatchee Bay by the public.

Franklin County
Carrabelle 03 1540EST 0 0 3K Thunderstorm Wind
A few fences and a shed were blown over. A few trees were down. Reported by the Franklin County EMA.

Lafayette County
5 W Mayo 03 1700EST 0 0 10K Thunderstorm Wind
A few chicken houses were destroyed. A few large trees were down. Reported by the Lafayette County Sheriff.

Jackson County
Greenwood 04 1507EST 0 0 1K Thunderstorm Wind
Several downed trees reported by the Jackson County EMA.

Jackson County
Malone 07 1610EST 0 0 1K Thunderstorm Wind
Several downed trees on State Roads 2 and 135, and along Butler Road. Reported by the Jackson County Sheriff.

Leon County
Southeast Portion 08 1615EST 0 0 2K Thunderstorm Wind
A few downed trees and power lines at Natural Bridge off Highway 363. Reported by the public.

Madison County
8 SW Madison to 8 S Madison 18 2100EST 0 0 50K Thunderstorm Wind
A hog barn was destroyed, and the roof off a neighboring barn was ripped off. Several headstones and the graveyard were damaged by a downed tree at the Bethlehem Missionary Baptist Church. From County Road 158 to Highway 14, there were numerous downed trees. Reported by the Madison County EMA.

Taylor County
Salem 19 1530EST 0 0 10K Thunderstorm Wind
An awning was blown off a building on U.S. Highway 19 and a Wendy's restaurant sign was blown out. The tops of several trees were blown off. Reported by the Taylor County EMA.

Liberty County
Telogia 19 1650EST 0 0 15K Thunderstorm Wind
A 150 X 70-yard swath of large trees were uprooted along Telogia Creek just south of Highway 20. A mobile home sustained minor damage from a fallen tree. Reported by the Florida Emergency Operations Center.

Wakulla County
12 W Crawfordville 20 1330EST 0 0 2K Thunderstorm Wind
Downed trees on power lines along Smith Creek Highway. Reported by the Wakulla County EMA.

Wakulla County
3 E Crawfordville 20 1350EST 0 0 Hail(0.75)
Dime size hail reported by a SKYWARN spotter.

Wakulla County
3 E Crawfordville 20 1350EST 0 0 2K Thunderstorm Wind
Downed trees and power lines reported by a SKYWARN spotter.

Lafayette County
5 E Mayo 20 1445EST 0 0 5K Thunderstorm Wind
Numerous trees were blown over. One shed had its tin roof torn off and another shed was tossed. Reported by the Lafayette County Sheriff.
FLORIDA, Northwest

Taylor County

- Countywide 20 1500EST 1515EST 0 0 2K Thunderstorm Wind
  Numerous downed trees reported by the Taylor County Sheriff.

Jackson County

- 10 NE Marianna 20 1710EST 0 0 1K Thunderstorm Wind
  Several downed trees on Neals Landing Road. Reported by the Jackson County EMA.

Washington County

- Greenhead 20 1830EST 0 0 1K Thunderstorm Wind
  Numerous downed trees reported by the Washington County EMA.

- Vernon 20 1830EST 0 0 1K Thunderstorm Wind
  Numerous downed trees reported by the Washington County EMA.

Walton County

- Paxton 23 1702EST 1713EST 0 0 Hail(0.75)
  Dime size hail reported by a SKYWARN spotter.

- Paxton 23 1702EST 1713EST 0 0 50K Thunderstorm Wind (G63)M
  A weather spotter recorded 55-mph sustained winds for 5 minutes with a peak gust of 73 mph. A bleacher from a neighboring baseball field damaged the town hall. One of the concrete dugouts was blown apart. Several trees and power lines were blown down on U.S. Highway 331 in Paxton. Reported by a SKYWARN spotter.

Walton County

- 2 S Paxton 23 1713EST 0 0 10K Thunderstorm Wind
  Two 50-foot red oak trees fell, with one on the roof of a weather spotter’s home. Reported by a SKYWARN spotter.

FLORIDA, Southern

Broward County

- Lighthouse Pt 03 1400EST 0 0 10K Thunderstorm Wind (G70)
  A pool enclosure was damaged, tiles were taken off of a roof and large trees were uprooted. A SKYWARN spotter estimated winds above 60 mph.

Miami - Dade County

- Miami Shrs 03 1405EST 0 0 Hail(1.25)
  Dime to golf ball-size hail was reported in northeast Miami-Dade County.

- Miami 03 1500EST 1 0 Lightning
  A man holding an umbrella was struck and killed by lightning. It was raining heavily at the time as the man walked from a house to his car. M57OU

- Homestead 04 1400EST 1 1 Lightning
  Two men walking through a nursery in the Redlands were affected by lightning. One man was killed instantly and the other injured and treated at a local hospital. It had just started raining at the time the lightning struck. M37OU

Miami - Dade County

- Hialeah 05 1306EST 0 0 Hail(0.75)
  Dime-size hail was reported by a SKYWARN spotter.

- Hollywood 05 1335EST 0 0 Hail(0.75)
  A SKYWARN spotter reported dime-size hail near Sheridan Street and U.S. 441.

Glades County

- 5 S Moore Haven 07 1835EST 0 0 Funnel Cloud

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Storm Data and Unusual Weather Phenomena

<table>
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<th>Location</th>
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<td>Funnel Cloud</td>
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### FLORIDA, Southern

The Sheriff's Office reported a funnel cloud near the intersection of U.S. 80 and CR 833.

**Broward County**
- **(Fxe) Ft Laudrdl Exec**
  - **Date:** 10
  - **Time:** 0842 EST
  - **Character:** Funnel Cloud
  - Personnel of Fort Lauderdale Executive Airport evacuated the control tower when a funnel cloud approached.
- **FLZ074 Coastal Dade**
  - **Date:** 16
  - **Time:** 1500 EST
  - **Character:** Excessive Heat
  - Sixteen children at a day camp at Tropical Park were treated on the scene by paramedics after suffering heat exhaustion.

**Collier County**
- **15 E Naples**
  - **Date:** 17
  - **Time:** 1455 EST
  - **Character:** Thunderstorm Wind (G50)
  - The public estimated wind gusts of 60 mph or higher on Alligator Alley.
- **Miami - Dade County**
  - **Miami**
    - **Date:** 17
    - **Time:** 1900 EST
    - **Character:** Lightning
    - A 14-year old girl was injured when lightning struck a palm tree as she walked nearby. She stopped breathing but was resuscitated and transported to the hospital. Frequent lightning was being observed.

**Broward County**
- **3 W Cooper**
  - **Date:** 18
  - **Time:** 1200 EST
  - **Character:** Lightning
  - A 41-year old man standing in his nursery in Southwest Ranches was injured when lightning struck a timing clock about 30 feet away.

**Glades County**
- **2 W Palmdale**
  - **Date:** 20
  - **Time:** 1650 EST
  - **Character:** Funnel Cloud
  - The Sheriff's Office reported a funnel cloud.

**Miami - Dade County**
- **Sunny Is**
  - **Date:** 23
  - **Time:** 1230 EST
  - **Character:** Rip Currents
  - A man and woman visiting from New York were caught in a rip current near 172nd Street. The man drowned and the woman was hospitalized.

**Glades County**
- **Ortona**
  - **Date:** 25
  - **Time:** 1400 EST
  - **Character:** Lightning
  - A lightning-initiated fire destroyed a mobile home.

**Collier County**
- **2 W Immokalee**
  - **Date:** 25
  - **Time:** 1602 EST
  - **Character:** Funnel Cloud
  - The Florida Highway Patrol reported a funnel cloud.

**Glades County**
- **1 E Moore Haven to Moore Haven**
  - **Date:** 29
  - **Time:** 1435 EST
  - **Character:** Tornado (F1)
  - A tornado formed along the southeast shore of Lake Okeechobee and moved west northwest. Sporadic damage along the track consisted of a pool enclosure blown into a canal and the roof of a Catholic Church being partially blown off.

### FLORIDA, West Central

**Hillsborough County**
- **Tampa**
  - **Date:** 01
  - **Time:** 1645 EST
  - **Character:** Lightning
  - Lightning caused a fire to a home on Lambright Street.

**Pasco County**
- **Land O Lakes**
  - **Date:** 04
  - **Time:** 1230 EST
  - **Character:** Thunderstorm Wind
  - Emergency Management reported roof damage to three units and numerous tree limbs down.

**Citrus County**
- **5 W Crystal River**
  - **Date:** 05
  - **Time:** 0900 EST
  - **Character:** Lightning
  - Lightning knocked victim out of the boat. A second man in the boat jumped into the water and pulled his friend back in but could not revive the victim.

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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>Estimated Damage Property</th>
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</table>
**FLORIDA, West Central**

**Hardee County**
- **Wauchula**
  - Time: 1600EST
  - Path Length: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: 10K
  - Character of Storm: Thunderstorm Wind
  - Roof damage to three homes with tin roofs and several trees down.

**Levy County**
- **2 SW Otter Creek**
  - Time: 1330EST
  - Path Length: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: 10K
  - Character of Storm: Thunderstorm Wind (G60)
  - Emergency Management reported several large pine trees uprooted.

**Pinellas County**
- **Treasure Is**
  - Time: 1330EST
  - Path Length: 0.5
  - Path Width: 40
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: 20K
  - Character of Storm: Tornado (F0)
  - Brief tornado caused roof to be blown off of the Florida Room and additional minor roof damage to nearby structures.

**Polk County**
- **5 E Winter Haven**
  - Time: 1414EST
  - Path Length: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Funnel Cloud

**Polk County**
- **Largo**
  - Time: 0730EST
  - Path Length: 0.5
  - Path Width: 40
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: 1K
  - Character of Storm: Tornado (F0)
  - SKYWARN spotter reported a weak tornado with winds estimated at 50 mph. The tornado blew debris around in parking lot and damaged a skylight at drug store.

**Polk County**
- **Lake Wales**
  - Time: 0933EST
  - Path Length: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Thunderstorm Wind (G60)

**Charlotte County**
- **.5 E Charlotte Harbor**
  - Time: 1030EST
  - Path Length: 0.5
  - Path Width: 40
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: 20K
  - Character of Storm: Tornado (F0)
  - Tornado began as a waterspout over the Peace River and moved onshore near the Fisherman's Village.

**Levy County**
- **5 SW Bronson**
  - Time: 0830EST
  - Path Length: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Tstm Wind/Hail
  - Tree limbs downed several power lines.

**Lee County**
- **Lehigh Acres**
  - Time: 1545EST
  - Path Length: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: 90K
  - Character of Storm: Lightning
  - Lightning induced fire destroyed a stilt wood frame house.

**Levy County**
- **Williston**
  - Time: 1840EST
  - Path Length: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: 10K
  - Character of Storm: Tstm Wind/Hail
  - Two large trees and limbs down knocked out power to some residents on the east side of the city.

**Hernando County**
- **Brooksville**
  - Time: 1300EST
  - Path Length: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: 20K
  - Character of Storm: Lightning
  - Lightning started a business on fire.

**Pinellas County**
- **Palm Harbor**
  - Time: 1228EST
  - Path Length: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Lightning
  - A home was struck but little damage was reported.

**Pinellas County**
- **Clearwater**
  - Time: 1700EST
  - Path Length: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Lightning
  - Struck a business and destroyed the phone system.

**Lee County**
- **Bonita Spgs**
  - Time: 1329EST
  - Path Length: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: 10K
  - Character of Storm: Thunderstorm Wind
  - Gusty winds downed tree limbs that brought power lines down near Arroyo Road. Dime size hail was also reported.

**Citrus County**
- **Beverly Hills**
  - Time: 1337EST
  - Path Length: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Hail(1.75)
  - Reported by emergency management.

**Hillsborough County**
- **10 NNW Tampa**
  - Time: 1517EST
  - Path Length: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Hail(0.75)

**Hillsborough County**
- **3 W Tampa**
  - Time: 1536EST
  - Path Length: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Hail(1.00)
  - Broadcast media reported hail on the Courtney Campbell Causeway.
**FLORIDA, West Central**

**Manatee County**
- 5 W Bradenton to Ellenton
  - 25 1538EST 1557EST 0 0 Hail(0.75)
- 2 N Citrus Park
  - 25 1550EST 0 0 Hail(1.75) Sheriff report of golf ball size hail with power and traffic lights out.

**Lee County**
- Lehigh Acres
  - 25 1606EST 1616EST 0 0 Funnel Cloud
- 2 N Citrus Park
  - 25 1630EST 0 0 Thunderstorm Wind (G50) TECO reported downed power lines due to wind damage to numerous trees.

**Hillsborough County**
- Plant City
  - 25 1645EST 1 40 0 0 20K Tornado (F0) Tornado damaged roof of a former fire station and downed or damaged nearby trees.

**Polk County**
- Highland City
  - 25 1747EST 0 0 Hail(0.75)
- Port Charlotte
  - 26 1400EST 0 0 Lightning Lightning caused at least four brush fires in the Englewood area.

**Manatee County**
- Bradenton
  - 27 1423EST 0 0 5K Lightning Lightning caused a hole in a house and started a fire.

**Polk County**
- Mulberry
  - 27 1815EST 0 0 Hail(0.75)

**Manatee County**
- 4 NNE Ellenton
  - 28 2025EST 0 0 Lightning Lightning struck and disabled a vehicle on I75 near the I275 interchange.

**Sarasota County**
- North Port
  - 29 1433EST 0 0 Thunderstorm Wind (G50) Multiple trees down and several businesses signs down.

**Manatee County**
- 8 SE Bradenton to 10 E Bradenton
  - 29 1537EST 1542EST 2 60 0 0 5K Tornado (F0) Fire and rescue reported that many trees were down due to the tornado in the Lakewood Ranch and Gray Hawk subdivisions.

**Manatee County**
- Parrish
  - 29 1545EST 0 0 Thunderstorm Wind (G50) Strong winds dropped trees and power lines.

**Hillsborough County**
- Sun City
  - 29 1555EST 0 0 Thunderstorm Wind (G50) Several trees and numerous limbs down.

**Polk County**
- Ft Meade
  - 29 1625EST 0 0 Thunderstorm Wind (G50) Numerous oak and orange trees uprooted, widespread limbs down, and power lines down.

**Lee County**
- Lehigh Acres
  - 29 1638EST 0.5 40 0 0 Tornado (F0) Fire department reported tornado damage to huge trees and picnic tables in park.

**Hillsborough County**
- Seffner
  - 29 1641EST 0 0 Hail(0.75)

**Pasco County**
- 4 SE New Port Richey to Port Richey
  - 29 1735EST 1745EST 0 0 Hail(1.00)
FLORIDA, West Central

Pasco County
New Port Richey
29 1740EST 0 0 Thunderstorm Wind (G60)
Many trees and power lines down near the corner of Cecilia Drive and Madison.

Pasco County
Hudson
29 1745EST 0 0 Hail(0.88)

Pasco County
Port Richey
29 1745EST 0 0 20K Thunderstorm Wind
Strong winds downed trees and billboards, tore the roof off a mobile home, and part of a roof of a permanent home.

Pasco County
5 N Port Richey
29 1800EST 0 0 5K Thunderstorm Wind
Strong winds downed trees which damaged a duplex in the Jasmine Estates area.

Hernando County
10 W Brooksville
29 1810EST 0 0 Hail(0.75)

Hernando County
8 W Brooksville to Brooksville
29 1810EST 1820EST 0 0 Thunderstorm Wind (G60)
Numerous trees and power lines down, especially near Highway 50 and Fort Dade Avenue.

Citrus County
1 W Homosassa
29 1836EST 1845EST 0 0 Thunderstorm Wind (G71)M
Greater than 50 knot wind occurred for nine minutes and was measured by coastal marine station at the mouth of the Homosassa river. Peak wind was at 6:42 PM EST.

FLORIDA, West Panhandle

Santa Rosa County
Berrydale
01 1455CST 1500CST 0 0 5K Thunderstorm Wind (G55)
Strong thunderstorm winds blew down several trees near Berrydale.

Okaloosa County
Ft Walton Beach
02 2215CST 0 0 1K Lightning
Lightning struck the roof of a home and started a fire near Cinco Bayou. The fire was quickly put out with only minimal damage to the home.

Okaloosa County
Ft Walton Beach
02 2230CST 0 0 10K Lightning
Lightning struck a home and started a fire. The fire was extinguished but the home suffered damage.

Okaloosa County
Destin
03 1230CST 1235CST 0 0 Hail(1.00)

Santa Rosa County
Milton
03 1400CST 1401CST 0 0 Hail(0.75)

Santa Rosa County
Munson
04 1445CST 0 0 10K Lightning
Two people were outside barbequing at a local campground when they were struck by lightning. They were both taken to a local hospital, examined and later released.

Escambia County
Pensacola
04 1830CST 0 0 50K Lightning
Lightning struck the roof of a church and started a fire. The fire burned for six hours before being put out. There was considerable damage to a roof over a sanctuary and smoke damaged most of the church. No one was in the building near where the strike occurred.

Escambia County
Pensacola Beach
07 1715CST 0 0 40K Lightning
FLORIDA, West Panhandle

Lightning struck an apartment complex on Pensacola Beach and started a fire. Significant damage was done to the apartment before the fire was put out. No one was injured in the blaze.

Santa Rosa County
Allentown  08  1340CST  0  1  Lightning  
A male was outside when he was hit by lightning. No information about how or exactly where he was at when the strike occurred was known. He was taken to a local hospital, examined and later released.

Santa Rosa County
Berrydale  19  1355CST  0  0  8K  Thunderstorm Wind (G50)
Trees were blown down near Berrydale by high winds from a thunderstorm.

Santa Rosa County
Bagdad  19  1420CST  0  1  Lightning
A female went outside to roll up her automobile windows as a thunderstorm was approaching. She was hit by lightning when a strike hit a nearby tree, went through the root system of the tree and hit her. She was taken to a local hospital, examined and released.

Okaloosa County
Crestview  20  1620CST  0  0  Hail(0.75)

Santa Rosa County
Gulf Breeze  21  1645CST  0  0  8K  Thunderstorm Wind (G50)
Several trees were blown down near Gulf Breeze by high winds from a thunderstorm.

Okaloosa County
10 SE Crestview  22  1300CST  0  0  8K  Thunderstorm Wind (G50)
Trees were blown down along State Highway 285 east of Duke Field by high winds from a thunderstorm.

Santa Rosa County
Pace  26  0754CST  0  1  Lightning
A male was working on a bridge in a high rise crane, when lightning hit the crane and injured him. He was life lighted to a local hospital. He was kept for a few days for observation and was later released.

Escambia County
Pensacola  27  1400CST  0  1  Lightning
A male was indirectly struck by lightning near Pensacola. Little information was available about how he was struck. He was taken to a local hospital and was kept for a few days before being released.

GEORGIA, East Central

Richmond County
Augusta  30  1740EST  0  0  0  Thunderstorm Wind (G55)
Sheriff reported trees down on Glen Mills Drive, Toms Drive, and the 3300 block of Milledgeville Road.

Columbia County
4 W Appling  31  1640EST  0  0  0  Thunderstorm Wind (G55)
Sheriff reported trees down on several roads in the Appling area.

GEORGIA, Lower

Wayne County
Odum  01  1740EST  0  0  Hail(0.75)

Coffee County
Douglas  01  1900EST  0  0  Tstm Wind/Hail
Tree down.

Camden County
5 NW Silco  03  1600EST  0  0  2K  Thunderstorm Wind
Large trees down on County Road 40.
GEORGIA, Lower

Clinch County
Homerville 03 1930EST 0 0 Urban/Sml Stream Fld
Extensive street flooding.

Atkinson County
Willacoochee 04 1930EST 0 0 2K Thunderstorm Wind
Large trees down on power lines.

Jeff Davis County
Hazelhurst 06 1845EST 0 0 80K Thunderstorm Wind
Numerous large trees down. Power lines down. Large truck trailer overturned. Concrete block structure destroyed.

Appling County
Baxley 06 1900EST 0 0 5K Thunderstorm Wind
Large trees and power lines down across city.

Coffee County
Chatterson 06 2000EST 0 0 Hail(0.75)

Coffee County
Nicholls 06 2000EST 0 0 Hail(0.75)

Charlton County
St George 20 1420EST 0 0 2K Thunderstorm Wind
Large trees snapped and down across power lines.

Brantley County
2 S Nahunta 20 1630EST 0 0 Hail(0.88)

 Glynn County
St Simons Is 20 1700EST 0 0 2K Thunderstorm Wind
Several large trees down across power lines.

Camden County
St Marys 20 1720EST 0 0 Hail(0.75)

Camden County
St Marys 20 1720EST 0 0 10K Thunderstorm Wind
Large oak trees down on houses.

Camden County
St Marys 20 1800EST 0 0 10K Thunderstorm Wind
Oak trees down. Hickory trees snapped and uprooted. Tree down on a house at 802 Bay Tree Circle.

Clinch County
Dupont 21 1530EST 0 0 Tstm Wind/Hail
Large pine tree down across highway 84.

Camden County
Kingsland 23 1645EST 0 0 2K Thunderstorm Wind
Large trees and power lines down on Springhill Road.

Camden County
5 E Woodbine 26 1635EST 0 0 2K Thunderstorm Wind
Large trees down across power lines.

Ware County
10 SE (Ays)Ware Co Arp 28 1710EST 0 0 Tstm Wind/Hail
Two pine trees down. Reports of a possible tornado. Radar indicated two intersecting outflow boundaries, possible gustnado.

GEORGIA, North and Central

Cobb County
1 SE Kennesaw 01 1530EST 0 0 175K Thunderstorm Wind
The Cobb county Emergency Management Director reported that a thunderstorm microburst caused extensive damage to two Preferred Jet Center Hangers at McCollum field, just southeast of Kennesaw. The walls were moved in. However, no aircraft were damaged. While the tower at the field only reported 45 mph winds, a localized microburst was suspected with winds up to 100 mph.

**Hall County**

- **Clermont to Lula**
  - Time: 01 1600EST - 1605EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage: 3K
  - Character of Storm: Thunderstorm Wind

  The Times Newspaper of Gainesville and the Hall county 911 center reported that trees were blown down in Clermont and Lula. The trees also knocked down some power lines, leaving up to 1200 residents without power through the evening. Power lines were down near the Lee-Gilmer Memorial Airport, where a downed tree also blocked the entrance to a resident's home, and a large tree was down near the intersection of Old Cornelia Highway and Georgia Highway 52 in Lula.

- **Clermont**
  - Time: 01 1605EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Hail(0.88)

  The Hall county 911 center reported nickel size hail.

- **Dallas**
  - Time: 01 1615EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Hail(1.00)

  Several reports were received from the public of dime to quarter size hail.

- **Lula**
  - Time: 01 1626EST - 1632EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Hail(1.00)

  An amateur radio operator reported nickel to quarter size hail and the public reported nickel size hail.

- **Cumming to 5 N Cumming**
  - Time: 01 1640EST - 1700EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Hail(1.00)

  Amateur radio operators, a storm spotter, Fox 5 News of Atlanta, and the public all reported dime to quarter size hail in the Cumming area.

- **Dalton**
  - Time: 01 1650EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Hail(0.75)

  A volunteer fireman reported dime size hail.

- **Countywide**
  - Time: 01 1700EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Lightning

  The Times Georgian newspaper of Carrollton reported that three separate homes across the county were struck by lightning, with damage ranging from minor to moderate. No injuries or deaths were reported.

- **Dahlonega**
  - Time: 01 1730EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Lightning

  The Dahlonega Nugget newspaper reported that lightning struck a 66-year old home in town starting a fire which destroyed the house and all possessions. No injuries were reported as the lone 88-year old resident was able to escape from the house before it was destroyed by the fire.

- **Suwanee to Buford**
  - Time: 01 1740EST - 1750EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Hail(1.00)

  Numerous reports of hail, ranging in size from dimes to quarters, were received from the public and several amateur radio operators.

- **Suwanee**
  - Time: 01 1740EST - 1750EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Thunderstorm Wind

  The public and several amateur radio operators reported that several trees were blown down in at least two different locations in Suwanee.

- **Dalton**
  - Time: 01 1740EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Hail(0.75)

  The Whitfield county 911 center reported dime size hail.

- **Dawsonville**
  - Time: 01 1750EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Tstm Wind/Hail

  The public reported pea size hail.
**Storm Data and Unusual Weather Phenomena**

July 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</th>
<th>Estimated Damage</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rockdale County</strong></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Conyers</td>
<td>01</td>
<td>1805EST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Hail(0.75)</td>
<td>The public reported dime size hail.</td>
</tr>
<tr>
<td><strong>Dawson County</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dawsonville</td>
<td>01</td>
<td>1812EST</td>
<td>0</td>
<td>0</td>
<td>1K</td>
<td>Lightning</td>
<td>The Dawson county 911 center reported that lightning struck a tree, causing the tree to split and fall, as well as simultaneously knocking out an electrical transformer.</td>
</tr>
<tr>
<td><strong>Murray County</strong></td>
<td></td>
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<td>Chatsworth</td>
<td>01</td>
<td>1812EST</td>
<td>0</td>
<td>0</td>
<td></td>
<td>Hail(0.75)</td>
<td>The Murray county 911 center reported dime size hail.</td>
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<tr>
<td><strong>Gwinnett County</strong></td>
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<tr>
<td>5 NE Suwanee</td>
<td>01</td>
<td>1815EST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind</td>
<td>A National Weather Service storm spotter reported that several large tree limbs were blown down.</td>
</tr>
<tr>
<td><strong>Floyd County</strong></td>
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<td></td>
<td></td>
<td></td>
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<td>Armuchee</td>
<td>01</td>
<td>1910EST</td>
<td>0</td>
<td>0</td>
<td></td>
<td>Hail(0.75)</td>
<td>A storm spotter reported dime size hail.</td>
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<tr>
<td><strong>Houston County</strong></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Perry</td>
<td>02</td>
<td>1350EST</td>
<td>0</td>
<td>0</td>
<td>0.50K</td>
<td>Thunderstorm Wind</td>
<td>The Houston county 911 center reported that two trees were blown down.</td>
</tr>
<tr>
<td><strong>Dawson County</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Dawsonville</td>
<td>02</td>
<td>1405EST 1410EST</td>
<td>0</td>
<td>0</td>
<td></td>
<td>Hail(1.00)</td>
<td>The Dawson county Emergency Management Director and the public reported dime to quarter size hail.</td>
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<tr>
<td><strong>Union County</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blairsville</td>
<td>02</td>
<td>1415EST</td>
<td>0</td>
<td>0</td>
<td></td>
<td>Hail(1.75)</td>
<td>The Union county 911 center reported golf ball size hail and the public reported nickel size hail.</td>
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<td><strong>Union County</strong></td>
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<tr>
<td>Blairsville</td>
<td>02</td>
<td>1415EST</td>
<td>0</td>
<td>0</td>
<td>5K</td>
<td>Lightning</td>
<td>The public reported that lightning set a house on fire. No injuries were reported and damage estimates were not provided.</td>
</tr>
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<tr>
<td>Blairsville</td>
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<td>1415EST</td>
<td>0</td>
<td>0</td>
<td>1K</td>
<td>Thunderstorm Wind</td>
<td>The Union county 911 center and the public reported that at least four trees were blown down by thunderstorm winds.</td>
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<td><strong>Hall County</strong></td>
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<td>Clermont</td>
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<td>1420EST</td>
<td>0</td>
<td>0</td>
<td></td>
<td>Hail(0.88)</td>
<td>Three reports of nickel size hail were received from the public.</td>
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<td><strong>Forsyth County</strong></td>
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<td>Coal Mtn</td>
<td>02</td>
<td>1440EST</td>
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<td>0</td>
<td></td>
<td>Hail(0.88)</td>
<td>The Forsyth county 911 center reported nickel size hail.</td>
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<tr>
<td><strong>Hall County</strong></td>
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<td></td>
<td>Urban/Sml Stream Fld</td>
<td>The Clermont Fire Department reported that low lying areas were flooded because of heavy rain.</td>
</tr>
<tr>
<td>Clermont</td>
<td>02</td>
<td>1530EST</td>
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<td><strong>Heard County</strong></td>
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<td>Franklin</td>
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<td>1530EST</td>
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<td>0</td>
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<td>Hail(0.75)</td>
<td>The Heard county 911 center reported dime size hail.</td>
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<tr>
<td><strong>Fulton County</strong></td>
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<td></td>
</tr>
<tr>
<td>Crabapple to Roswell</td>
<td>02</td>
<td>1542EST 1545EST</td>
<td>0</td>
<td>0</td>
<td></td>
<td>Hail(0.88)</td>
<td>The Chief Meteorologist from FOX 5 News in Atlanta and the public reported dime to nickel size hail from Crabapple to Alpharetta, and the public reported dime size hail in Roswell.</td>
</tr>
<tr>
<td><strong>Baldwin County</strong></td>
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</tr>
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<td>Countywide</td>
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<td>1600EST</td>
<td>0</td>
<td>0</td>
<td>3K</td>
<td>Thunderstorm Wind</td>
<td></td>
</tr>
</tbody>
</table>

58
GEORGIA, North and Central

The Union Recorder of Milledgeville and the county 911 center reported that trees were blown down across the county. Much of the damage was focused in the Airport Road area. In this area, in addition to a downed power pole and trees, a home's deck and its steps were crushed when a large oak tree was blown down on the structure.

A variety of news media, including WXIA TV and FOX 5 TV of Atlanta, the Marietta Daily Journal newspaper, and the Cobb county Emergency Management Director reported extensive damage at McCollum field, just southeast of Kennesaw, apparently caused by a microburst. At least four aircraft were damaged. An old Cessna-172 was totaled, two single-engine aircraft were pushed into each other, and one aircraft broke free from its tiedowns and was moved, but stayed upright. Damage to the aircraft alone was estimated at $100,000. Additional damage to homes and businesses occurred further southeast near Marietta. Amateur radio operators reported that the roof was blown off the antebellum 154-year old Marietta Lighting Company near the Marietta Square Shopping Center. The roof and chimney from the building damaged employee cars in the lot below. The chief meteorologist from FOX 5 TV in Atlanta reported that a roof was blown off a house, information which was further confirmed by the Marietta Daily Journal. Amateur radio operators, the Marietta Daily Journal and the Cobb county 911 center also reported that large tree limbs and some trees were blown down in Marietta. Tree debris littered much of the Marietta Downtown Market Square. A 25-foot limb from a 100-year old oak tree crashed onto South Park Square, blocking traffic and damaging parked vehicles. Another large tree branch crushed a Volvo near the Square. Much of the Marietta area, 6000 or more residents, was without power throughout the evening, and another 600 residents were without power in the Kennesaw area.

Amateur radio operators reported quarter size hail. The public and a CNN meteorologist reported nickel size hail.

Amateur radio operators reported dime size hail at two separate locations in Lilburn, while quarter size hail was reported on Interstate 85 just south of Mechanicsville near the Gwinnett-Dekalb county line.

An amateur radio operator reported that a tree was blown down on Georgia Highway 22 near at Haddock.

The public reported that some trees were blown down.

The public reported nickel size hail.

The public reported nickel size hail.
Wilkinson County

Gordon

02 1640EST

The Wilkinson county 911 center reported that two trees were blown down.

De Kalb County

Countywide

02 1643EST

The public reported dime size hail at several locations across the county.

Fulton County

2.5 E Atlanta to Hapeville

02 1645EST

Numerous reports were received from amateur radio operators and the public of hail ranging in size from dimes to nickels from the Inman Park, Grant Park, Midtown, and the Little Five Points areas of Atlanta in the extreme eastern portion of Fulton county near the DeKalb county line. The public reported dime to quarter size hail in the Hapeville area.

Fulton County

2.5 E Atlanta

02 1650EST

The public reported that trees were blown down at Turner Field, just south of downtown Atlanta, and the Georgia Emergency Management Agency reported that large tree branches were blown down.

Clayton County

Jonesboro

02 1653EST

The public reported half-dollar size hail.

Clayton County

Forest Park to Riverdale

02 1700EST

Two reports of quarter size hail in Forest Park were received from FOX 5 TV of Atlanta, while numerous reports of hail, ranging in size from dimes to golf balls, were received from the public in Forest Park. FOX 5 TV also relayed a report of quarter size hail on Aviation Parkway on the south side of the Atlanta Hartsfield International Airport near the intersection of Georgia Highway 139 and Georgia Highway 314. In addition, nickel size hail was reported by the public at Riverdale.

Paulding County

Hiram

02 1700EST

Three reports of hail were received from the public. One report was of dime size hail, another nickel size hail, and a third was golf ball size.

Polk County

Cedartown

02 1710EST

The Polk county 911 center reported nickel size hail.

Fayette County

Fayetteville to 5 S Fayetteville

02 1721EST

Several reports of hail, ranging in size from dimes to quarters, were received from the public and amateur radio operators. Hail was reported at the intersection of Georgia Highways 85 and 92, four miles south of town on Georgia Highway 92, and five miles south of Fayetteville at the White Water Middle School complex.

Monroe County

Bolingbrooke to Forsyth

02 1722EST

The public and an amateur radio operator reported dime to quarter size hail.

Bibb County

Skipperton

02 1730EST

An amateur radio operator reported that a person was struck and injured by lightning.

Douglas County

5 W Winston to Douglasville

02 1730EST

Several reports of hail, ranging in size from dimes to ping-pong balls, were received from the public and amateur radio operators. In one instance in Douglasville, the larger hail was interspersed within a ten minute period of dime-size hail, which covered the ground.
## Storm Data and Unusual Weather Phenomena

### GEORGIA, North and Central

**Monroe County**

**Forsyth**

<table>
<thead>
<tr>
<th>Time</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 1738EST</td>
<td>Thunderstorm Wind</td>
</tr>
</tbody>
</table>

The public reported that some limbs were blown down and shingles were blown off the roof of a house.

**Douglas County**

**1 SW Winston**

<table>
<thead>
<tr>
<th>Time</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 1739EST</td>
<td>Thunderstorm Wind</td>
</tr>
</tbody>
</table>

An amateur radio operator reported that some trees were down near Interstate 20 and Post Road.

**Clayton County**

**Riverdale**

<table>
<thead>
<tr>
<th>Time</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 1745EST</td>
<td>Lightning</td>
</tr>
</tbody>
</table>

The News Daily of Jonesboro reported that lightning struck a home setting fire to the structure. Quick action of the homeowner limited the amount of damage. Nonetheless, damage was extensive enough that repairs were expected to take two to three months. Nearly 7000 residents of the county were without power much of the evening either because of cloud-to-ground lightning strikes or wind damage.

**Carroll County**

**Villa Rica**

<table>
<thead>
<tr>
<th>Time</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 1749EST</td>
<td>Thunderstorm Wind</td>
</tr>
</tbody>
</table>

The Carroll county 911 center reported that trees and power lines were down.

**Bibb County**

**Macon**

<table>
<thead>
<tr>
<th>Time</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 1750EST</td>
<td>Lightning</td>
</tr>
</tbody>
</table>

An amateur radio operator reported that a house was struck and set on fire by lightning.

**Henry County**

**Stockbridge**

<table>
<thead>
<tr>
<th>Time</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 1815EST</td>
<td>Thunderstorm Wind</td>
</tr>
</tbody>
</table>

The Henry county 911 center reported that two trees were blown down.

**Upson County**

**Thomaston**

<table>
<thead>
<tr>
<th>Time</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 1820EST</td>
<td>Hail(0.75)</td>
</tr>
</tbody>
</table>

The Upson county 911 center reported dime size hail.

**Wilkes County**

**Washington**

<table>
<thead>
<tr>
<th>Time</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 1830EST</td>
<td>Thunderstorm Wind</td>
</tr>
</tbody>
</table>

The Wilkes county 911 center reported that three trees were blown down.

**Upson County**

**Thomaston**

<table>
<thead>
<tr>
<th>Time</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 1838EST</td>
<td>Hail(1.00)</td>
</tr>
</tbody>
</table>

An amateur radio operator reported quarter size hail.

**Carroll County**

**Villa Rica**

<table>
<thead>
<tr>
<th>Time</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 1840EST</td>
<td>Hail(0.75)</td>
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</tbody>
</table>

The Carroll county 911 center reported dime size hail.

**Meriwether County**

**2 E Warm Spgs**

<table>
<thead>
<tr>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>02 1850EST</td>
<td>Thunderstorm Wind</td>
</tr>
</tbody>
</table>

An amateur radio operator reported that two trees were blown down.

**Upson County**

**5 N Thomaston**

<table>
<thead>
<tr>
<th>Time</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 1850EST</td>
<td>Thunderstorm Wind (G52)</td>
</tr>
</tbody>
</table>

An amateur radio operator estimated winds of 60 to 65 mph.

**Polk County**

**Rockmart**

<table>
<thead>
<tr>
<th>Time</th>
<th>Character of Storm</th>
</tr>
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<tbody>
<tr>
<td>02 1901EST</td>
<td>Hail(0.75)</td>
</tr>
</tbody>
</table>

An amateur radio operator reported dime size hail.

**Upson County**

**Atwater**

<table>
<thead>
<tr>
<th>Time</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 1905EST</td>
<td>Lightning</td>
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</tbody>
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### Storm Data and Unusual Weather Phenomena

<table>
<thead>
<tr>
<th>Location</th>
<th>Date Time</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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<tr>
<td>Georgia</td>
<td>North and Central</td>
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<td>0.50K</td>
<td>Thunderstorm Wind</td>
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</tr>
<tr>
<td>Douglas County</td>
<td>1 SW Winston</td>
<td>02 1739EST</td>
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<td>Thomaston</td>
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<td>Thunderstorm Wind (G52)</td>
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<td>Atwater</td>
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<td>25K</td>
<td>Lightning</td>
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</table>
GEORGIA, North and Central

The Upson county 911 Emergency Management Director and the Thomaston Times Newspaper reported that two homes were struck by lightning and set on fire. At one home the lightning traveled on the electrical system causing a short and resultant fire in a lamp. Damage to the room with the lamp was extensive, but the fire was quickly put out before further damage to the house occurred. At the other home, the lightning once again traveled on the electrical line, but damage to the house was very minor. At the 911 center in Thomaston, a power surge, caused by a nearby lightning strike, disabled the communications equipment. Lightning was also believed to have caused a gas surge at a gas pumping station in Thomaston. Numerous reports of lightning related damage were received from all over the county, such as electrical sockets being blown out of walls, electrical panels and meters blown out, and many computer and modem related damage calls.

Upson County
2 N Thomaston 02 1905EST 0 0 Hail(0.75)
An amateur radio operator reported dime size hail.

Whitfield County
Dalton 02 1910EST 0 0 Tstm Wind/Hail
An amateur radio operator reported pea size hail.

Bartow County
Cartersville 02 1915EST 0 0 Hail(0.75)
An amateur radio operator reported dime size hail.

Meriwether County
Warm Spgs 02 1920EST 0 0 5K Thunderstorm Wind
The Meriwether county 911 center reported that twelve trees were blown down and some power lines as well.

Upson County
Thomaston 02 1925EST 0 0 Urban/Snl Stream Fld
An amateur radio operator reported that very heavy rain from a thunderstorm caused flooding in some stores in the North Creek Shopping Center. Up to four inches of water was reported in some stores.

Upson County
4 N Thomaston 02 1930EST 0 0 5K Tstm Wind/Hail
The public reported that a tree fell down on a mobile home.

Clarke County
6 E Whitehall to Athens 02 2000EST 0 0 10K Thunderstorm Wind
02 2040EST

The Athens Daily News reported that trees were down across the entire southeastern portion of Clarke county, including the Athens area. The trees brought down many power lines as well, causing nearly 5000 residents to be without power during the evening hours. Much of the damage occurred in the Cedar Creek Subdivision. Some of the downed trees blocked roads, including Midway road, on which both lanes of traffic were blocked, and on Oglethorpe Avenue near the entrance to the U.S. Navy Supply Corps School, where both lanes were blocked as well.

Floyd County
1 N Mt Berry 02 2000EST 0 0 4K Lightning
The Rome News Tribune reported that two thoroughbred geldings (horses) were killed when they were struck by lightning. The horses were used by the school's equestrian team Hunter-Jumper for competitions. They were killed while standing near a tree during the thunderstorm.

Floyd County
Silver Creek to Rome 02 2000EST 0 1 55K Thunderstorm Wind
02 2030EST

The Rome News Tribune reported that thunderstorm winds wreaked havoc on downtown Rome. The Civil War constructed Brock's Greek Revival Mansion, often referred to as 'Sherman Oaks', was severely damaged when two 100-foot tall oak trees crashed through the roof. Nearby on the same street, debris from another storm damaged tree caused significant damage to a Ford Expedition. At the Knight's Tower Hill Apartment building, also constructed during the Civil War, a downed tree caused significant damage to a parked vehicle. Another large tree was toppled at the historic Myrtle Hill Cemetery. The tree fell near the cemetery's apex and caused damage to a wall at the Hight gravesite. The public reported that some power lines were down in the southeastern part of Floyd county near Silver Creek. One person was injured as a result. Over 8000 residents in the county were without power much of the evening, either from downed power lines or lightning strikes to power lines.

Oconee County
Countywide 02 2000EST 0 0 5K Thunderstorm Wind
02 2030EST

The Athens Daily News reported that several trees were blown down across the county.
GEORGIA, North and Central

Oglethorpe County
Lexington to Arnoldsville
The Athens Daily News reported that several trees were blown down in the county, mainly near U.S. Highway 78. The downed trees also knocked down several power lines. At least two trees were blown down on U.S. Highway 78.

Morgan County
Madison
The Morgan county Emergency Management Director reported that two trees were blown down.

Polk County
6.5 W Rockmart to Rockmart
The public reported that numerous trees were blown down on a farm west of Rockmart. An amateur radio operator reported that several tree limbs were blown down on power lines in Rockmart.

Polk County
Aragon
The Polk county 911 center reported nickel size hail.

Catoosa County
8 SW Ringgold
The public reported quarter size hail in Ringgold and the Catoosa county Sheriff reported dime size hail near the Catoosa-Walker county line.

Dawson County
5 NW Emma
The Amicalola State Park reported dime size hail.

Pickens County
Nelson
The public reported dime size hail.

Pickens County
Jasper
The public reported dime size hail.

White County
Sautee
The public reported dime size hail.

Cherokee County
Woodstock
Several reports of hail, ranging in size from nickels to half-dollars, were received from the public.

Cherokee County
Holly Spgs to Canton
The Cherokee county Emergency Management Director reported that numerous trees were blown down.

Emanuel County
Swainsboro
The Emanuel county 911 center reported that two trees were blown down.

Cobb County
Kennesaw
The Marietta Daily Journal and a tree service company reported that numerous trees were down.

Cherokee County
Holly Spgs
A storm spotter reported dime size hail.

Cobb County
Smyrna
The Marietta Daily Journal and a tree service company reported that numerous trees were blown down.

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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>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Property Damage</th>
<th>Character of Storm</th>
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<tbody>
<tr>
<td>GEORGIA, North and Central</td>
<td></td>
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</tbody>
</table>
### Storm Data and Unusual Weather Phenomena

#### GEORGIA, North and Central

<table>
<thead>
<tr>
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<th>Date</th>
<th>Time Local/Standard</th>
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<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
<th>Estimated Property Damage</th>
<th>Character of Storm</th>
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<td>Alpharetta</td>
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<td>The Fulton county 911 center reported that two trees were down in Alpharetta and one tree in Atlanta.</td>
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<td>1615EST</td>
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<td></td>
<td>The Marietta Daily Journal reported that six homes were struck by lightning. Two of the homes sustained major damage and the residents had to be relocated to alternative housing. No injuries or deaths were reported.</td>
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<tr>
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<td>Lightning</td>
</tr>
<tr>
<td>Lyons</td>
<td></td>
<td></td>
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<td></td>
<td>The Advance Progress Newspaper of Vidalia reported that lightning struck and killed a 45-year old man while on a construction site at the Toombs County Middle School on Center Road. The individual was part of a crew of construction workers at the school. While the others had sought shelter in their vehicles during the thunderstorm, the worker killed had returned to the construction site to retrieve some tools. It was while doing this that he was struck and killed by lightning. M45OU</td>
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<tr>
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<td>Marietta</td>
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<td>AM Radio Station 750 reported that there was water, as much as three feet deep, at the intersection of Delk and Johnson Ferry Road.</td>
</tr>
<tr>
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<td></td>
<td></td>
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<td>Smyrna</td>
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<td></td>
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<td>The public reported dime size hail.</td>
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<td>0</td>
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<td>Tstm Wind/Hail</td>
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<td>Calhoun</td>
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<td></td>
<td>The Gordon county 911 center reported that some tree limbs were down and the public reported pea size hail.</td>
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<td>De Kalb County</td>
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<td>0</td>
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<td>Urban/Sml Stream Fld</td>
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<tr>
<td>2 NW Druid Hills to 1 NW Druid Hills</td>
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<td></td>
<td>An amateur radio operator reported street flooding at the Interstate 85 and Shallowford/Clairmont Road exits in the Briarcliff community area.</td>
</tr>
<tr>
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<td>Hail(0.75)</td>
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<td>Colbert</td>
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<td></td>
<td></td>
<td></td>
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<td>The public reported dime size hail.</td>
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<td>Urban/Sml Stream Fld</td>
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<tr>
<td>5.5 W Griswold</td>
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<td></td>
<td>An amateur radio operator relayed a report from a local public service radio station that a stopped up drain was causing flooding of U.S. Highway 129 near the Bibb/Jones county line.</td>
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<tr>
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<td>0</td>
<td>0</td>
<td>0.50K</td>
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<tr>
<td>Zebulon</td>
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<td></td>
<td>The Pike county 911 center reported that two trees were blown down.</td>
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<tr>
<td>Meriwether County</td>
<td>04</td>
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<td>0</td>
<td>0.50K</td>
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<tr>
<td>Greenville</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>The Meriwether county 911 center reported that two trees were blown down.</td>
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<tr>
<td>Coweta County</td>
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<td>0.50K</td>
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<td>Tstm Wind/Hail</td>
<td></td>
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<tr>
<td>5 SW Newman</td>
<td></td>
<td></td>
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<td></td>
<td>The Coweta county 911 center reported that a tree was down across Corinth and Millard-Farmer Road.</td>
</tr>
<tr>
<td>Heard County</td>
<td>04</td>
<td>1650EST</td>
<td>0</td>
<td>0</td>
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<td></td>
<td></td>
<td>Lightning</td>
</tr>
<tr>
<td>Franklin</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Lightning struck a transformer in the county and set it on fire.</td>
</tr>
<tr>
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<td>04</td>
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<td>1K</td>
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<tr>
<td>Glenloch</td>
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<td>1746EST</td>
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<td></td>
<td></td>
<td>The Heard county 911 center reported that trees were down.</td>
</tr>
</tbody>
</table>
GEORGIA, North and Central

Carroll County
Bowdon Jct
04 1830EST
The Carroll county 911 center reported that trees were down.

Carroll County
Mt Zion
04 1900EST
The Times Georgian newspaper of Carrollton reported that lightning struck and destroyed a Mt Zion home. All of the residents were across the street at the time of the incident, thus no injuries or deaths were reported.

Webster County
Weston
06 1545EST
The Meritt Pecan Farm reported dime to nickel size hail.

Emanuel County
Canoochee to Summertown
06 1630EST
The Emanuel county 911 center reported that two trees were blown down, one in Canoochee and one in Summertown.

Johnson County
Wrightsville
06 1630EST
The Wrightsville Fire Department/Rescue Squad reported that some trees were blown down.

Johnson County
7 W Wrightsville
06 1640EST
The public reported dime size hail.

Washington County
Harrison
06 1640EST
The Harrison Fire Department/Rescue Squad reported that trees were blown down on Georgia Highway 231.

Houston County
Warner Robins to Bonaire
06 1715EST
The public reported nickel to quarter size hail in Warner Robins and dime size hail in Bonaire.

Johnson County
Wrightsville
06 1720EST
The Johnson county sheriff reported quarter size hail.

White County
Helen to Sautee
06 1720EST
The White county 911 center reported that numerous trees were down across the eastern part of the county, from Helen eastward.

Houston County
Warner Robins
06 1722EST
The public reported that some trees were blown down. Winds were estimated by an amateur radio operator at 70 mph.

Toombs County
Countywide
06 1740EST
The Advance Progress newspaper of Vidalia reported that extensive damage was caused by thunderstorm winds to homes and businesses in the city. A canopy was ripped off a food store in town and carried some 100 feet in the air before landing on a Jeep Cherokee at a car sales lot causing considerable damage to the vehicle. Roof and other structural damage was reported to a number of homes and businesses in the downtown area. One brick building lost its roof and the walls caved in. The Toombs county 911 center reported that trees and power lines were down across the county.

Jefferson County
Wrens
06 1803EST
The Wrens police department reported golf ball size hail.

Telfair County
Lumber City
06 1830EST
The Lumber City police department reported that two power lines were down, two railroad crossing arms were damaged, and a few trees were also blown down.
GEORGIA, North and Central

Wheeler County
Jordan to 8 S Jordan
06 1910EST
The Wheeler county 911 center reported that trees and power lines were down along Georgia Highway 19 from Jordan south to the Telfair county line, near Lumber City.

Dooly County
Unadilla
06 1919EST
The Dooly county 911 center reported that several trees were blown down.

Dooly County
Pinehurst
06 1927EST
The Dooly county 911 center reported that a few trees were blown down.

Houston County
Elko
06 1930EST
The Houston county 911 center reported quarter size hail.

Dooly County
Pinehurst
06 1937EST
The Dooly county 911 center reported dime size hail.

Fayette County
1 W Fayetteville
06 2000EST
The Fayette county 911 center and the public reported that numerous trees were blown down just west of the downtown square. One power line was down as well. Tree limbs were reported down on Walker Street.

Meriwether County
Cove to Durand
06 2330EST
The Meriwether county 911 center reported that several trees were blown down across the southern part of the county from Cove to Durand. In addition, a tree fell on a mobile home in Durand.

Harris County
5 ESE Pine Mtn
06 2345EST
An employee of the State Forestry Commission reported that some trees were down on Georgia Highway 190 in the Franklin D. Roosevelt State Park.

Toombs County
Countywide
07 1316EST
The Toombs county sheriff reported that numerous trees were down across the county, especially the southern part.

Dooly County
Vienna
07 1558EST
The Dooly county 911 center reported that two trees were down in the city.

Upson County
3 E Thomaston to 3 ENE Thomaston
07 1610EST
The Upson county Emergency Management Director reported that trees were blown down.

Sumter County
4 NW Andersonville
07 1700EST
The Americus Times-Recorder reported that lightning struck an entertainment cabin/resort referred to as the "Quack Shack". The resulting fire completely destroyed the cabin. The cabin had been used since the early 1980s as a fun place to visit and a leisurely abode for many people, including lawyers, doctors, and even the Atlanta Braves baseball team.

Taylor County
2 NE Butler
07 1730EST
The Taylor County News reported that a roof was blown off a barn on a farm just northeast of Butler off Georgia Highway 137. The roof traveled nearly 300 feet before landing in the residents driveway.

Chattahoochee County
Ft Benning
07 1800EST
The Chattahoochee county 911 center reported that several large trees were down on roads within the Fort Benning Military Reservation.
### GEORGIA, North and Central

**Muscogee County**  
Benning Hills 07 1800EST 0 0 5K Thunderstorm Wind  
The Fort Benning military police reported that numerous trees and some power lines were down in the southeast part of Columbus.  

**Johnson County**  
2 WSW Meeks 11 1345EST 0 0 0.50K Thunderstorm Wind  
The public reported that several trees had been blown down.  

**Henry County**  
Stockbridge 11 1415EST 0 0 Tstm Wind/Hail  
The public reported pea size hail.  

**Oconee County**  
Watkinsville 11 1612EST 0 0 100K Lightning  
The Oconee Enterprise of Watkinsville reported that a fire was started at a home when lightning struck a pine tree and then traveled to the nearby garage. The garage caught fire and was gutted. Smoke and heat damage was also reported to neighboring parts of the home and all possessions stored in the garage were destroyed. Lightning caused problems at other locations in Watkinsville, including knocking out a transformer at a local bakery, damaging sheet rock at another home, and striking a tree which then fell onto a local road.  

**Union County**  
6 NW Blairsville 11 2135EST 0 0 Urban/Sml Stream Fld  
The Union county 911 center reported that Ivy Log Creek had risen out of its banks.  

**Washington County**  
Riddleville 21 1230EST 0 0 Hail(0.75)  
The Washington county 911 center reported dime size hail.  

**Emanuel County**  
Blundale 21 1332EST 0 0 Hail(0.75)  
The Emanuel county 911 center reported dime size hail.  

**Upson County**  
East Thomaston to Thomaston 21 1344EST 0 0 0.50K Thunderstorm Wind  
An amateur radio operator reported that one inch tree limbs were down in East Thomaston near the intersection of Georgia Highway 36 and Georgia Highway 74. Trees were reported down in Thomaston by the public.  

**Jefferson County**  
Wadley 21 1345EST 0 0 Tstm Wind/Hail  
The Wadley Fire and Police Department reported that one tree was down.  

**Upson County**  
Thomaston 21 1350EST 0 0 Hail(0.75)  
The public reported dime size hail.  

**Peach County**  
Ft Vly 21 1420EST 0 0 Hail(0.75)  
The public reported dime size hail.  

**Muscogee County**  
Upatoi 21 1530EST 0 0 Hail(1.00)  
The public reported that hail, ranging in size from dimes to quarters, fell for a period of 15 to 20 minutes. A rainfall estimate of four to five inches was also provided at this same location.  

**Muscogee County**  
Upatoi 21 1600EST 0 0 20K Thunderstorm Wind (G61)  
The public reported that large tree limbs were blown. Winds gusts were estimated at two different locations in Upatoi at 65 to greater than 70 mph.  

**Talbot County**  
1 NW Tax Xrds 21 1600EST 0 0 Thunderstorm Wind  

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<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>Property Damage</th>
<th>Crop Damage</th>
<th>Character of Storm</th>
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<tbody>
<tr>
<td>GEORGIA, North and Central</td>
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<td>Muscogee County</td>
<td>Benning Hills</td>
<td>07 1800EST</td>
<td>0</td>
<td>5K</td>
<td>Thunderstorm Wind</td>
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<tr>
<td>Johnson County</td>
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<td>0</td>
<td>0.50K</td>
<td>Thunderstorm Wind</td>
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<tr>
<td>Henry County</td>
<td>Stockbridge</td>
<td>11 1415EST</td>
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<td>Emanuel County</td>
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<td>0</td>
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<tr>
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<td>Thunderstorm Wind</td>
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<tr>
<td>Upson County</td>
<td>Thomaston</td>
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<td>0</td>
<td>Hail(0.75)</td>
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<tr>
<td>Peach County</td>
<td>Ft Vly</td>
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<td>Upatoi</td>
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<td>0</td>
<td>Hail(1.00)</td>
<td>Thunderstorm Wind (G61)</td>
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<td>Upatoi</td>
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<td>Thunderstorm Wind</td>
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<td>Talbot County</td>
<td>1 NW Tax Xrds</td>
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<td>0</td>
<td>Thunderstorm Wind</td>
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</tbody>
</table>

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76
The Talbotton New Era newspaper reported that thunderstorm winds caused considerable damage in the far northern part of the county, northwest of Tax Crossroads in the Dunn Road and Magic Hill Road areas. Several large trees, one to two feet in diameter, were either uprooted or broken in half. One large tree fell on the front of a house causing considerable damage to the structure, while another tree in the same yard fell on a compact car and crushed it. Other roofs were blown off barns and cattle stables in the same general area, and other smaller trees and rooftops sustained minor damage.

The public reported dime size hail.

<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</th>
<th>Injured</th>
<th>Estimated Damage</th>
<th>Property</th>
<th>Crops</th>
<th>Character of Storm</th>
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<tr>
<td>Spalding County</td>
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<td>Griffin</td>
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<td>1615EST</td>
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<td>Hail(0.75)</td>
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<td>The public reported dime size hail.</td>
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<td>Muscogee County</td>
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<tr>
<td>Columbus to Upatoi</td>
<td>21</td>
<td>1620EST</td>
<td>1620EST</td>
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<td>25K</td>
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<td>Thunderstorm Wind</td>
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<td>1637EST</td>
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<td>The Columbus Ledger-Enquirer and several reports from the public indicated that numerous trees were blown down in the Columbus and Upatoi area. In Columbus, several large trees were blown down, some landing on homes causing minor to major damage. Trees also blocked several roads in the area. In Upatoi, a few trees were blown down and a metal awning was blown off a bay window at a home. Some trees were also blown down and minor structural damage was noted east of Upatoi in extreme eastern Muscogee county near the Talbot county line and just west of Box Springs. During the peak of the storm, some 12,000 customers were without electricity across the northern portions of Muscogee county.</td>
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<td>The public reported dime to quarter size hail in Upatoi and dime size hail in Columbus and North Columbus.</td>
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<td>The Harris county 911 center reported that some power lines were down.</td>
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<td>The public reported dime to nickel size hail.</td>
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<td>Fayette County</td>
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<td>Tstm Wind/Hail</td>
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<td>The Citizen newspaper of Fayetteville, reported that a large tree, blown down by thunderstorm winds, fell on a house and caused significant damage to one corner of the house.</td>
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<td>Coweta County</td>
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<td>5 NE Mc Collum</td>
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<td>An amateur radio operator reported dime size hail 3 miles north of Major, near Interstate 85 in the far northeast part of the county.</td>
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<td>3 N Newnan</td>
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<td>1700EST</td>
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<td>Hail(0.75)</td>
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<td>The public reported that hail, the size of nickels, fell for up to 10 minutes duration. An amateur radio operator reported dime size hail.</td>
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<td>An amateur radio operator reported that street flooding was observed as two inches of rain fell in about one hour.</td>
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<td>Toombs County</td>
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<td>The Toombs county 911 center reported that a few trees were blown down.</td>
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<td>The Toombs county 911 center reported pea size hail.</td>
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<td>Coweta County</td>
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<td>Newnan to Senoa</td>
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<td>1705EST</td>
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<td>2K</td>
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<td>Thunderstorm Wind</td>
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<td>The Newnan Times Herald reported that several large trees were blown down in Newnan, including a 100 foot Poplar tree. Damage was most extensive in the Bridgewater subdivision. Trees were also down on power lines in Senoa.</td>
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<td>Cobb County</td>
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<td>1725EST</td>
<td>0</td>
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<td>Hail(0.75)</td>
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<td>The public reported dime size hail. The public also reported that 1.8 inches of rain fell in about 30 minutes.</td>
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</tbody>
</table>

68
# Storm Data and Unusual Weather Phenomena

## GEORGIA, North and Central

### Coweta County
- **Newnan**
  - Date: 21 July 2002
  - Time: 1800EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Property Damage: 0.25K
  - Storm Type: Lightning
  - Note: The public reported that lightning struck a tree, causing the tree to split and fall near Georgia Highway 34.

### Douglas County
- **Winston**
  - Date: 21 July 2002
  - Time: 1805EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Property Damage: Hail(0.75)
  - Note: The public reported that dime size hail fell for five minutes. A few tree limbs were also blown down.

### Bartow County
- **Cartersville**
  - Date: 22 July 2002
  - Time: 1800EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Property Damage: 1K
  - Storm Type: Thunderstorm Wind
  - Note: The Bartow county 911 center reported that five trees were blown down.

### Clayton County
- **Jonesboro**
  - Date: 22 July 2002
  - Time: 1900EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Property Damage: Hail(1.00)
  - Note: The public reported dime to quarter size hail.

### Cobb County
- **Macon**
  - Date: 22 July 2002
  - Time: 1920EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Property Damage: Hail(0.75)
  - Note: A storm spotter reported dime size hail. One tree was also blown down on Macland Road.

### Fayette County
- **1.5 NW Kenwood**
  - Date: 22 July 2002
  - Time: 1920EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Property Damage: Hail(0.75)
  - Note: An amateur radio operator reported dime size hail at the intersection of Georgia Highways 314 and 279.

### Paulding County
- **Dallas**
  - Date: 22 July 2002
  - Time: 1934EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Property Damage: Hail(1.00)
  - Note: The public reported dime to golf ball size hail.

### Cobb County
- **Acrworth**
  - Date: 22 July 2002
  - Time: 1940EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Property Damage: Hail(1.00)
  - Note: The public reported quarter size hail.

### Cobb County
- **Powder Spgs**
  - Date: 22 July 2002
  - Time: 1941EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Property Damage: Hail(0.75)
  - Note: A storm spotter reported dime size hail.

### Douglas County
- **Douglasville**
  - Date: 22 July 2002
  - Time: 2000EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Property Damage: Hail(0.75)
  - Note: A storm spotter reported dime size hail at the Interstate20 and Chapel Hill Road interchange.

### Douglas County
- **Douglasville**
  - Date: 22 July 2002
  - Time: 2000EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Property Damage: 485K
  - Storm Type: Lightning
  - Note: The Douglas county Emergency Management Director reported that three homes and one outbuilding were set on fire by lightning strikes around the county. One home and its contents were completely destroyed off Georgia Highway 166 south of Douglasville, two other homes suffered major damage, and one outbuilding was destroyed in the Marie's Lake subdivision.

### Douglas County
- **Mc Whorler**
  - Date: 22 July 2002
  - Time: 2045EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Property Damage: 1K
  - Storm Type: Thunderstorm Wind
  - Note: The public reported that some trees and power lines were down at the intersection of Georgia Highway 5 and Georgia Highway 166.

### Towns County
- **Hiawassee**
  - Date: 23 July 2002
  - Time: 1500EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Property Damage: Hail(0.88)
  - Note: The Towns county 911 center reported nickel size hail.

### Towns County
- **Hiawassee**
  - Date: 23 July 2002
  - Time: 1500EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Property Damage: 2K
  - Storm Type: Thunderstorm Wind
  - Note: The Towns county 911 center reported that several trees and power lines were down.

### Fayette County
- **2 W Fayetteville**
  - Date: 23 July 2002
  - Time: 1653EST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Property Damage: Hail(1.75)
  - Note: An employee at the Fayette Community Hospital, west of Fayetteville, reported golf ball size hail.

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GEORGIA, North and Central

Fulton County
5 SE Alpharetta 23 1654EST 0 0 Hail(1.00)
The public reported quarter size hail.

Gwinnett County
Duluth to Lawrenceville 23 1700EST 0 0 550K Lightning
The Gwinnett Daily Post of Lawrenceville reported that at least four homes in Lawrenceville were struck and set on fire by lightning and the garage of another home in Duluth sustained minor damage because of a lightning strike. Literally dozens of lightning related calls were received by Gwinnett county firefighters during the one hour period. Two of the homes in Lawrenceville, one a two-story home, suffered major damage, while the other two sustained minor damage caused by attic fires. There were no injuries or deaths reported with these incidents.

Cobb County
Smyrna 23 1707EST 0 0 Hail(0.75)
A storm spotter reported dime size hail.

Gwinnett County
Norcross 23 1710EST 0 0 Hail(0.75)
The public reported dime size hail.

Bartow County
Cartersville 23 1728EST 0 0 1K Thunderstorm Wind
The Bartow county 911 center reported that some trees and power lines were down.

Cobb County
Fair Oaks 23 1730EST 0 0 Urban/Sml Stream Fld
The public reported flooding along Olley Creek.

GAZ020
Bartow 23 1730EST 0 0 Flood
The Bartow county Emergency Management Director reported that a home was flooded from heavy thunderstorm rains with up to three inches of water reported in the home.

Gwinnett County
Norcross 23 1730EST 0 0 Hail(0.88)
A storm spotter reported nickel size hail.

Muscogee County
Columbus 23 1753EST 0 0 1K Thunderstorm Wind
The Muscogee county 911 center reported that some trees and power lines were down.

Spalding County
Griffin 23 1815EST 0 0 1K Thunderstorm Wind
The Spalding county 911 center reported that some trees and power lines were down.

Fayette County
Brooks 23 1855EST 0 0 450K Lightning
The Fayette county Emergency Management Director reported that lightning struck a large two-story home near Brooks on Crabapple Road. The home was completely destroyed by the resulting fire.

Coweta County
5 NE Mc Collum 23 1900EST 0 0 1K Lightning
The Newnan Times Herald reported that lightning struck a clump of four, very large, Poplar trees on the Cannongate Golf Course, near the small town of Major in extreme northeast Coweta county. The trees average around 125 feet in height. One of the trees was reduced to a 15 foot stump, another to a 40 foot miniature of itself, a third was split and splintered down the middle, and a fourth was blackened and scarred by the lightning strike. The trees were so large that it was estimated that it would take eight men, eight hours to clean up the destroyed trees.

Harris County
Pine Mtn 24 1435EST 0 0 Hail(0.88)
The public reported nickel size hail.

Houston County
Centerville 24 1800EST 0 0 Hail(0.75)
Morgan County

Madison

24 1815EST
0 0 250K Lightning
The Madisonian newspaper of Madison reported that lightning struck a large two-story home in the Cedar Lakes subdivision. The lightning struck the bonus room above the garage, but fire, smoke and water left the house virtually destroyed.

Telfair County

Mc Rae

28 1848EST
0 0 Urban/Smn Stream Fld
The Telfair county 911 center reported that a road was washed out in McRae.

Coweta County

Countywide

30 1425EST 1440EST
0 0 Tstm Wind/Hail
The Coweta county 911 center and the public reported pea size hail at several locations around the county, particularly in the Sharpsburg area.

Morgan County

3 SE Madison

30 1444EST
0 0 Hail(0.75)
The Morgan county 911 center reported dime size hail.

Cobb County

Acworth

30 1729EST
0 0 Hail(0.75)
The public reported dime size hail.

Cobb County

Marietta to 2 W Elizabeth

30 1740EST 1752EST
1 0 3K Lightning
Several newspapers, including the Atlanta Journal-Constitution, the Marietta Daily Journal, the Columbus Ledger Enquirer, and the Macon Telegraph, as well as the Cobb county Emergency Management Agency and local Atlanta TV stations, reported on a lightning strike and subsequent death to a 49-year old woman from Marietta who was hiking in the Kennesaw National Battlefield park. The woman was hiking on Kennesaw Mountain in the National Battlefield park with her husband and dog. No rain was falling at the time, but thunderstorms surrounded the area with considerable cloud-to-ground lightning activity. The lightning struck the woman at 6:52 pm EDT while she was approximately 30 feet ahead of her husband around a bend in the trail. Her husband found her flat on the ground, immediately after the strike, unconscious, but still alive at the time. She was immediately transported to a local hospital where she was pronounced dead on arrival. In addition to this incident, two homes in the Marietta area were set on fire by lightning strikes during this same round of thunderstorms. F49UT

Floyd County

1.5 N Mt Berry

30 1744EST
0 0 1.5K Tstm Wind/Hail
The Floyd county 911 center reported that a tree fell down near Berry College and knocked a tree down onto a traffic signal.

Cobb County

Acworth to 3 E Marietta

30 1800EST 1815EST
0 0 Hail(0.88)
An amateur radio operator reported dime to nickel size hail near Johnson's Ferry Road in Marietta, while the public reported dime to nickel size hail in and just east of Marietta. The public also reported dime size hail in Acworth.

Floyd County

5 SE Rome

30 1839EST
0 0 1K Thunderstorm Wind
The Floyd county 911 center reported that several trees were down off Georgia Highway 101.

Polk County

2 W Rockmart to 1 N Fish

30 1950EST
0 0 2K Thunderstorm Wind
An amateur radio operator reported that three trees were blown down, one landing on the roof of a home located just west of Rockmart off U.S. Highway 278, while yet another tree fell down on the roof of an old store in Fish Creek.

Floyd County

Rome

30 2025EST
0 0 Hail(0.75)
The Floyd county 911 center reported dime size hail.

Floyd County

Rome

30 2025EST
0 0 1K Thunderstorm Wind
The Floyd county 911 center reported that several trees were blown down in the Horse Lake Creek subdivision.

Floyd County

Rome

30 2025EST
0 0 Urban/Smn Stream Fld
GEORGIA, North and Central

The Floyd county 911 center indicated that street flooding was occurring in the Horse Lake Creek subdivision. In addition, water was reported in one building because of backed up drains.

Floyd County
Armuchee
31 1339EST 0 0 Hail(0.75)
The public reported dime size hail.

Forsyth County
Cumming
31 1520EST 0 0 175K Lightning
The Forsyth county Emergency Management Director reported that lightning strikes caused several structural fires. The Forsyth County newspaper reported that lightning struck a home in the Gran Forest subdivision. The home was completely destroyed by the resulting fire. Damage to other homes was minor.

Forysth County
3 NW Cumming to Drew
31 1530EST 0 0 25K Thunderstorm Wind
The Forsyth County News and the Emergency Management Director reported that numerous trees and power lines were blown down west and northwest of Cumming, near Drew, along Georgia Highway 371 and in Cumming as well. In addition, a small portion of a roof was blown off a store and a chicken house was blown down. Two homes were damaged by the fallen trees and more than a dozen power lines were knocked down by trees. A large oak tree crushed the roof of one home and another large tree fell in front of an apartment complex in Cumming. Traffic was detoured in the city around downed power lines, wires, and trees or tree limbs and debris.

Gwinnett County
2.5 S Lawrenceville
31 1530EST 0 0 Hail(0.88)
The public reported nickel size hail.

Bleckley County
Countywide
31 1600EST 0 0 1K Thunderstorm Wind
The Bleckley county 911 center reported that a few trees were down throughout the county.

Dodge County
3 NW Eastman
31 1600EST 0 0 2K Thunderstorm Wind
The Dodge county 911 center reported that some trees and power lines were down.

Fulton County
Warsaw
31 1600EST 0 0 1K Thunderstorm Wind
An amateur radio operator reported that a few trees and a utility line were down near Medlock Bridge and Bobby Jones Road at the Atlanta Athletic Club.

Gwinnett County
2 NW Duluth to Duluth
31 1600EST 0 0 Hail(0.75)
The public and an amateur radio operator reported dime size hail in Duluth and northwest of Duluth on Peachtree Industrial Boulevard.

Gwinnett County
Duluth
31 1610EST 0 0 0.50K Thunderstorm Wind
The public reported that a few trees were blown down.

De Kalb County
Stone Mtn
31 1615EST 0 0 Hail(0.75)
The public reported dime size hail.

De Kalb County
Stone Mtn
31 1615EST 0 0 0 Thunderstorm Wind
The public reported that a few tree limbs were blown down.

Emanuel County
Swainsboro
31 1620EST 0 0 300K Lightning
The Forest Blade newspaper of Swainsboro, as well as the Macon Telegraph, and other local media outlets reported that lightning struck several homes and the Hillcrest Baptist Church. The church was completely destroyed by the resulting fire. Damage to the homes was minor to moderate, but the church was completely destroyed. No injuries or deaths occurred with the incidents.

Rockdale County
Conyers
31 1630EST 0 0 Hail(0.88)
GEORGIA, North and Central

The public reported dime to nickel size hail. Winds were estimated at 55 mph.

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Local/Standard 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>
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<td>The Bleckley county 911 center reported that a few trees were blown down throughout the county.</td>
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<td>A local media output indicated there was some street flooding.</td>
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<td>The Greene county Sheriff and the county 911 center reported that several trees were down throughout the county, especially along Interstate 20 in Greensboro. Pea size hail was also reported in Greensboro.</td>
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<td>Stapleton to Wrens</td>
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<td>The Jefferson county 911 center reported that some trees were down from Jefferson to Wrens.</td>
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<td>5 NW Sparta</td>
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<td>The Hancock county 911 center reported that several trees were down along Georgia Highway 77 northwest of Sparta.</td>
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<td>Bolingbroke</td>
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<td>The public reported that dime to nickel size hail covered the ground.</td>
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<td>4 SE Forsyth</td>
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<td>The Monroe county 911 center reported that several trees and some power lines were down.</td>
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<td>The Washington county sheriff and the county 911 center reported that several trees were down.</td>
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<td>The public reported dime size hail in the Barrington Hall subdivision of Macon.</td>
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<td>Macon to 2 W Lizella</td>
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<td>Several reports of trees down were received from the public and the county 911 center of trees down in the Barrington Hall subdivision of Macon and five miles northwest of Macon. A lone tree was reported down west of Lizella near the Crawford county line.</td>
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<td>The Wrightsville Headlight reported that lightning struck a restored, older home in town, igniting a fire, and causing considerable damage. The kitchen was heavily damaged, with much of the house suffering minor cosmetic damage because of heat and smoke. This home on North Marcus Street, was believed to be one of the oldest homes in the town, built in 1880.</td>
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## Storm Data and Unusual Weather Phenomena

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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</th>
<th>Person Killed</th>
<th>Person Injured</th>
<th>Estimated Damage</th>
<th>Property Damage</th>
<th>Crop Damage</th>
<th>Character of Storm</th>
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## GEORGIA, Southeast

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

**July 2002**

- **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**

  - **01 0000EST**
  - **2359EST**

  - **Drought**

  - Moderate to severe drought conditions continued over southeast Georgia through the month of July. Rainfall for the month was 2.89 inches below normal for the month.

- **Tattnall County**

  - **8 SW Reidsville**

  - **03 1450EST 1455EST**

  - **Hail(0.75)**

- **Liberty County**

  - **4 SW Hinesville**

  - **03 1700EST**

  - **Thunderstorm Wind (G50)**

  - Numerous large limbs and power lines down across central portion of county

- **Bulloch County**

  - **2 N Portal**

  - **06 1515EST 1520EST**

  - **Hail(0.75)**

- **Jenkins County**

  - **5 S Millen**

  - **06 1630EST**

  - **Thunderstorm Wind (G50)**

  - Large limbs and power lines were blown down by strong thunderstorm winds.

- **Screven County**

  - **8 WNW Hilltonia**

  - **06 1645EST**

  - **Thunderstorm Wind (G50)**

  - Trees and power lines were down.

- **Bulloch County**

  - **2 S Statesboro**

  - **06 1740EST**

  - **Thunderstorm Wind (G50)**

  - Trees and downed power lines caused power outages for several hours.

- **Evans County**

  - **8 SW Claxton**

  - **06 1820EST**

  - **Thunderstorm Wind (G50)**

  - Numerous trees, limbs and power lines were down.
GEORGIA, Southeast

Bulloch County
6 SE Denmark
06 1825EST 0 0 Thunderstorm Wind (G50)
A tree and several large limbs downed some power lines.

Bryan County
Pembroke
06 1855EST 0 0 Hail(0.75)

Long County
5 NE Ludowici
06 1855EST 0 0 Thunderstorm Wind (G50)
Trees and power lines were down.

Bryan County
Pembroke
06 1913EST 0 0 Thunderstorm Wind (G52)
Several trees were down on state road 119.

Candler County
Metter
07 1325EST 0 0 Thunderstorm Wind (G50)
Several trees and power lines were down in the City of Metter.

Tattnall County
4 E Glennville
06 1825EST 0 0 Thunderstorm Wind (G50)
Several trees were down.

Evans County
4 SE Daisy
06 1830EST 0 0 Hail(1.00)

Effingham County
2 E Meldrim
11 1720EST 0 0 Thunderstorm Wind (G50)

Chatham County
Savannah
11 1743EST 0 0 Thunderstorm Wind (G50)

Mcintosh County
4 NE Darien
20 1630EST 0 0 Thunderstorm Wind (G50)
Several trees were down.

Bulloch County
3 NE Nevils
21 1600EST 0 0 Thunderstorm Wind (G50)
Several trees and power lines were down.

Bulloch County
Register
21 1610EST 0 0 Thunderstorm Wind (G50)
Numerous trees and power lines were down.

Candler County
1 W Metter
21 1635EST 0 0 Hail(0.75)

Screven County
6 E Sylvania
21 1640EST 0 0 Hail(0.75)

Screven County
6 E Sylvania
21 1640EST 0 0 Thunderstorm Wind (G52)

Mcintosh County
Crescent
26 1810EST 0 0 Thunderstorm Wind (G50)
Large limbs and power lines were down throughout the community.

Mcintosh County
Eulonia
26 1815EST 0 0 Thunderstorm Wind (G50)
Numerous trees down on I-95 near mile marker 95. South bound lane was blocked for awhile.

Bulloch County
Statesboro
31 1620EST 0 0 Thunderstorm Wind (G50)
Trees and power lines were down.

Effingham County
1 N Guyton
31 1645EST 0 0 Thunderstorm Wind (G50)
Several trees were down.
**GEORGIA, Southeast**

Bulloch County  
Stilson  
31 1650EST  
Several trees down near Highway 119.

Screven County  
4 E Dover  
31 1715EST  
Large limbs and power lines down.

Jenkins County  
Millen  
31 1800EST  
Trees and power lines were down.

**GEORGIA, Southwest**

Tift County  
Harding  
03 1800EST  
Several downed trees reported by the Tift County Sheriff.

Decatur County  
Bainbridge  
04 1545EST  
A man was injured when he was struck by lightning while boating on the Flint River. Reported by Decatur County 911.

Decatur County  
Bainbridge  
04 1545EST  
Several downed trees reported by Decatur 911.

Calhoun County  
5 NE Turman to Turman  
06 1700EST  
Several downed trees reported by the Calhoun County Sheriff.

Turner County  
2 NW Ashburn to Ashburn  
06 2020EST  
A few downed trees and power lines. A roof was blown off a shed. Reported by the Turner County Sheriff.

Seminole County  
Southwest Portion  
07 1600EST  
Several downed trees on State Road 39 near Lake Seminole. Reported by the Seminole County Sheriff.

Thomas County  
Southeast Portion  
19 1755EST  
Two homes were damaged by fallen trees. Numerous downed trees and power lines with several county roads blocked by debris. Reported by the Thomas County EMA.

Brooks County  
Dixie  
19 1820EST  
A few downed trees reported by Brooks County 911.

Miller County  
Mayhaw  
20 1645EST  
Quarter size hail reported by the Miller County Sheriff.

Miller County  
Mayhaw  
20 1645EST  
A roof was blown off a shelter. Reported by the Miller County Sheriff.

Seminole County  
Southwest Portion  
20 1735EST  
A marina on Lake Seminole was damaged, with many boat slips torn off and flung into nearby trees. Reported by the Seminole County EMA.

Lowndes County  
Valdosta  
21 1605EST  
Lightning
GEORGIA, Southwest

Lightning damaged several electrical components and air conditioning units to a water treatment facility. Reported by the Valdosta Daily Times.

Lanier County
5 W Lakeland
Lightning sparked a house fire on Georgia 122 west of Lakeland. Reported by the public.

Decatur County
15 NE Bainbridge
Downed trees reported by Decatur County 911.

GULF OF MEXICO

GMZ230
Corpus Christi To Baffin Bay
Baffin Bay to Corpus Christi
01 0644CST 0745CST
GMZ255
Matagorda Ship Chn To Pt Aransas Out 20Nm
Port Aransas to Port O'Connor
01 0644CST 0745CST
GMZ250
Pt Aransas To Baffin Bay Tx Out 20Nm
Baffin Bay to Port Aransas
01 0644CST 0745CST
GMZ235
Pt O'Connor To Aransas Pass
Port Aransas to Port O'Connor
01 0644CST 0745CST
GMZ230
Corpus Christi To Baffin Bay
Baffin Bay to Port Aransas
01 0739CST 0915CST
GMZ270
Pt Aransas To Baffin Bay Tx 20 To 60Nm
Baffin Bay to Port Aransas
01 0739CST
GMZ250
Pt Aransas To Baffin Bay Tx Out 20Nm
Port Aransas to Baffin Bay
01 0739CST 0915CST
GMZ31
Florida Bay
3 NW Marathon
01 1526EST 1536EST
Waterspout reported 2 miles north of Pigeon Key.

GMZ32
Gulf Side Of The Lower Keys Out 20Nm
5 NE Big Pine Key to Big Pine Key
01 1548EST
Waterspout

GMZ31
7 NE Duck Key to Duck Key
Florida Bay
01 1555EST
Waterspout

GMZ630
Mobile Bay
Alabama Port to Daphne
01 1635CST
Marine Tstm Wind (G35)

A Special Marine Warning was issued for Mobile Bay as a thunderstorm produced a strong outflow boundary that moved across the bay waters. As the gust front approached the Eastern shore of Mobile Bay, the wind gusted to 35 knots (40 mph) at the Fairhope pier. As the gust front moved off the western shore of the bay a short time earlier, a wind gust of 38 knots (44 mph) was recorded at the Brookley Field airport near downtown Mobile.

GMZ54
W End Of The 7 Mile Bridge To Key W Out 20Nm
7 SW Big Pine Key to Big Pine Key
01 1746EST
Waterspout

Waterspout reported by Florida Fish and Wildlife Commission 5 miles south of Summerland Key.

GMZ655
Destin To Pensacola Fl Out 20Nm
Destin
02 0950CST
Marine Tstm Wind (G34)
Storm Data and Unusual Weather Phenomena

GULF OF MEXICO

GMZ830
Old Tampa Bay
02 1635EST
Waterspout offshore of Oldsmar.

GMZ655
Destin
03 1230CST 1340CST
A waterspout was observed near the Mid-Bay Bridge. People stopped on the bridge to watch the spout. The waterspout stayed over the bay and eventually dissipated over water.

GMZ750
2 SE Miramar Beach
03 1400EST
A waterspout was sighted by the public just offshore of Miramar Beach.

GMZ830
Old Tampa Bay
04 0912EST 0933EST
Waterspout could be seen from the St. Petersburg airport and local TV broadcast video.

GMZ75
5 SE Boca Grande to 8 SE Boca Grande
05 1840EST 1850EST
Waterspout reported 5 miles southwest of Key West.

GMZ54
5 SE Key West
05 1845EST 1857EST
Waterspout reported by FAA/Key West Air Traffic Control 1 mile south of Boca Chica Key.

GMZ54
3 SE Key West
05 1849EST 1859EST
Waterspout reported by NWS observer and spotters.

GMZ54
2 S Key West
05 1905EST 1935EST
Waterspout reported by NWS observer and spotters. A second brief waterspout was reported by the NWS observer and spotters in the same vicinity within the lifespan of the recorded waterspout.

GMZ54
4 S Key West
05 1929EST 1936EST
Waterspout reported by NWS observer and spotters. A second brief waterspout also reported by the NWS observer and spotters within the lifespan of the recorded event.

GMZ830
Old Tampa Bay
06 1755EST 1800EST
Waterspout remained over the western part of Old Tampa Bay and dissipated as it approached land.

GMZ856
Bonita Beach To Englewood FL Out 20Nm
07 1414EST
Waterspout near Sanibel Island was reported by the broadcast media and law enforcement.

GMZ655
Destin To Pensacola FL Out 20Nm
07 1825CST
Marine Tstm Wind (G42)

GMZ555
Pascagoula Ms To Sw Pass Of Ms R Out 20Nm
22 2130CST
Marine Tstm Wind (G41)
The Coast Guard reported that three fishing boats were capsized.

GMZ530
Lake Ponchartrain And Lake Maurepas
07 2240CST
Marine Tstm Wind (G42)

GMZ52
Ocean Reef To Craig Key FL Out 20Nm
09 0258EST
Marine Tstm Wind (G35)
Wind gust 40 mph recorded by Molasses Reef CMAN.
### Storm Data and Unusual Weather Phenomena

#### 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>Character of Storm</th>
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<td>7 S Key Largo</td>
<td>09 0305EST</td>
<td>20Nm</td>
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<td>Wind gust 47 mph recorded by Molasses Reef CMAN.</td>
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<td>Englewood To Tarpon Springs Fl Out 20Nm 09 1550EST 1625EST</td>
<td>20Nm</td>
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<td>Waterspout</td>
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<td></td>
<td>Weak thunderstorms produced three waterspouts and six funnel clouds all at the same time within two miles of the coast. The waterspouts did not reach land.</td>
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<td>Two simultaneous waterspouts reported by mariners and airplane pilot.</td>
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<td>Waterspout reported by spotter 3 miles south of the Seven Mile Bridge.</td>
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<td>Two waterspouts were reported just east of the Sunshine Skyway Bridge.</td>
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<td></td>
<td>The waterspout developed rapidly over the mouth of the Peace River before moving onshore at the Fisherman's Village as a tornado.</td>
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<td>Lake Ponchartrain And Lake Maurepas 13 1238CST</td>
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July 2002
### Storm Data and Unusual Weather Phenomena

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<th>Character of Storm</th>
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Waterspout remained near Cape Haze but did not come on shore.

Pilot reported waterspout 9 miles south southeast of the Albert Whitted Airport.

Waterspout
### Storm Data and Unusual Weather Phenomena

**July 2002**

<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>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><strong>GULF OF MEXICO</strong></td>
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<td>A waterspout was observed offshore off the west end of Dauphin Island. The waterspout dissipated over the water.</td>
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<td>A waterspout was observed near the Farewell Buoy south of Dauphin Island. The waterspout remained over the water for several minutes before dissipating over the water.</td>
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<td>Waterspout reported by trained spotter in Estero Bay.</td>
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## Storm Data and Unusual Weather Phenomena

### GULF OF MEXICO

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<th>Location</th>
<th>Time/Length/Path/Number/Killed/Injured/Estimated Damage/Character of Storm</th>
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<td>5 S Marathon</td>
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<td>GMZ31 Florida Bay</td>
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</table>
HAWAII

**Hawaii County**

A brushfire scorched more than 100 acres in the central coastal section of the Puna District on the island of Hawaii. The blaze, whose cause was not known, started near Railroad Avenue along the coast and burned from Hawaiian Beaches toward Hawaiian Paradise Park subdivision. The county used its helicopters to dump water on the fire because of its relative inaccessibility. However, there were no reports of serious property damage or injuries.

---

**Honolulu County**

A brushfire seared 35 acres just east of Pacific Palisades in south central Oahu, along the Manana Trail. The Honolulu Fire Department's Air 1 helicopter, joined by two Army UH-60 Blackhawks, dropped water on the blaze. No homes were threatened by the fire, and there were no serious injuries.

---

**Honolulu County**

A grass fire burned more than 1500 acres in the western part of Oahu, near the end of Waianae Valley Road. How the fire started was not known, but fire officials believed it was intentionally set.

Four helicopters, including two Army UH-60 Blackhawks, dropped water on the blaze to help contain it. A new school and some farm lots, along with rare native plants, were threatened by the fire but sustained no damage. Also, there were no serious injuries reported.

---

**Maui County**

Localized heavy rain embedded within a band of trade showers caused a normally shallow ford along the Waihee Stream in West Maui to rise five feet within a short amount of time. Four hikers trapped by the rising waters were rescued by the Maui Fire Department's Air One helicopter three miles up the stream.

---

**Maui County**

Heavy trade showers caused a stream to rise 2.5 to 3 feet near Ulaino Road in the windward coastal section of East Maui. Fourteen visitors to the area who had driven down Ulaino Road were trapped by the rising waters. Twelve of the people were taken by police and fire personnel to lodging facilities in Hana, while two individuals remained with their vehicles.

---

**Maui County**

Heavy trade showers fell over northern coastal and upslope sections of East Maui. The rain caused the Honopou Stream near Twin Falls to quickly rise and strand two men. However, Maui Fire Department's Air One helicopter was able to rescue the two.

---

**Maui County**

A brushfire scorched 255 acres above Olowalu in West Maui. The cause of the fire was unknown.

The fire was primarily on state land, including a mountain slope that is part of the West Maui Natural Area Reserve. The blaze did not reach part of the reserve containing endangered plant species but did some damage to power lines on a ridge above Olowalu Store. There were no reports of serious injuries.
IDaho, Extreme Southeast

NONE REPORTED.

IDaho, North

Idaho County
12 SE Dixie
19 1400MST 1430MST
Flash Flood
Forest Service reported flash flood on Kitchen Creek. The creek backed up with mud and debris with water level rising to 10 feet, which flooded Salmon River Road.

Lemhi County
Salmon
23 0052MST
0 0
Thunderstorm Wind (G54)

Lemhi County
Salmon
23 0100MST
0 0
Thunderstorm Wind (G52)
Strong thunderstorm winds caused damage in and around the Salmon, ID area. Wind gusts to 62 MPH, downed trees and power lines.

IDaho, Northwest

NONE REPORTED.

IDaho, Southeast

Bannock County
Pocatello
06 2100MST 2300MST
Wild/Forest Fire
Lightning started a 500 acre fire outside of Pocatello on the east benches between Pocatello Creek and Buckskin Roads. 60 homes had to be evacuated and families were sent to shelters. Fire was eventually contained by 7/8 with no damage to homes. The fire got as close as 100 yards to the nearest homes before being completely contained.

IDZ017>023-031>032
Eastern Magic Valley - Sawtooth Mountains - Upper Snake Highlands - Upper Snake River Plain - Lower Snake River Plain - South Central Highlands - Caribou Highlands - Big And Little Wood River Region - Lost River / Pahsimeroi
10 1200MST
15 2100MST
Excessive Heat
A heat wave encompassed all of southeastern Idaho from July 10th through the 15th. Several records were set. Pocatello set an all time record of consecutive days over 100 degrees with 4 from the 11th through the 14th and also set daily high temperature records from the 11th through the 13th. Peak temperatures through the period were the following: 108 at Shoshone and Minidoka; 107 at Massacre Rocks State Park; 105 at Malad and Malta; 104 at Idaho Falls, Richfield and Pocatello City; 103 at Rockland, Grace, McCammon and Pocatello Airport; 102 at Hamer, Howe, Lava Hot Springs, Arbon, Blackfoot, and Picabo; 101 at Soda Springs, Craters of the Moon, and Arco; 100 at Swan Valley and Rexburg; and 98 at Ketchum and Stanley.

Bingham County
Taber
14 1515MST 1525MST
0 0
Thunderstorm Wind (G59)

Jefferson County
Hamer
14 1615MST 1625MST
0 0
Thunderstorm Wind (G71)

Custer County
25 N Stanley
14 1830MST 1850MST
0 0
Thunderstorm Wind (G90)

Power County
Crystal
17 1930MST 2030MST
0 0
Flash Flood
Heavy rain caused a flash flood in the town of Crystal. Rattlesnake Creek exceeded its banks and flooded Upper Road. Clifton Creek exceeded its banks and flooded Myler Road.
IDAHO, Southeast

**Fremont County**
- Island Park: Thunderstorm winds downed trees in Island Park.

**Bannock County**
- Pocatello: 3/4 inch hail reported at intersection of Gibson Jack Road and Banoch Highway.

**Power County**
- 10 N Pauline: Heavy rains caused flash flooding north of Pauline. Water at the confluence of Bannock and Rattlesnake Creeks covering the road at intersection of Arbon Valley Highway and Rattlesnake Road.

**Teton County**
- Driggs: Hail (0.75)

**Bannock County**
- 4 W Inkom: Hail (0.75)
- 10 N Malad City: Hail (0.75)

**Oneida County**
- Pocatello: Hail (0.75)
- Juniper: Hail (0.75)

**Bannock County**
- 4 W Inkom: Hail (0.75)

IDAHO, Southwest

**Canyon County**
- Caldwell: Lightning
- 3 E Notus: Thunderstorm Wind (G50)
- SW Homedale: Wild/Forest Fire
- Nampa: Thunderstorm Wind (G50)
- Countywide: Thunderstorm Wind (G50)

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

**IDAHO, Southwest**

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<th>Time Local/Standard</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>17 SSE Idaho City to 12 NE Idaho City</td>
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<td>Thunderstorm Wind (G50)</td>
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</table>

Thunderstorm winds along a gust front toppled a stack of speakers from the stage of the Idaho Center Amphitheater and into the audience. Four persons were treated for injuries at a local medical center. Outflow winds continued across Canyon County and into Payette, Gem and Ada counties, bringing numerous trees and power lines down across the four counties.

**Boise County**

A line of thunderstorms moved eastward through Boise, Elmore and Valley counties. Numerous trees and power lines were brought down by winds. In Boise County a tree was blown down onto a house in Crouch.

**Payette County**

Evening thunderstorms produced outflow winds across Canyon County that brought down tree limbs up to four inches in diameter in Caldwell. A funnel cloud was spotted in Gem County near the Canyon county line.

**Gem County**

A combination of monsoonal moisture and record-breaking heat fed afternoon thunderstorms that broke out across Southeast Oregon and Southwest Idaho. Clusters of thunderstorms marched northeastward from Malheur County, Oregon and Owyhee County, Idaho, through the Treasure Valley, Boise Foothills and Magic Valley, and then exited the county warning area. Numerous power lines were down in Payette County. A skylight was blown out of a home in southeast Boise and three inch diameter tree limbs were downed in Twin Falls County. Wind gusts to 53 knots were recorded at Lucky Peak RAWS.

**Boise County**

Evening thunderstorms produced outflow winds across Canyon County that brought down tree limbs up to four inches in diameter in Caldwell. A funnel cloud was spotted in Gem County near the Canyon county line.

**Boise County**

Evening thunderstorms produced outflow winds across Canyon County that brought down tree limbs up to four inches in diameter in Caldwell. A funnel cloud was spotted in Gem County near the Canyon county line.

---

86
IDAHO, Southwest

Valley County
Southeast Portion 19 1800MST 1900MST 0 0 Flash Flood
A large, almost stationary thunderstorm cell produced very heavy rainfall over the southeast corner of Valley County and the
northeast corner of Boise County. A two hundred foot section of Fire Rd 579 was washed out by flash flood waters near the
Boise-Valley County line.

Ada County
Boise 22 2045MST 2115MST 0 0 Thunderstorm Wind (G50)

Ada County
2 NW Boise 22 2115MST 2145MST 0 0 Flash Flood

Boise County
Horseshoe Bend 22 2115MST 2145MST 0 0 Thunderstorm Wind (G50)
Thunderstorms that developed in a very unstable airmass during the afternoon continued to intensify throughout the evening hours,
training across parts of Ada County, through the Boise Foothills and into Boise County. Lightning strikes started numerous fires in
the Boise Foothills. Trees and power lines were blown down across west Boise and Horseshoe Bend. Over an inch and a half of
rain fell within 20 minutes in the city of Boise and a section of Pierce Gulch Rd. was washed out in the Boise Foothills.

Payette County
Payette 25 1545MST 1600MST 0 0 Thunderstorm Wind (G50)

Washington County
14 W Weiser 25 1550MST 1610MST 0 0 Thunderstorm Wind (G60)M

Canyon County
Nampa 25 1600MST 1615MST 0 0 Thunderstorm Wind (G50)

Gem County
Emmett 25 1610MST 1625MST 0 0 Thunderstorm Wind (G50)

Ada County
Meridian to
Blacks Creek 25 1615MST 1645MST 0 4 Thunderstorm Wind (G54)M
Thunderstorm winds brought down trees and power lines which left over 5000 homes and businesses without power. Winds also
kicked up dust which reduced visibility to near zero on Interstate 84 near Blacks Creek Road. This resulted in a 12 car pileup in
which four persons were injured. Wind gusts were measured at 62 mph at KTVB TV in Meridian and at 69 mph at Dead Indian
RAWS in western Washington County.

ILLINOIS, Central

Shelby County
Westervelt 09 1639CST 0 0 Thunderstorm Wind (G50)
Thunderstorm winds blew a tree onto a house in Westervelt.

Clark County
2 W Marshall to
8 NE Marshall 09 1703CST 1707CST 0 0 Thunderstorm Wind (G50)
Two trees blown down. One west of Marshall and another northeast of Marshall.

Crawford County
Robinson 09 1743CST 1745CST 0 0 Thunderstorm Wind (G50)
Three large trees, as well as several power lines blown down in Robinson.

Jasper County
St Marie to
West Liberty 09 1820CST 1826CST 0 0 Thunderstorm Wind (G50)
Several trees and power lines blown down.
### Storm Data and Unusual Weather Phenomena

#### July 2002

<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>
<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>Several trees blown down.</td>
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<td>Numerous trees and power lines blown down in Chauncey, Bridgeport, and Lawrenceville.</td>
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<td>A tree was blown over.</td>
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<td>Several large tree limbs were blown down around town.</td>
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<td>Several power lines were blown down around town and a power pole was snapped off.</td>
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<td>Numerous trees, tree limbs, and power lines were blown down countywide.</td>
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<td>Numerous trees, tree limbs, and power lines were blown down around the county. Also, several thousand acres of corn were blown down.</td>
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<td>Thunderstorm winds blew a carport over and moved it 20 yards.</td>
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<td>Cumberland County</td>
<td>22</td>
<td>1955 CST</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G50)</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Neoga</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Numerous large tree limbs were blown down around town.</td>
<td></td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>McLean County</td>
<td>22</td>
<td>2000 CST</td>
<td>0</td>
<td>0</td>
<td>Flash Flood</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 S Le Roy</td>
<td></td>
<td>2200 CST</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Over 4 inches of rain fell in a short amount of time. Numerous roads were flooded including Illinois Route 150 near LeRoy.</td>
<td></td>
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</tr>
<tr>
<td>Clark County</td>
<td>22</td>
<td>2030 CST</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G50)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Martinsville</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A tree was blown over onto an unoccupied car, damaging it.</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Edgar County</td>
<td>22</td>
<td>2030 CST</td>
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<td>0</td>
<td>Flash Flood</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kansas</td>
<td></td>
<td>2230 CST</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Several inches of rain fell in a short amount of time, causing several roads in the Kansas area to have one to two feet of water flowing over them.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Crawford County</td>
<td>22</td>
<td>2045 CST</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G50)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oblong</td>
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</tbody>
</table>
| 88
### Storm Data and Unusual Weather Phenomena

**July 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>
<tbody>
<tr>
<td><strong>ILLINOIS, Central</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peoria County Kickapoo to Peoria</td>
<td>26</td>
<td>0345 CST</td>
<td>0400 CST</td>
<td>0</td>
<td>0</td>
<td></td>
<td>Hail (2.00)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peoria County Peoria</td>
<td>26</td>
<td>0405 CST</td>
<td>0420 CST</td>
<td>0</td>
<td>0</td>
<td></td>
<td>Thunderstorm Wind (G50)</td>
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<td></td>
</tr>
<tr>
<td>Tazewell County 3 E Pekin to Mackinaw</td>
<td>26</td>
<td>0410 CST</td>
<td>0420 CST</td>
<td>0</td>
<td>0</td>
<td></td>
<td>Thunderstorm Wind (G52)</td>
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<td></td>
</tr>
<tr>
<td>Tazewell County Mackinaw</td>
<td>26</td>
<td>0415 CST</td>
<td>0420 CST</td>
<td>0</td>
<td>0</td>
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<td></td>
<td>Hail (1.00)</td>
<td></td>
</tr>
<tr>
<td>Sangamon County Buffalo</td>
<td>26</td>
<td>2205 CST</td>
<td>2225 CST</td>
<td>0</td>
<td>0</td>
<td></td>
<td>Thunderstorm Wind (G50)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fulton County Cuba to 5 NE Cuba</td>
<td>26</td>
<td>2215 CST</td>
<td>2225 CST</td>
<td>0</td>
<td>0</td>
<td></td>
<td>Thunderstorm Wind (G50)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Macon County Decatur to Forsyth</td>
<td>27</td>
<td>0020 CST</td>
<td>0035 CST</td>
<td>0</td>
<td>0</td>
<td></td>
<td>Thunderstorm Wind (G55)</td>
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<tr>
<td>Sangamon County Dawson to Buffalo</td>
<td>27</td>
<td>0124 CST</td>
<td>0330 CST</td>
<td>0</td>
<td>0</td>
<td></td>
<td>Flash Flood</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Logan County New Holland to 3 W Lincoln</td>
<td>27</td>
<td>0126 CST</td>
<td>0430 CST</td>
<td>0</td>
<td>0</td>
<td></td>
<td>Flash Flood</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Knox County Galesburg to Williamsfield</td>
<td>27</td>
<td>0233 CST</td>
<td>0330 CST</td>
<td>0</td>
<td>0</td>
<td></td>
<td>Flash Flood</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peoria County 2 W Kickapoo</td>
<td>28</td>
<td>0808 CST</td>
<td>0810 CST</td>
<td>0</td>
<td>0</td>
<td></td>
<td>Hail (1.75)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mclean County Countywide</td>
<td>28</td>
<td>1400 CST</td>
<td>1430 CST</td>
<td>0</td>
<td>0</td>
<td></td>
<td>Thunderstorm Wind (G50)</td>
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<td></td>
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<tr>
<td>Mclean County 1 NE Normal</td>
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<td>1430 CST</td>
<td>1430 CST</td>
<td>0</td>
<td>0</td>
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<td>Hail (0.75)</td>
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<tr>
<td>Vermillion County West Portion</td>
<td>28</td>
<td>1600 CST</td>
<td>1800 CST</td>
<td>0</td>
<td>0</td>
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<td></td>
<td>Flash Flood</td>
<td></td>
</tr>
<tr>
<td>Logan County Atlanta</td>
<td>28</td>
<td>1625 CST</td>
<td>1930 CST</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td>Flash Flood</td>
<td></td>
</tr>
</tbody>
</table>

Several power lines were blown down around town.

Thunderstorm winds blew over a small metal shed, as well as several large tree limbs.

Several trees and power lines were blown down.

Numerous large tree limbs and several trees were blown down in an area from Cuba to five miles northeast of Cuba.

Numerous trees, tree limbs, and power lines were blown down. A few homes had minor roof damage due to fallen trees and tree limbs. No injuries reported.

Several inches of rain fell in a short amount of time causing numerous rural roads to flood.

Over 2 inches of rain fell in a short amount of time. Numerous roads were flooded, including Interstate 55 near Atlanta for a short time.
July 2002

**ILLINOIS, Northeast**

**ILZ014**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Excessive Heat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cook</td>
<td>01</td>
<td>0800CST</td>
<td>12 0</td>
</tr>
<tr>
<td>Cook</td>
<td>04</td>
<td>2000CST</td>
<td></td>
</tr>
</tbody>
</table>

July 2002 began well above normal with high temperatures in the lower to middle 90s across the Chicago area with overnight low temperatures mainly in the 70s. The prolonged heat and humidity which began in late June 2002, caused several heat related fatalities in Cook county. M59PH, F53PH, F82PH, M69PH, F58PH, F46OU, F71PH, M50PH, M73PH, F60PH, M90PH, M59OT

**ILZ014**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Excessive Heat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cook</td>
<td>07</td>
<td>0800CST</td>
<td>4 0</td>
</tr>
<tr>
<td>Cook</td>
<td>08</td>
<td>2000CST</td>
<td></td>
</tr>
</tbody>
</table>

After a brief cool down on July 5th and 6th, high temperatures reached the upper 80s and lower 90s on July 7th and 8th with low temperatures in the middle to upper 60s. This short hot spell was responsible for 4 fatalities in Cook county. F85PH, M55PH, M45PH, M28OU

**Ogle County**

**Polo to Oregon**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polo to Oregon</td>
<td>08</td>
<td>1940CST</td>
<td>Thunderstorm Wind (G57)</td>
</tr>
<tr>
<td>Polo to Oregon</td>
<td>1950CST</td>
<td>5K</td>
<td></td>
</tr>
</tbody>
</table>

A severe thunderstorm blew down dozens of trees in Ogle county on July 8th. Two large trees fell onto a house in Polo damaging a bedroom and pickup truck.

**De Kalb County**

**Shabbona to Waterman**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shabbona to Waterman</td>
<td>08</td>
<td>2045CST</td>
<td>Thunderstorm Wind (G50)</td>
</tr>
<tr>
<td>Shabbona to Waterman</td>
<td>2050CST</td>
<td>0 0</td>
<td></td>
</tr>
</tbody>
</table>

Numerous trees and power lines were blown down in Shabbona. A barn was blown down on Watson Street, just west of Route 23 near Waterman. A fire engine under restoration in a shed was moved 200 feet into a field after the shed was destroyed.

**Du Page County**

**Central Portion**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Portion</td>
<td>09</td>
<td>0200CST</td>
<td>Flash Flood</td>
</tr>
<tr>
<td>Central Portion</td>
<td>0330CST</td>
<td>0 0</td>
<td></td>
</tr>
</tbody>
</table>

Heavy rain fell over DuPage and Kane counties during the early morning hours of July 9th. Street and basement flooding was reported in Wheaton and West Chicago in Dupage county. Wheaton reported 2.92 inches of rain. Street and basement flooding was also reported in Geneva and Batavia in Kane county. Some retention ponds also filled in Kane county. Batavia reported 5.60 inches of rain and Geneva reported 4.16 inches.

**ILZ014**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Excessive Heat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cook</td>
<td>15</td>
<td>0800CST</td>
<td>10 0</td>
</tr>
<tr>
<td>Cook</td>
<td>22</td>
<td>2000CST</td>
<td></td>
</tr>
</tbody>
</table>

An extended period of hot weather began on July 15th and continued through July 22nd. High temperatures ranged mainly from the upper 80s to middle 90s. July 21st was the hottest day when high temperatures reached the middle to upper 90s. O hare Airport reported their highest temperature of the month, 96 degrees on July 21st. Heat Indices on July 21st reached the 110 to 115 degree range. One day of relief was felt on July 19th, when high temperatures only reached the lower to middle 80s. This prolonged period of heat and humidity resulted in several fatalities across Chicago and Cook county. M60PH, F71PH, M49PH, F39PH, M58PH, M37PH, M57PH, M55PH, F66PH, F78PH

**ILZ014**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Excessive Heat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cook</td>
<td>26</td>
<td>0800CST</td>
<td>2 0</td>
</tr>
<tr>
<td>Cook</td>
<td>28</td>
<td>2000CST</td>
<td></td>
</tr>
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</table>

High temperatures between July 26th and July 28th only reached the upper 80s to near 90, but overnight low temperatures remained in the lower to middle 70s, adding to the prolonged affect of heat. Two fatalities were reported in Cook county. M50PH, M62PH

**ILLINOIS, Northwest**

**Carroll County**

**Chadwick**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chadwick</td>
<td>08</td>
<td>1914CST</td>
<td>Thunderstorm Wind (G61)</td>
</tr>
</tbody>
</table>

Numerous trees blown down.

**Carroll County**

**Lanark**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lanark</td>
<td>08</td>
<td>1914CST</td>
<td>Thunderstorm Wind (G61)</td>
</tr>
</tbody>
</table>

Numerous trees blown down.

**Whiteside County**

**Sterling**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sterling</td>
<td>08</td>
<td>2008CST</td>
<td>Thunderstorm Wind (G61)</td>
</tr>
</tbody>
</table>

Numerous trees blown down.
ILINOIS, Northwest

Whiteside County
1 S Prophetstown
Numerous tree limbs and several power lines blown down.

Henry County
2 NE Atkinson
Corn crop damaged.

Whiteside County
Albany

Mcdonough County
1 NE Fandon

Mcdonough County
2 SE Fandon

Carroll County
Mt Carroll

Carroll County
Savanna

ILINOIS, South

Alexander County
Olive Branch
Several trees and a couple of power poles were blown down.

Edwards County
6 WNW West Salem
A lightning strike caused a grass fire. Heavy rain following the initial lightning extinguished the fire.

Williamson County
Crab Orchard
Nine power poles were blown down at the Crab Orchard Wildlife Refuge.

Union County
5 NE Anna
Large tree limbs were blown down. A person driving between Anna and Lick Creek had a large limb come down on her car, causing sizeable damage to it.

Saline County
Eldorado
Numerous trees and power lines were blown down. Minor roof damage occurred to some homes. The roof was blown off a metal structure.

ILINOIS, Southwest

High temperatures climbed into the middle to upper 90's with the Heat Indices from 105 to 110 degrees.

Pike County
Milton
The County Sheriff reported trees down in the Milton area.

Montgomery County
Hillsboro

91
ILLINOIS, Southwest

Montgomery County
Hillsboro 09 1745CST 0 0 Thunderstorm Wind (G55)

Montgomery County
Taylor Spgs 09 1747CST 0 0 Thunderstorm Wind (G55)

The County Sheriff reported trees and power lines down in Hillsboro. A large tree in Taylor Springs fell on and damaged a house and car. A man in Hillsboro was treated for burns at a local hospital from a lightning strike.

Montgomery County
5 NW Nokomis 09 1750CST 0 0 Thunderstorm Wind (G55)

The County Sheriff reported 1 square mile of corn flattened by thunderstorm wind gusts.

Montgomery County
1 W Coffeen 09 1755CST 0 0 Thunderstorm Wind (G55)

The County Sheriff reported trees down blocking Highway 185.

Montgomery County
Fillmore 09 1800CST 0 0 Thunderstorm Wind (G55)

The County Sheriff reported trees and power lines down in Fillmore.

Fayette County
2 S Ramsey 09 1820CST 0 0 Thunderstorm Wind (G55)

The County Sheriff reported trees down partially blocking Highway 51.

Fayette County
St Elmo 09 1840CST 0 0 Thunderstorm Wind (G55)

The County Sheriff reported power lines down.

Adams County
Payson 22 1600CST 0 0 Thunderstorm Wind (G52)

Storm spotters reported a couple of large trees down in Payson.

Pike County
Barry 22 1640CST 0 0 Thunderstorm Wind (G55)

Pike County
New Canton 22 1645CST 0 0 Thunderstorm Wind (G55)

Pike County
Perry 22 1650CST 0 0 Thunderstorm Wind (G55)

The County Sheriff reported trees and power lines down in Barry, New Canton, and Perry.

Madison County
Godfrey 22 1805CST 0 0 Thunderstorm Wind (G52)

Amateur radio spotters reported some trees and power lines down.

St. Clair County
Fairview Hgts 22 1905CST 0 0 Thunderstorm Wind (G55)

St. Clair County
O Fallon 22 1915CST 0 0 Thunderstorm Wind (G55)

St. Clair County
Mascoutah 22 1925CST 0 0 Thunderstorm Wind (G55)

Amateur radio spotters reported trees and power lines down in Fairview Heights, O’Fallon and Mascoutah.

St. Clair County
Cahokia 22 1920CST 0 0 30K Lightning

A lighting strike started a fire which destroyed a double wide mobile home in Cahokia. The woman resident along with her 3 dogs and 2 cats escaped without injury.
## Storm Data and Unusual Weather Phenomena

### July 2002

#### ILLINOIS, Southwest

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinton County</td>
<td></td>
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</tr>
<tr>
<td>Trenton</td>
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<td>Thunderstorm Wind (G55)</td>
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<tr>
<td>Clinton County</td>
<td></td>
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</tr>
<tr>
<td>Aviston</td>
<td>22</td>
<td>Thunderstorm Wind (G55)</td>
</tr>
<tr>
<td>Storm spotters reported several trees and power lines down in Trenton and Aviston.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Washington County</td>
<td></td>
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</tr>
<tr>
<td>Okawville</td>
<td>22</td>
<td>Thunderstorm Wind (G55)</td>
</tr>
<tr>
<td>The County Sheriff reported several trees and power lines down.</td>
<td></td>
<td></td>
</tr>
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</table>

**ILZ058>060-064>065-069>070-074>079>098>102**


<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Character of Storm</th>
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<tr>
<td>Greene - Macoupin</td>
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<td>Excessive Heat</td>
</tr>
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<td>003CST</td>
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<tr>
<td>2300CST</td>
<td>200CST</td>
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</tr>
<tr>
<td>Greene - Macoupin</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td>High temperatures climbed into the middle to upper 90's with the Heat Indices from 105 to near 115 degrees. There was a one day break in the heat as a weak cold front dropped temperatures back into the upper 80's on July 29. However temperatures quickly rebounded and remained high into August.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### INDIANA, Central

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Henry County</td>
<td>09</td>
<td>Tornado (F0)</td>
</tr>
<tr>
<td>2 SW New Castle to 2 S New Castle</td>
<td>1805EST</td>
<td>2.1 100 0 0 30K</td>
</tr>
<tr>
<td>National Weather Service survey confirmed an F0 touchdown. Minor damage to 3 homes. Trees down.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Delaware County</td>
<td>09</td>
<td>Hail (1.00)</td>
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<tr>
<td>Muncie</td>
<td>1822EST</td>
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</tr>
<tr>
<td>Randolph County</td>
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<td>Thunderstorm Wind (G50)</td>
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<td>Modoc</td>
<td>1840EST</td>
<td>0 0</td>
</tr>
<tr>
<td>Jackson County</td>
<td>09</td>
<td>Thunderstorm Wind (G50)</td>
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<tr>
<td>Seymour</td>
<td>1850EST</td>
<td>0 0</td>
</tr>
<tr>
<td>Delaware County</td>
<td>09</td>
<td>Urban/Sml Stream Fld</td>
</tr>
<tr>
<td>Muncie</td>
<td>1855EST</td>
<td>0 0</td>
</tr>
<tr>
<td>1930EST</td>
<td>0018EST</td>
<td>0 0</td>
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<tr>
<td>Greene County</td>
<td>09</td>
<td>Lightning</td>
</tr>
<tr>
<td>Linton</td>
<td>1935EST</td>
<td>0 0 3K</td>
</tr>
<tr>
<td>Trees down in Randolph and Jackson counties. Hail and urban flooding in Muncie.</td>
<td></td>
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<tr>
<td>Clay County</td>
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</tr>
<tr>
<td>Brazil</td>
<td>18</td>
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</tr>
<tr>
<td>1600EST</td>
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<td>0 0</td>
</tr>
<tr>
<td>Trees down. Gas station sign fell on vehicle.</td>
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<tr>
<td>Vigo County</td>
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<td>Haley</td>
<td>18</td>
<td>Lightning</td>
</tr>
<tr>
<td>1720EST</td>
<td>000EST</td>
<td>0 0</td>
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<tr>
<td>Lightning struck a funeral home and caused extensive damage.</td>
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<tr>
<td>Hancock County</td>
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<tr>
<td>Greenfield</td>
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<tr>
<td>1509EST</td>
<td>000EST</td>
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</tr>
<tr>
<td>1640EST</td>
<td>0018EST</td>
<td>0 0</td>
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<tr>
<td>4.23 inches of rain fell across Greenfield. Many streets were closed and traffic rerouted by Greenfield Police. A roof also collapsed on a building due to the heavy rainfall.</td>
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<tr>
<td>Sullivan County</td>
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<tr>
<td>Sullivan</td>
<td>22</td>
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<td>Lawrence County</td>
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<td>Popcorn</td>
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<td>Owen County</td>
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<tr>
<td>Spencer</td>
<td>22</td>
<td>Thunderstorm Wind (G50)</td>
</tr>
<tr>
<td>Trees and power lines down.</td>
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</table>
## Storm Data and Unusual Weather Phenomena

### INDIANA, 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 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>Warren County</td>
<td>22-23</td>
<td>2300EST 0030EST</td>
<td>N Williamsport</td>
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<tr>
<td>Fountain County</td>
<td>22-23</td>
<td>2330EST 0030EST</td>
<td>S Attica</td>
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<td>0</td>
<td>2K</td>
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<td>2 N Noblesville</td>
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</table>

High water was reported on state 28 near Williamsport and U.S. 41 near Attica. Doppler radar estimated between 4 and 5 inches of rain fell in less than 3 hours.
A squall-line moved across central Indiana during the afternoon of July 29th. 3 separate bowing segments caused widespread damage with trees and power lines down across much of the area. A home in construction collapsed near Fishers, trees fell on houses in Lebanon and Muncie, and a roof was blown off of an airplane hanger at the Delaware County Airport.

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<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
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<td>Thunderstorm Wind (G50)</td>
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</tbody>
</table>

A squall-line moved across central Indiana during the afternoon of July 29th. 3 separate bowing segments caused widespread damage with trees and power lines down across much of the area. A home in construction collapsed near Fishers, trees fell on houses in Lebanon and Muncie, and a roof was blown off of an airplane hanger at the Delaware County Airport.

### INDIANA, Northeast

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<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
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<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grant County</td>
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<tr>
<td>Jonesboro</td>
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<td></td>
<td></td>
<td></td>
<td>Newspaper report of trees and power lines down in Jonesboro.</td>
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<tr>
<td>La Porte County</td>
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<tr>
<td>La Porte</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Law enforcement reported power lines down in La Porte.</td>
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<tr>
<td>6 N La Porte</td>
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<td></td>
<td></td>
<td></td>
<td>Law enforcement reported large trees down north of La Porte.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

95
INDIANA, Northeast

Steuben County
6 W Fremont
22 1650EST
Trained spotter reported large trees down west of Fremont near Pleasant Lake. One of the trees was blown down on a home with minor damage.

Fulton County
Akron
22 1730EST
Emergency management reported trees down in Akron.

Cass County
Onward
22 1752EST
Emergency management reported trees down and minor roof damage to houses in Onward.

Miami County
2 N Peru
22 1755EST
Sheriff reported trees down north of Peru.

Miami County
Bunker Hill
22 1817EST
Emergency management reported tress down in Bunker Hill.

Adams County
4 ESE Berne
22 2000EST
Emergency management reported power lines down southeast of Berne.

Grant County
4 SE Marion
26 1240EST
Law enforcement reported large tree limbs down southeast of Marion.

Blackford County
7 ESE Hartford City
26 1250EST
Law enforcement reported power lines down southeast of Hartford City.

St. Joseph County
3 S South Bend
26 1545EST
Newspaper report of trees down south of South Bend.

Fulton County
Rochester
29 1330EST
Law enforcement reported trees down in Rochester.

Wabash County
Treaty
29 1405EST
Local utility reported trees on power lines causing power outages in and around the Treaty area.

Kosciusko County
1 N Pierceton
29 1415EST
Local utility reported trees and power lines down north of Pierceton.

Whitley County
1 W Columbia City
29 1428EST
HAM radio operator reported trees and power lines down west of Columbia City.

Fulton County
Countywide
29 1430EST 1440EST
Law enforcement reported trees down countywide.

Allen County
2 NE Aboite
29 1440EST
Law enforcement reported power lines down near Aboite township.

Allen County
Poe
29 1510EST
Law enforcement reported trees down on power lines in Poe.

Jay County
Dunkirk
29 1830EST
Law enforcement reported trees down on power lines in Poe.
INDIANA, Northeast

Newspaper report and photo of large trees down in Dunkirk.

Huntington County

Markle 29 1938EST 0 0 80K Lightning
Lightning struck a home causing a fire that destroyed half of the roof. Major smoke and water damage occurred to the remainder of the dwelling.

INDIANA, Northwest

Porter County

4 N Wheeler 22 1350CST 0 0 Thunderstorm Wind (G50)
Trees and power lines were blown down in Portage in Porter county, 4 miles north of Wheeler.

INDIANA, South Central

Crawford County

Countywide 09 2115EST 0 0 Thunderstorm Wind (G50)
Trees were blown down.

Harrison County

Corydon 29 1850EST 0 0 Thunderstorm Wind (G50)

Floyd County

Countywide 29 1910EST 0 0 Thunderstorm Wind (G50)

Clark County

Clarksville 29 1940EST 0 0 Thunderstorm Wind (G50)
Trees and power lines were downed by thunderstorm winds across South Central Indiana.

INDIANA, Southeast

Wayne County

4 E Centerville 27 0600EST 0 0 3K Thunderstorm Wind (G50)
Two trees were blown down.

Wayne County

Countywide 29 1600EST 0 0 5K Thunderstorm Wind (G51)
Trees were blown down.

Franklin County

Brookville 29 1655EST 0 0 10K Thunderstorm Wind (G55)
Trees were blown down. A boat was capsized on Brookville Lake.

Ripley County

Batesville 29 1700EST 0 0 6K Thunderstorm Wind (G50)
Trees were blown down in the northern part of the city.

Union County

Countywide 29 1710EST 0 0 6K Thunderstorm Wind (G52)
Trees were knocked down.

Dearborn County

Countywide 29 1715EST 0 0 4K Thunderstorm Wind (G50)
A few trees were blown down across the county.

Ohio County

Rising Sun 29 1730EST 0 0 5K Thunderstorm Wind (G50)
A few trees were blown down.
INDIANA, Southeast

Spencer County
2.5 SE Dale to 2 NW Dale
09 2000CST
A thunderstorm microburst, containing winds estimated near 90 MPH, destroyed a two-story barn just off Highway 245 between Dale and Santa Claus. Three cattle were killed and 11 others injured. About five miles to the northwest, another barn was reportedly destroyed.

Warrick County
Newburgh
29 1700CST
Several trees and limbs were blown down near Newburgh.

Spencer County
Fulda
29 1730CST
Several trees were blown down over eastern portions of the county.

IOWA, Central

Poweshiek County
Montezuma
05 1852CST
A very unstable airmass was in place over Iowa as deep moisture was in place under an upper level sub-tropical ridge of high pressure. During the late afternoon and early evening hours thunderstorms developed over Iowa. The storms were basically tropical in nature, producing mainly heavy rainfall. One of the storms became severe over Poweshiek County as it produced a downburst over the town of Montezuma.

Mahaska County
4 ENE New Sharon
06 1245CST
Thunderstorm Wind (G56)

Polk County
2 SE Altoona
06 1315CST
Hail(1.00)

Polk County
2 SE Altoona
06 1315CST
Thunderstorm Wind (G50)

Polk County
2 SE Altoona
06 1315CST
Thunderstorm Wind (G52)

Madison County
2 S Winterset
06 1430CST
Thunderstorm Wind (G56)

The weather pattern was very similar to the previous day. Temperatures were close to 90 F. by early afternoon with surface dew point temperatures in the low to mid 70s. Thunderstorms developed in the weak flow environment rapidly. Though the initial storms were not severe and were heavy rain producers, numerous outflow boundaries resulted from the storms. A few of the storms became severe along the outflow boundaries of pre existing storms. Wind and hail damage occurred in Polk County southeast of Altoona from one of these storms. The downburst winds damaged crops, trees, and downed power lines. Another storm produced a strong downburst south of Winterset in Madison county. Several small trees were damaged and doors were ripped off of sheds and several grain bins were thrown. Downburst winds in Mahaska County caused a 6 miles stretch of damage along U.S. Highway 63 east of New Sharon. Numerous large branches were downed, crops were flattened, and a few large trees were downed. The width of the damage path ranged from a few tens of meters to nearly a kilometer wide.

Crawford County
10 W Schleswig
10 0500CST
Thunderstorm Wind (G69)

Crawford County
3 N Schleswig
10 0515CST
Thunderstorm Wind (G69)

Crawford County
Denison
10 0518CST
Thunderstorm Wind (G52)

Crawford County
Vail
10 0520CST
Thunderstorm Wind (G56)
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<tr>
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<tr>
<td>Carroll County</td>
<td>0540CST</td>
<td>10 0540CST 0545CST</td>
<td>0 0 1.5M 1M</td>
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<tr>
<td>3.5 NW Carroll to 2 N Carroll</td>
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The air mass over Iowa was quite unstable during the predawn hours of the 10th with surface dew points in the 70s. In spite of the fact that a weak cold front had passed through the state, little drying of the atmosphere took place. An unseasonably strong upper level closed low pressure system moved southeast across North Dakota into west central Minnesota during the morning hours of the 10th. Several lines of thunderstorms formed over southeast South Dakota into northwest Iowa and moved southeast from there. The storms produced very heavy rainfall during the initial round of storms along with winds of 40 to 50 MPH. The thunderstorms formed into a well developed MCS by dawn with the second round of storms forming into a bow echo. Very high winds pushed from west central into central and parts of south central Iowa as the bow echo pushed southeast. Numerous reports of 60 to 70 MPH winds were received. Carroll County was especially hard hit with a 96 MPH wind gust recorded in Glidden. Carroll and Crawford Counties were the most heavily impacted. There were approximately 140 electrical transmission poles down in about a 4 mile stretch 2 miles north of Carroll and to the west. The loss of these lines disrupted large portions of western Carroll County, and eastern Crawford County. Newspaper reports received in early August indicated damage to the transmission lines at $1,500,000. The strongest winds, those exceeding 70 MPH, extended into Guthrie County. Winds in the Panora area topped out at 77 MPH. Extensive damage was reported to grain bins. One of the largest was in Guthrie County, where a 300,000 bushel bin was collapsed on one side by the winds. Crop damage in the area was into the millions of dollars. Survey results indicated that nearly 25% of the corn crop in Carroll County was totally flattened. Damage surveys also indicated very extensive crop damage on either side of Carroll County, in Crawford and Guthrie Counties as well as the north half of Audubon County. Governor Vilsack declared Carroll and Crawford Counties disaster areas. Although no injuries were reported, high winds overturned a semi-tractor-trailer truck in Madison County west of Winterset. The bow echo continued to move south-southeast across south central Iowa. The Lorimor area of Union County was hard hit. Tree Limbs and Power Lines down in Lorimor with 3 residences receiving minor damages from tree limbs. Two cars, a pickup, and camper were damaged by tree limbs in Lorimor. In rural Lorimor the top half of a large barn was gone along with the hay stored inside. Steel grain bins were damaged by flying debris and trees, and machinery was damage by sections of the building hay.

An upper level low pressure dropped south out of Minnesota into Iowa during the night. Though the air mass over Iowa was typical of early to mid July, however the upper level low pressure was more typical of the cold season. With abundant moisture in place, rain and embedded thunderstorms developed in bands across the state. Very heavy, nearly tropical, rainfall developed. Six inches of rain fell in just a few hours time over Cerro Gordo County in north central Iowa. In spite of the generally dry conditions recently, flash flooding took place even though not as serious as one would normally expect. Some of the more serious flooding took place south of the Ventura area. A section of road about 100 meters long was washed out in the area by the heavy rain. Other damage around the county was more scattered in nature. Crop damage was somewhat widespread as the heavy rain flattened crops, some of which was beyond recovery. The general rule of thumb is if the corn is leaning more than 30 degrees from true, yield reduction will result. If greater than 45 degrees is is unlikely the farmer would be able to harvest more than silage. The true

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Cerro Gordo County Countywide

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IOWA, Central

Damage won't be known until sometime in mid to late 2003 however.

Ringgold County

6 N Mt Ayr

11 1533CST 0 0 5K Tstm Wind/Hail
An upper level low pressure dropped south across Iowa during the afternoon of the 11th. Thunderstorms developed during the heating of the day as some clearing took place over southwest Iowa. Most of the storms were heavy rain producers, however one storm became quite strong and produced 50 MPH winds and some hail. Three reports of quarter inch diameter hail were received north of Mt. Ayr in Ringgold County for a short time before weakening and slipping southeast into Missouri.

Kossuth County

3 NE Swea City

21 1820CST 0 0 40K 10K Thunderstorm Wind (G61)

Kossuth County

4 E Bancroft

21 1830CST 0 0 3K 5K Hail(0.88)
A very unstable airmass was in place over Iowa during the afternoon of the 21st. Temperatures by mid afternoon soared into the 90s to low 100s with dew point temperatures in the mid 70s to mid 80s. The airmass was capped with 700 mb temperatures in the 11 to 13 C. range. In spite of CAPE values in the 7000 J/kg range, thunderstorms had a difficult time forming. During the early evening thunderstorms did form along a cold front moving into the state. A few of them became severe, but for the most part the storms were not able to become well organized. In Kossuth County, high winds blew down a grain bin northeast of Swea City, while nickel size hail fell east of Bancroft. Many of the storms did product gusty winds. Some minor wind damage was reported in Sac City in Sac County, however the winds were below severe levels. About 3 hours after the storms passed through, gusty winds occurred as the tops collapsed in Hancock County. Branches were broken in Britt and one garage was destroyed as a large branch fell on it.

Taylor County

5 W Bedford

26 2000CST 0 0 10K 10K Hail(1.75)

Taylor County

6 S New Market

26 2000CST 0 0 5K 5K Hail(1.00)

Taylor County

2 S New Market

26 2000CST 0 0 10K 10K Hail(1.75)

Taylor County

8 W Bedford

26 2007CST 0 0 5K 10K Hail(1.00)

Taylor County

4 S New Market

26 2007CST 0 0 5K 10K Hail(1.00)

Taylor County

Bedford

26 2020CST 0 0 25K 10K Hail(1.75)

Taylor County

Bedford

26 2020CST 0 0 5K 5K Hail(1.00)

Taylor County

5 SE New Market to 2 E Bedford

26 2029CST 2053CST 7 60 0 0 10K 5K Tornado (F1)
Touched down in open country with intermittent track. Did some damage to a house east of Bedford.
A strong warm front was located across northern Kansas into northern Missouri. The airmass was quite unstable with dew point temperatures well into the 70s. Temperatures were in the 100 to 110 degree range south of the front, while to the north of it readings were only in the 80s. Thunderstorms fired by the early evening hours just to the north of the front. Within a few hours a fairly large MCS had formed over Iowa. Most of the thunderstorms were not severe, only producing brief gusty winds, small hail, and heavy rainfall. One cell became a supercell over southwest Iowa. Golf ball size hail fell in Taylor County. During the peak intensity of the storm a tornado touched down southeast of New Market and had an intermittent track to about 2 miles east of Bedford. For the most part the tornado tracked through open country causing only minor damage. One farmstead was damaged by the tornado east of Bedford.

Palo Alto County

Graettinger

28 1720CST 0 0 5K Hail(0.75)

Emmet County

2 W Wallingford

28 1800CST 0 0 2K 5K Hail(0.88)

Emmet County

4 SE Wallingford

28 1815CST 0 0 5K Hail(0.75)
A very unstable airmass was in place over Iowa during the afternoon of the 28th. Surface temperatures were generally in the upper 80s to mid 90s, with dew point temperatures in the 70s to low 80s. By late afternoon, CAPE values were between 4000 and 6000 J/kg with lifted indices below -10 C. Temperatures aloft were quite warm with 700 mb temperatures around +11 C. This tended to cap convection through the day. A strong MCS tracked across southern Minnesota during the afternoon. The outflow boundary from this system dropped into northwest Iowa during the early evening. Thunderstorms formed along the boundary and produced hail of three quarters of an inch to one inch in diameter during the initiation stage. The severe weather tapered off after a couple hours. Meanwhile, an area of thunderstorms lifted north out of Missouri. By early evening the intensified as they moved into the more unstable air over Iowa. They became severe for a brief period of time and produced winds of up to 70 MPH, along with one and one quarter inch diameter hail in central Iowa from Warren County, into Marion and Jasper Counties. The storms weakened after that time. A cold front moved across the state during the night, kicking off additional thunderstorms. These storms remained below severe limits.

**IOWA, East Central and Southeast**

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## Storm Data and Unusual Weather Phenomena

### July 2002

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According to some, many areas in Tipton resembled a war zone. Damaging winds of 70 mph knocked down or severely damaged more than 50 trees causing thousands of dollars in damage. Some city blocks lost 2 or 3 large trees, and there was damage to several homes. Also, trees fell on at least 4 vehicles and power was knocked out in some areas. Several streets including Highway 38 were blocked by downed trees. While damage was widespread, areas along 4th and 5th Streets were hit hardest. Some nuisance flooding was also reported around 5th and Plum Streets and Cedar and 10th Streets.

Numerous trees down in Mount Vernon and Palisades Kepler State Park. Downed trees on power lines produced power outages in Mount Vernon.

Trees blown down.

Trees and power lines blown down.

Several trees blown down.

Power lines, trees and limbs blown down. About 30 houses suffered either minor or major damage.

Yankee River overflowed its banks flooding some pasture.

Roadside park flooded.

Several secondary roads covered with high water north of Highway 30.

Nearly 20 homes had water in the basement. Rainfall totals ranged from 3 to 6 inches.

Walnut Creek overflowed its banks.

Sible Creek overflowed its banks.

Little Bear Creek overflowed its banks and flooded portions of town. Rainfall amounts of 5 to 6 inches were reported in Martelle and from Olin to Wyoming.

Hail(1.75)
IOWA, East Central and Southeast

Scott County
Davenport
Hail(0.75) 0027Davenport 0259CST
Small stream out of it's banks.

Scott County
Parkview
0027Parkview 0405CST
Urban/Sml Stream Fld
Water over the wheels of a pickup truck at the intersection of Bridge and Locust Streets. Also, water over road on East 39th Street, where vehicle was stalled.

Scott County
Davenport
0027Davenport 0410CST
Duck Creek overflowed its banks and covered the bike path at Brady Street and also at Kimberly Road. Rainfall totals from gages along Duck Creek since midnight ranged from 2.17 inches at County Shed to 3.78 inches at Goose Creek, with 3.31 inches at both Silver Creek and Brady Street.

Scott County
Davenport
0028Davenport 0619CST
Several 6 to 12 inch diameter tree limbs blown down.

Louisa County
Columbus Jct
28 2009CST
Several 6 to 12 inch diameter tree limbs blown down.

Linn County
Marion
28 2107CST
Hail(0.88)

Jones County
Anamosa
28 2112CST
Large tree blown down on power lines.

Cedar County
Tipton
28 2115CST
A large tree was blown down on a home on West 7th Street.

Linn County
Cedar Rapids
28 2120CST
Thunderstorm Wind (G52)
Power poles and lines blown down. One power pole landed on an unoccupied vehicle on the southeast side of the city.

Linn County
Ely
28 2120CST
Thunderstorm Wind (G52)
Power lines blown down.

Linn County
Marion
28 2120CST
Thunderstorm Wind (G52)
Power lines and poles blown down. 3,500 homes in Cedar Rapids and Marion lost power.

Jackson County
Maquoketa
28 2200CST
Thunderstorm Wind (G61)
A large tree limb was blown down, damaging the roof of a home on West Maple Street. Also, tree limbs knocked down several power lines resulting in scattered power outages.

Linn County
Cedar Rapids
29 0300CST
Thunderstorm Wind (G52)
Another round of high winds knocked down more power lines and poles forcing the closure of Highway 151, and leaving another 3,500 homes and businesses without power.

IOWA, Northeast

Mitchell County
Mitchell
18 2145CST
Thunderstorm Wind (G52)
Hail(2.00)

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**Estimated wind gusts of 65 mph damaged a farm near Cresco (Howard County), snapped off and blew down several trees near Waterville (Allamakee County) and damaged corn fields near Decorah (Winneshiek County).**

**Straight-line winds estimated at 65 to 70 mph caused a farm shed to collapse, knocked down power poles and trees, as well as caused widespread damage to crops.**

**Thunderstorm winds blew down numerous trees, some large. The winds also blew down power lines.**

**Thunderstorm winds combined with heavy rain to cause severe crop damage. The amount of crop damage was not known.**

**Thunderstorm winds and heavy rain caused widespread crop damage over the southern part of Ida county. The amount of crop damage was not known.**

**Thunderstorm winds tore off branches and smaller tree debris.**

**Large hail damaged vehicles. The amount of damage was not known.**

**Hail (1.75)**

**Hail (0.88)**

**Hail (0.95)**

**Hail (0.75)**
## Storm Data and Unusual Weather Phenomena

### IOWA, Northwest

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**July 2002**
# Storm Data and Unusual Weather Phenomena

## Iowa, Northwest

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<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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Thunderstorm winds caused widespread tree and power line damage, with power lines blocking at least one road, and resulting power outages. The winds destroyed a shelter, garage, and outbuilding about halfway between Moville and Anthon.

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## Iowa, Southwest

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An apparent microburst caused extensive wind in Minden. Three foot diameter trees were uprooted, power lines were downed and sporadic damage to siding was done to a few houses.

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Thunderstorm wind gusts downed trees and power lines in Sidney.

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IOWA, Southwest

Page County
- 2 SE Coin: 25 0605 CST, Hail (0.75)
- 1 S Shenandoah: 26 1914 CST, Hail (1.75)
- Fremont County: 26 1920 CST, Hail (0.88)
- 5 W Clarinda: 26 1933 CST, Hail (1.75)
- 4 NE Farragut: 26 1941 CST, Hail (1.00)
- Clarinda: 26 1946 CST, Hail (1.00)

A ham radio operator reported thunderstorm wind gusts of around 65 mph. A tornado damaged 5 or so farmsteads and downed quite a few trees south of Clarinda. A semi was also blown off the road in that area. Damage included windows blown out, roofs ripped off of outbuildings, tractor-trailers flipped and trees stripped bare.

KANSAS, East


Dry weather and hot temperatures produced crop damage in various parts of Clay county. July 2002 was one of the hotter and drier months on record for northeast Kansas. Monthly temperatures averaged well above normal over the whole area with many days of high temperatures above 95 degrees and quite a few over 100 degrees. Precipitation was well below normal over the area although not the driest of record.

<table>
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Strong winds downed power poles south of Emporia.
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</table>
### Storm Data and Unusual Weather Phenomena

**Location**

**Time/Standard**

**Path Length (Miles)**

**Path Width (Yards)**

**Number of Persons Killed**

**Number of Persons Injured**

**Estimated Property Damage**

**Character of Storm**

---

**Jackson County**

- **8 NW Hoyt**: 25 1910CST, 0 0, Hail(1.00)

**Washington County**

- **Haddam**: 26 1705CST, 0 0, Thunderstorm Wind (G52)

**Republic County**

- **Belleville**: 26 1710CST, 0 0, Thunderstorm Wind (G57)

**Republic County**

- **3 E Belleville**: 26 1720CST, 0 0, Thunderstorm Wind (G52)

**Pottawatomie County**

- **1 E Emmett**: 27 1415CST, 0 0, Hail(0.88)

**Jackson County**

- **6 N Delia**: 27 1430CST, 0 0, Hail(0.88)

**Jackson County**

- **5 N Delia**: 27 1430CST, 0 0, Thunderstorm Wind (G61)

**Riley County**

- **Manhattan**: 27 1959CST, 0 0 0.45K, Lightning

  Lightning struck a home in Manhattan and ignited a fire that did minor damage.

**Pottawatomie County**

- **1 NE Wamego**: 27 2017CST, 0 0, Thunderstorm Wind (G61)

**Pottawatomie County**

- **Belvue**: 27 2023CST, 0 0, Thunderstorm Wind (G62)

**Pottawatomie County**

- **Louisville**: 27 2030CST, 0 0, Hail(1.25)

**Jackson County**

- **9 N Delia**: 27 2044CST, 0 0, Thunderstorm Wind (G52)

**Jackson County**

- **5 N Delia**: 27 2050CST, 0 0, Hail(0.75)

**Riley County**

- **Manhattan**: 27 2127CST, 0 1, Lightning

  Light struck a trailer in Manhattan and injured a woman touching the trailer.

**Riley County**

- **Manhattan**: 27 2138CST, 0 0 10K, Lightning

  Lightning struck the roof of a restaurant and ignited a fire that did serious damage.

**Ottawa County**

- **3 N Tescott**: 27 2155CST, 0 0, Hail(0.75)

**Ottawa County**

- **8 E Tescott**: 27 2222CST, 0 0 2K, Thunderstorm Wind (G61)

  Strong winds blew down power lines east of Tescott.

**Ottawa County**

- **3 N Bennington**: 27 2240CST, 0 0, Thunderstorm Wind (G52)

**Cloud County**

- **Jamestown**: 27 2245CST, 0 0, Hail(1.75)

**Cloud County**

- **Jamestown**: 27 2245CST, 0 0 4K, Thunderstorm Wind (G61)

  Strong winds knocked street lights off poles.

**Ottawa County**

- **Tescott**: 27 2255CST, 0 0 2K, Thunderstorm Wind (G61)

  Strong winds knocked down power lines.
## Storm Data and Unusual Weather Phenomena

**July 2002**

### KANSAS, East

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**Note:**

- Strong winds broke some windows north of Topeka.
- Heavy rains caused rapid runoff that flooded some businesses between Ogden and Manhattan.
- Thunderstorms developed over north central and northeast Kansas during the mid afternoon hours of the 27th and continued into the early morning hours of the 28th. Some of the storms became severe and produced numerous reports of large hail and damaging winds. Lightning struck several locations doing considerable damage. There was also one report of flash flooding.
- Some of the thunderstorms became severe and produced numerous reports of strong winds and one large hail event.
# Storm Data and Unusual Weather Phenomena

## KANSAS, Extreme Southeast

NONE REPORTED.

## KANSAS, North Central

**Jewell County**

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<th>Path Width (Yards)</th>
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<th>Number of Persons Injured</th>
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<th>Damage to Crops</th>
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Wind driven hail broke windows at a farm north of Esbon. A swath of extensive crop damage was reported from 7 miles northwest of Esbon to 4 miles northeast of Esbon. The crops 6 miles north of town were completely wiped out.

## KANSAS, Northeast

**Miami County**

- **Somerset**
  - Date: 18
  - Time: 1525CST
  - Path Length: 0
  - Path Width: 0
  - Damage: Thunderstorm Wind (G52)

- **3 E Somerset**
  - Date: 18
  - Time: 1535CST
  - Path Length: 0
  - Path Width: 0
  - Damage: Hail (0.75)

**Johnson County**

- **Overland Park**
  - Date: 19
  - Time: 1545CST
  - Path Length: 0
  - Path Width: 0
  - Damage: Hail (1.25)

## KANSAS, Northwest

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<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
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<th>Damage to Property</th>
<th>Damage to Crops</th>
<th>Character of Storm</th>
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Drought conditions worsened from extreme to exceptional during the month of July across northwest Kansas. Hot temperatures and much below normal rainfall during the month continued to stress crops and livestock in the area.

**Sheridan County**

- **8 SE Tasco**
  - Date: 21
  - Time: 1545MST
  - Path Length: 0
  - Path Width: 0
  - Damage: Thunderstorm Wind (G65)
  - Quanis hut pushed off foundation.

**Norton County**

- **Norton**
  - Date: 21
  - Time: 1622MST
  - Path Length: 0
  - Path Width: 0
  - Damage: Thunderstorm Wind (G60)
  - House roof damaged. Debris from roof broke windows in nearby building.

**Decatur County**

- **11 NW Oberlin**
  - Date: 21
  - Time: 1703MST
  - Path Length: 0
  - Path Width: 0
  - Damage: Hail (1.00)

- **11 NW Oberlin**
  - Date: 21
  - Time: 1703MST
  - Path Length: 0
  - Path Width: 0
  - Damage: Thunderstorm Wind (G55)
  - Large tree blown over by thunderstorm winds.

**Rawlins County**

- **Herndon**
  - Date: 21
  - Time: 1710MST
  - Path Length: 0
  - Path Width: 0
  - Damage: Thunderstorm Wind (G50)

- **Herndon**
  - Date: 21
  - Time: 1710MST
  - Path Length: 0
  - Path Width: 0
  - Damage: Thunderstorm Wind (G50)

Numerous 4-inch diameter tree limbs down.

Several strong, slow-moving thunderstorms developed over Decatur and Rawlins counties in northwest Kansas and moved northward into southern Nebraska. Several reports of urban and lowland flooding were reported for a short time due to rapid runoff, in addition to strong, damaging winds and small hail.
### Storm Data and Unusual Weather Phenomena

July 2002

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### Storm Data and Unusual Weather Phenomena

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Storm Data and Unusual Weather Phenomena

July 2002

KANSAS, Southeast

Marion County
Lincolnville 28 1825CST 0 0 Thunderstorm Wind (G52)
Mcpherson County
5 N Mc Pherson 28 1828CST 0 0 Thunderstorm Wind (G61)
Kingman County
2 E Cunningham 28 1842CST 0 0 Thunderstorm Wind (G52)
Harper County
Waldron 28 2010CST 0 0 Thunderstorm Wind (G52)
Sedgwick County
2 E Viola 28 2015CST 0 0 50K Thunderstorm Wind (G61)

Sumner County
13 S Oxford 28 2126CST 0 0 10K Thunderstorm Wind (G61)

Unspecified number of sheds blown away. Trees downed.

Labette County
2 SW Mound Vly to 1 S Valeta 28 2200CST 0 0 25K Thunderstorm Wind (G52)

Two power poles snapped and three trees fell onto power lines severing power to just over 400 residences of which about 300 were in Mound Valley.

KANSAS, Southwest

Stafford County
Radium 10 1645CST 0 0 Hail(1.00)
Pawnee County
4 SE Larned 10 1705CST 0 0 Hail(0.88)
Pawnee County
5 SE Larned 10 1718CST 0 0 Hail(0.75)
Pawnee County
5 SE Larned 10 1718CST 0 0 Thunderstorm Wind (G52)
Ford County
9 NW Dodge City 10 1815CST 0 0 7.5K Thunderstorm Wind
Seven power poles blown down in this microburst. In addition, 25 pieces of sheet metal were blown off a shed.

Ford County
2 SW Dodge City 10 1835CST 0 0 1K Thunderstorm Wind
A roof was blown off a shed.

Seward County
5 E Liberal 10 2149CST 0.3 25 0 0 0 Tornado (F0)
A brief tornado occurred in an open pasture.

Finney County
Garden City 11 0215CST 0 0 Hail(0.88)
Finney County
(Gck)Garden City Arpt 21 1710CST 0 0 Thunderstorm Wind (G50)
Trego County
2 SSE Cedar Bluff Res 21 1943CST 0 0 Thunderstorm Wind (G52)
Morton County
5 N Elkhart 27 1630CST 0 0 Hail(0.75)
Ness County
3 NW Brownell 27 1922CST 0 0 Hail(1.75)
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<td>Hail(0.75)</td>
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</table>

- Pawnee County: Four inch diameter tree limbs were blown down.
- Ellis County: Hail of unknown size also fell at this location, which broke out windows.
- Ellis County: A power pole was blown down which started a small fire in the back yard.
- Ness County: A few small trees were uprooted.
### Storm Data and Unusual Weather Phenomena

#### July 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</th>
<th>Character of Storm</th>
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<td>Water covered part of the Highway 1927 Bypass.</td>
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<td>Slow moving thunderstorms produced heavy rains over South Central Kentucky. Numerous roads around Bowling Green and Warren County were covered with water. Law enforcement.</td>
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<td>One tree was also blown down.</td>
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KENTUCKY, Central

Allen County
Scottsville 03 2015EST 0 0 Thunderstorm Wind (G50)
Several large tree branches were blown down.

Allen County
Scottsville 10 1315EST 0 0 Thunderstorm Wind (G50)

Barren County
Countywide 10 1315EST 0 0 Thunderstorm Wind (G50)

Logan County
Russellville 10 1315EST 0 0 Thunderstorm Wind (G50)

Clinton County
Countywide 10 1330EST 0 0 Thunderstorm Wind (G50)

Simpson County
Franklin 10 1350EST 0 0 Thunderstorm Wind (G50)

Allen County
Countywide 10 1400EST 0 0 Thunderstorm Wind (G50)

Fayette County
1 S Lexington 29 1710EST 0 0 Thunderstorm Wind (G50)

Henry County
8 E Campbellsburg 29 1815EST 0 0 Thunderstorm Wind (G50)

Jefferson County
Shively 29 1918EST 0 0 Thunderstorm Wind (G50)

Oldham County
Countywide 29 1940EST 0 0 Thunderstorm Wind (G50)

Shelby County
Countywide 29 1945EST 0 0 Thunderstorm Wind (G50)

Henry County
Eminence 29 2010EST 0 0 Thunderstorm Wind (G50)

Franklin County
4 W Frankfort 29 2030EST 0 0 Thunderstorm Wind (G50)
Power lines and numerous trees were blown down across North Central and East Central Kentucky.

KENTUCKY, Eastern

Pulaski County
Squib 02 1310EST 0 0 0 0 Hail(1.75)

Jackson County
Clover Bottom 02 1510EST 0 0 0 0 Hail(0.75)

Breathitt County
5 NW Jackson 02 1515EST 0 0 0 0 Hail(1.00)

Pike County
Marrowbone 02 1800EST 0 0 0 0 Thunderstorm Wind
One tree was down in the town of Marrowbone and another tree was down in the Blackberry area, also near Marrowbone.

Letcher County
Mc Roberts 02 1800EST 0 0 0 0 Hail(1.75)

Pike County
Dorton 02 1853EST 0 0 500K 0 Flash Flood
KENTUCKY, Eastern

Heavy rains devastated communities in the Dorton and Beefhide areas. The deluge wrecked hollows including Lick Fork of Beefhide, Marshall's Branch, and Blaze Branch, with many residents reporting a sudden wall of water that left shattered roads and destruction in its wake. On Blaze Branch Road, the blacktop was buckled and the road was broken apart in several places. Vehicles and outbuildings were tossed around and destroyed in the flash flood. Although no injuries were reported, residents said that they lost air conditioning units, bridges, and other personal property. Many homes had water damage. People in the Beefhide Creek area were cut off from leaving their property temporarily from the fast rising flood waters where 2 miles of the main road was washed out. Some people were evacuated in the Dorton area where 4 feet of water flowed over some roads.

Floyd County
Weeksbury 02 1900EST 2200EST 0 0 0 0 Flash Flood
Water was across roads along Caleb Road and Skull Fork Road. High water was reported to be in people's yards.

Johnson County
Sitka 02 2000EST 0 0 0 0 Thunderstorm Wind
One tree was down on Kentucky Highway 201.

Letcher County
Jenkins 02 2000EST 2130EST 0 0 0 0 Flash Flood
Several county and city roads were closed due to flash flooding.

Letcher County
Fleming 02 2000EST 2130EST 0 0 200K 0 Flash Flood
Heavy rains sent flood waters raging through the town of Fleming-Neon and some outlying areas. The flash flooding damaged homes, closed businesses, and coated City Hall in mud. The flooding also temporarily closed local roads.

Johnson County
Oil Spgs 02 2015EST 0 0 0 0 Thunderstorm Wind
One tree was down across Kentucky Highway 825.

Floyd County
Ivel 02 2130EST 0 0 0 0 Hail(0.75)
Aside from 0.75 inch hail, 1 inch of rain fell within 20 minutes.

Rockcastle County
Brodhead 02 2230EST 0 0 0 0 Thunderstorm Wind
Trees and power lines were down on Kentucky Highway 150.

Wolfe County
Landsaw to Malaga 05 1400EST 1405EST 0 0 0 0 Thunderstorm Wind
Trees were down along Kentucky Highway 1812 between Landsaw and Malaga. Large branches were also down and blocking Kentucky Highway 1261.

Breathitt County
Juan 05 1415EST 0 0 0 0 Thunderstorm Wind
Several trees were down on Kentucky Highway 30.

Knott County
Mousie 05 1545EST 0 0 0 0 Hail(1.00)

Elliott County
Lytten 09 1635EST 0 0 0 0 Thunderstorm Wind
Trees and tree limbs were down. Also small hail reported and 2.5 inches of rain in one hour.

Pike County
Freeburn to 3 NE Ransom 20 0510EST 0520EST 0 0 0 0 Flash Flood
Flash flooding caused water to flood into homes in the McCarr area. People were stranded in cars from quickly rising water in Freeburn, and roads were washed out at Kentucky Highway 1056 and Kentucky Highway 319.

Magoffin County
Hendricks to 2 W Salyersville 20 0930EST 1100EST 0 0 0 0 Flash Flood
A couple of driveway bridges were washed out along Bear Branch Creek near Kentucky Highway 30 and Kentucky Highway 1090. Also, two feet of water was flowing over Kentucky Highway 30, one mile south of Kentucky Highway 460.
**Storm Data and Unusual Weather Phenomena**

July 2002

**KENTUCKY, Eastern**

Laurel County
London
20 1614EST
0 0 0 0 Hail(0.88)

Laurel County
London
20 1621EST
0 0 0 0 Thunderstorm Wind
One large tree was down on Pearl Street.

Laurel County
London
20 1625EST
0 0 0 0 Hail(0.75)

Laurel County
London
20 1628EST
0 0 10K 0 Thunderstorm Wind
Several trees were down. One large Pine tree was uprooted and a couple of trees fell onto cars.

Laurel County
4 SW London
22 1530EST
0 0 0 0 Thunderstorm Wind
Several trees were down.

Laurel County
6 SE London
22 1532EST
0 0 0 0 Thunderstorm Wind
One large tree was down and blocking Kentucky Highway 229.

Laurel County
5 S London
22 1539EST
0 1 0 0 Lightning
One woman was struck by lightning.

Martin County
1 N Laura
23 1810EST
0 0 0 0 Flash Flood
Water was flowing about 7 to 8 inches deep along Kentucky Highway 1714, which runs along Pigeon Roost Creek.

McCreary County
Countywide
23 1825EST
0 0 0 0 Thunderstorm Wind
Multiple trees were reported down countywide along with several power outages.

**KENTUCKY, Northeast**

NONE REPORTED.

**KENTUCKY, Northern**

Mason County
Mays Lick
22 1650EST
0 0 3K Thunderstorm Wind (G50)
Several trees and limbs were downed.

Boone County
Big Bone
29 1730EST
0 0 1K Thunderstorm Wind (G50)
Large limbs were blown down in Big Bone Lick State Park.

Kenton County
Countywide
29 1815EST
0 0 2K Thunderstorm Wind (G50)
Trees were blown down in Covington, and large limbs were downed in Fort Mitchell. A retaining wall holding up a structure in downtown Covington was blown down.

Campbell County
Dayton
29 1825EST
0 0 8K Thunderstorm Wind (G50)
A few trees were blown down.

Grant County
Crittenden
29 1830EST
0 0 5K Thunderstorm Wind (G50)
Several trees were blown down.

121
KENTUCKY, Northern

Owen County
Monterey

<table>
<thead>
<tr>
<th>Time</th>
<th>Path Length</th>
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<th>Number of Persons</th>
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<td>0</td>
<td>0</td>
<td>4K</td>
<td>Thunderstorm Wind (G50)</td>
</tr>
</tbody>
</table>

Trees were blown down.

Owen County
Perry Park

<table>
<thead>
<tr>
<th>Time</th>
<th>Path Length</th>
<th>Path Width</th>
<th>Number of Persons</th>
<th>Estimated Damage</th>
</tr>
</thead>
<tbody>
<tr>
<td>2030 EST</td>
<td>0</td>
<td>0</td>
<td>4K</td>
<td>Thunderstorm Wind (G50)</td>
</tr>
</tbody>
</table>

A few trees were blown down on State Route 355.

KENTUCKY, Southwest

Todd County
Guthrie to 4 NW Guthrie

<table>
<thead>
<tr>
<th>Time</th>
<th>Path Length</th>
<th>Path Width</th>
<th>Number of Persons</th>
<th>Estimated Damage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1305 CST</td>
<td>0</td>
<td>0</td>
<td>10K</td>
<td>Hail(2.75)</td>
</tr>
</tbody>
</table>

Baseball size hail was reported along Highway 181 about 4 miles northwest of Guthrie. Vehicles were dented. In Guthrie, quarter size hail was reported. The large hail was caused by a severe thunderstorm that drifted slowly north across the Guthrie area from Tennessee.

Mccracken County
5 W (Pah)Barkley Arpt
1 SE (Pah)Barkley Arpt

<table>
<thead>
<tr>
<th>Time</th>
<th>Path Length</th>
<th>Path Width</th>
<th>Number of Persons</th>
<th>Estimated Damage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1116 CST</td>
<td>0</td>
<td>0</td>
<td>25K</td>
<td>Thunderstorm Wind (G61)</td>
</tr>
</tbody>
</table>

A gust to 70 MPH was recorded by ASOS wind equipment at Barkley Regional Airport. Numerous trees and limbs were blown down just west, south, and southeast of the airport. Some of the trees landed on houses, roads, and power lines. An old hangar building at the airport was blown down. A church received minor damage to the roof and steeple.

Mccracken County
Paducah

<table>
<thead>
<tr>
<th>Time</th>
<th>Path Length</th>
<th>Path Width</th>
<th>Number of Persons</th>
<th>Estimated Damage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1125 CST</td>
<td>0</td>
<td>0</td>
<td>5K</td>
<td>Lightning</td>
</tr>
</tbody>
</table>

A shed burned down after a lightning strike.

Todd County
Daysville

<table>
<thead>
<tr>
<th>Time</th>
<th>Path Length</th>
<th>Path Width</th>
<th>Number of Persons</th>
<th>Estimated Damage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1140 CST</td>
<td>0</td>
<td>0</td>
<td>10K</td>
<td>Thunderstorm Wind (G50)</td>
</tr>
</tbody>
</table>

Trees and large limbs were blown down. At least two trees fell on houses near Daysville. A tree fell through a house about a mile south of Daysville.

Graves County
Symsonia

<table>
<thead>
<tr>
<th>Time</th>
<th>Path Length</th>
<th>Path Width</th>
<th>Number of Persons</th>
<th>Estimated Damage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1145 CST</td>
<td>0</td>
<td>0</td>
<td>2K</td>
<td>Thunderstorm Wind (G50)</td>
</tr>
</tbody>
</table>

Several trees were blown down.

Marshall County
6.6 SE Gilbertsville to 7.2 SE Gilbertsville

<table>
<thead>
<tr>
<th>Time</th>
<th>Path Length</th>
<th>Path Width</th>
<th>Number of Persons</th>
<th>Estimated Damage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1150 CST</td>
<td>0.5</td>
<td>10</td>
<td>25K</td>
<td>Tornado (F0)</td>
</tr>
</tbody>
</table>

The Cambridge Shores community, located on the shore of Kentucky Lake about 7 miles southeast of Gilbertsville, received severe damage from a downburst with estimated winds to 100 MPH. The core of the damage path was about 1.5 miles long and 1/4 mile wide. Numerous witnesses reported seeing a weak tornado embedded in the downburst. Estimated peak winds in this small tornado were 70 MPH. The bulk of the damage and both injuries were incurred by the downburst. At least a dozen boat docks were destroyed, and six boats were destroyed or capsized, including a houseboat. At least a dozen homes received significant damage, such as roofs blown off and trees landing on houses. Numerous trees were blown down. Two persons received minor injuries when their 48-foot houseboat capsized.

Marshall County
3 NW Palma to Tatumsville

<table>
<thead>
<tr>
<th>Time</th>
<th>Path Length</th>
<th>Path Width</th>
<th>Number of Persons</th>
<th>Estimated Damage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1152 CST</td>
<td>0</td>
<td>0</td>
<td>20K</td>
<td>Thunderstorm Wind (G55)</td>
</tr>
</tbody>
</table>

Trees were blown down at Possum Trot. Near Tatumsville, roofs were blown off homes, and numerous trees and power lines were down.

Carlisle County
5 SSW Bardwell to 3 NE Bardwell

<table>
<thead>
<tr>
<th>Time</th>
<th>Path Length</th>
<th>Path Width</th>
<th>Number of Persons</th>
<th>Estimated Damage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1235 CST</td>
<td>0</td>
<td>0</td>
<td>15K</td>
<td>Thunderstorm Wind (G58)</td>
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</tbody>
</table>

Winds gusted to 67 MPH in Bardwell. About 100 trees were blown down in southwest Carlisle County, especially near Highway 1591. At least one of the trees fell through a house. Power lines were blown down on Highway 1371 about 3 miles northeast of Bardwell.
KENTUCKY, Southwest

Trigg County
Cadiz 10 1252CST 0 0 3K Thunderstorm Wind (G50)
Trees were down on the west side of Cadiz.

Christian County
1 W Hopkinsville 10 1258CST 0 0 Thunderstorm Wind (G50)
At least a half dozen large trees were blown down along Highway 272.

Hickman County
3 S Beulah 10 1305CST 0 0 2K Thunderstorm Wind (G50)
Several trees were blown down on Highway 307.

Hickman County
Clinton 10 1345CST 0 0 1K Lightning
A tree at the county courthouse was struck by lightning and caught fire.

Henderson County
Henderson 29 1645CST 0 0 Thunderstorm Wind (G50)
Several trees were blown down.

Todd County
6 SSW Elkton 30 1020CST 0 0 Thunderstorm Wind (G50)
Large tree limbs were down on Highway 181.

LAKE ERIE

LEZ444 Mi Waters Of Lake Erie 21 1301EST 0 0 Marine Tstm Wind (G44)
11 N Detroit River Light

LEZ162 Le Detroit R Lt To Reno Beach Oh Byd 5Nm Offshore To Intl Border
Maumee Bay to Reno Beach
21 1330EST 1500EST 0 0 Marine Tstm Wind (G35)

LEZ163 Le Reno Beach To The Islands Oh Byd 5Nm Offshore To Intl Border
Reno Beach to The Islands
21 1330EST 1500EST 0 0 Marine Tstm Wind (G35)

LEZ164 Le The Islands To Vermilion Oh Byd 5Nm Offshore To Intl Border
The Islands to Vermilion
21 1330EST 1500EST 0 0 Marine Tstm Wind (G35)

LEZ142 Maumee Bay To Reno Beach Oh
Maumee Bay to Reno Beach
21 1330EST 1500EST 0 0 Marine Tstm Wind (G35)

LEZ143 Reno Beach To The Islands Oh
Reno Beach to The Islands
21 1330EST 1500EST 0 0 Marine Tstm Wind (G35)

LEZ144 The Islands To Vermilion Oh
The Islands to Vermilion
21 1330EST 1500EST 0 0 Marine Tstm Wind (G35)

Thunderstorms producing wind gusts to 35 knots moved across the west end of Lake Erie. A 35 knot gust was measured on South Bass Island.

LEZ444 Mi Waters Of Lake Erie 22 1139EST 0 0 Marine Tstm Wind (G43)
10 N Detroit River Light

LEZ162 Le Detroit R Lt To Reno Beach Oh Byd 5Nm Offshore To Intl Border
Maumee Bay to Reno Beach
22 1900EST 2100EST 0 0 Marine Tstm Wind (G35)

LEZ163 Le Reno Beach To The Islands Oh Byd 5Nm Offshore To Intl Border
Reno Beach to The Islands
22 1900EST 2100EST 0 0 Marine Tstm Wind (G35)

LEZ142 Maumee Bay To Reno Beach Oh
Maumee Bay to Reno Beach
22 1900EST 2100EST 0 0 Marine Tstm Wind (G35)
A line of strong thunderstorms moved across Lake Erie and produced wind gusts in excess of 35 knots. A 48 knot gust was measured at the Cleveland lighthouse.

LEZ143  
Reno Beach to The Islands

LEZ146  
Avon Point to Willowick

LEZ166  
Le Avon Pt To Willowick Oh Byd

LEZ164  
Le The Islands To Vermilion Oh Byd

LEZ165  
Le Vermilion To Avon Pt Oh Byd

LEZ167  
Le Willowick To Geneva On The Lake Oh Byd

LEZ144  
The Islands To Vermilion

LEZ145  
Vermilion To Avon Point

LEZ147  
Willowick To Geneva On The Lake

LEZ149  
Conneaut Oh To Ripley Ny

LEZ148  
Geneva On The Lake Oh To Conneaut

LEZ169  
Le Conneaut Oh To Ripley Ny Oh Byd

LEZ168  
Le Geneva On The Lake Oh Byd

LEZ146  
Avon Point To Willowick

LEZ166  
Le Avon Pt To Willowick Oh Byd

LEZ164  
Le The Islands To Vermilion Oh Byd

LEZ165  
Le Vermilion To Avon Pt Oh Byd
A strong thunderstorm moved east across Lake Erie and produced 35 knot wind gusts.

Strong thunderstorms moved east across Lake Erie and produced wind gusts to 35 knots.

A line of strong thunderstorms moved east across Lake Erie and produced wind gusts of 35 knots.
### Storm Data and Unusual Weather Phenomena

#### July 2002

**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>Number of Persons Injured</th>
<th>Estimated Damage to Property</th>
<th>Estimated Damage to Crops</th>
<th>Character of Storm</th>
</tr>
</thead>
</table>

**Lake Erie**

| LEZ165 | Le Vermillion To Avon Pt Oh Byd 5Nm Offshore To Intl Border | Vermillion to Avon Point | 28 | 1830EST | 2000EST | 0 | 0 | Marine Tstm Wind (G35) |
| LEZ142 | Maumee Bay To Reno Beach Oh | Maumee Bay to Reno Beach | 28 | 1830EST | 2000EST | 0 | 0 | Marine Tstm Wind (G35) |
| LEZ143 | Reno Beach To The Islands Oh | Reno Beach to The Islands | 28 | 1830EST | 2000EST | 0 | 0 | Marine Tstm Wind (G35) |
| LEZ144 | The Islands To Vermilion Oh | The Islands to Vermilion | 28 | 1830EST | 2000EST | 0 | 0 | Marine Tstm Wind (G35) |
| LEZ145 | Vermilion To Avon Point Oh | Vermilion to Avon Point | 28 | 1830EST | 2000EST | 0 | 0 | Marine Tstm Wind (G35) |

A line of strong thunderstorms moved east across Lake Erie and produced wind gusts in excess of 35 knots.

| LEZ146 | Avon Point To Willowick Oh | Avon Point to Willowick | 28 | 2030EST | 2200EST | 0 | 0 | Marine Tstm Wind (G35) |
| LEZ166 | Le Avon Pt To Willowick Oh Byd 5Nm Offshore To Intl Border | Avon Point to Willowick | 28 | 2030EST | 2200EST | 0 | 0 | Marine Tstm Wind (G35) |
| LEZ163 | Le Reno Beach To The Islands Oh Byd 5Nm Offshore To Intl Border | Reno Beach to The Islands | 28 | 2030EST | 2200EST | 0 | 0 | Marine Tstm Wind (G35) |
| LEZ164 | Le The Islands To Vermilion Oh Byd 5Nm Offshore To Intl Border | The Islands to Vermilion | 28 | 2030EST | 2200EST | 0 | 0 | Marine Tstm Wind (G35) |
| LEZ165 | Le Vermilion To Avon Pt Oh Byd 5Nm Offshore To Intl Border | Vermilion to Avon Point | 28 | 2030EST | 2200EST | 0 | 0 | Marine Tstm Wind (G35) |
| LEZ143 | Reno Beach To The Islands Oh | Reno Beach to The Islands | 28 | 2030EST | 2200EST | 0 | 0 | Marine Tstm Wind (G35) |
| LEZ144 | The Islands To Vermilion Oh | The Islands to Vermilion | 28 | 2030EST | 2200EST | 0 | 0 | Marine Tstm Wind (G35) |
| LEZ145 | Vermilion To Avon Point Oh | Vermilion to Avon Point | 28 | 2030EST | 2200EST | 0 | 0 | Marine Tstm Wind (G35) |

Scattered strong thunderstorms moved east across Lake Erie and produced winds in excess of 35 knots.

| LEZ162 | Le Detroit R Lt To Reno Beach Oh Byd 5Nm Offshore To Intl Border | Maumee Bay to Reno Beach | 29 | 1600EST | 1745EST | 0 | 0 | Marine Tstm Wind (G35) |
| LEZ163 | Le Reno Beach To The Islands Oh Byd 5Nm Offshore To Intl Border | Reno Beach to The Islands | 29 | 1600EST | 1745EST | 0 | 0 | Marine Tstm Wind (G35) |
| LEZ164 | Le The Islands To Vermilion Oh Byd 5Nm Offshore To Intl Border | The Islands to Vermilion | 29 | 1600EST | 1745EST | 0 | 0 | Marine Tstm Wind (G35) |
| LEZ142 | Maumee Bay To Reno Beach Oh | Maumee Bay to Reno Beach | 29 | 1600EST | 1745EST | 0 | 0 | Marine Tstm Wind (G35) |
| LEZ143 | Reno Beach To The Islands Oh | Reno Beach to The Islands | 29 | 1600EST | 1745EST | 0 | 0 | Marine Tstm Wind (G35) |
A line of severe thunderstorms moved east across Lake Erie and produced wind gusts well in excess of 35 knots. A 54 knot gust was measured at the Cleveland lighthouse and a bouy north of Vermilion measured a 37 knot gust. A line of strong thunderstorms moved east across Lake Erie and produced wind gusts in excess of 35 knots. A 38 knot gust was measured at the Presque Isle lighthouse.
<table>
<thead>
<tr>
<th>Location</th>
<th>Time</th>
<th>Path Length</th>
<th>Path Width</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><strong>LAKE HURON</strong></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>LHZ362 Lh Presque Isl Lt To Alabaster Mi Ewd Byd 5Nm Offshore To Intl Border</td>
<td>28 0405EST</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Marine Tstm Wind (G45)</td>
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<tr>
<td>LHZ349 East Tawas</td>
<td>28 0405EST</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td>Marine Tstm Wind (G45)</td>
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</tr>
<tr>
<td>LHZ422 Inner Saginaw Bay &amp; Sw Of Pt Au Gres To Bay Port Mi Sebewaing</td>
<td>28 0440EST</td>
<td></td>
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<td>Marine Tstm Wind (G39)</td>
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<tr>
<td>LHZ421 Outer Saginaw Bay &amp; Sw Of Alabaster To Pt Austin Mi 6 SW Bay Port</td>
<td>28 0440EST</td>
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<td></td>
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<td></td>
<td>Marine Tstm Wind (G39)</td>
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</tr>
<tr>
<td>LHZ442 Hbr Beach To Pt Sanilac Mi 16 W Harbor Beach</td>
<td>28 0455EST</td>
<td></td>
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<td>Marine Tstm Wind (G50)</td>
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</tr>
<tr>
<td>LHZ463 Lh Hbr Beach To Pt Sanilac 5Nm Offshore To Intl Border</td>
<td>28 0455EST</td>
<td></td>
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<td>Marine Tstm Wind (G50)</td>
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</tr>
<tr>
<td>LHZ462 Lh Pt Austin To Hbr Beach Mi 16 W Harbor Beach</td>
<td>28 0455EST</td>
<td></td>
<td></td>
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<td>Marine Tstm Wind (G50)</td>
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<tr>
<td>LHZ441 Pt Austin To Hbr Beach Mi 16 W Harbor Beach</td>
<td>28 0455EST</td>
<td></td>
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<td>Marine Tstm Wind (G50)</td>
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<tr>
<td>LHZ422 Inner Saginaw Bay &amp; Sw Of Pt Au Gres To Bay Port Mi 8 SW Sebewaing</td>
<td>29 1400EST</td>
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<td>Marine Tstm Wind (G48)</td>
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</tr>
<tr>
<td>LHZ421 Outer Saginaw Bay &amp; Sw Of Alabaster To Pt Austin Mi 15 SW Bay Port 22 SW Bay Port</td>
<td>29 1400EST</td>
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<td>Marine Tstm Wind (G48)</td>
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</tr>
<tr>
<td>LHZ462 Lh Pt Austin To Hbr Beach Mi 5Nm Offshore To Intl Border 20 SW Port Austin</td>
<td>29 1408EST</td>
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<td>Marine Tstm Wind (G50)</td>
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<tr>
<td>LHZ441 Pt Austin To Hbr Beach Mi 20 SW Port Austin</td>
<td>29 1408EST</td>
<td></td>
<td></td>
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<td>Marine Tstm Wind (G50)</td>
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<tr>
<td>LHZ347 5Nm E Of Mackinac Bridge To Presque Isle Lt Mi Bois Blanc Island</td>
<td>31 1750EST</td>
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<td>Marine Tstm Wind (G40)</td>
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</tr>
<tr>
<td>LHZ361 Lh 5Nm E Of Mackinac Bridge To Presque Isl Lt Mi Ewd Byd 5Nm Offshore To Intl Border Bois Blanc Island</td>
<td>31 1750EST</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>Marine Tstm Wind (G40)</td>
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</tr>
<tr>
<td>LHZ346 St Ignace To False Detour Channel St. Ignace</td>
<td>31 1750EST</td>
<td></td>
<td></td>
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<td></td>
<td>Marine Tstm Wind (G40)</td>
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</tr>
<tr>
<td>LHZ345 Straits Of Mackinac Within 5Nm Of Mackinac Bridge Including Mackinac Island Mackinac Bridge</td>
<td>31 1750EST</td>
<td></td>
<td></td>
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<td>Marine Tstm Wind (G40)</td>
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</tr>
<tr>
<td>LHZ362 Lh Presque Isl Lt To Alabaster Mi Ewd Byd 5Nm Offshore To Intl Border Alpena</td>
<td>31 2003EST</td>
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<td>Marine Tstm Wind (G35)</td>
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<tr>
<td>LHZ348 Presque Isl Lt To Sturgeon Pt Mi Ossineke</td>
<td>31 2003EST</td>
<td></td>
<td></td>
<td></td>
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<td>Marine Tstm Wind (G35)</td>
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<tr>
<td><strong>LAKE MICHIGAN</strong></td>
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<tr>
<td>LMZ643 Sheboygan To Ft Washington Wi .5 E Sheboygan</td>
<td>08 1700CST</td>
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<td>Marine Tstm Wind (G46)</td>
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<tr>
<td>LMZ643 Sheboygan To Ft Washington Wi .5 E Sheboygan</td>
<td>08 1900CST</td>
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<td>Marine Tstm Wind (G36)</td>
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<tr>
<td>LMZ644 Pt Washington To North Pt Lt Wi .3 E Mequon</td>
<td>08 1950CST</td>
<td></td>
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<td>Marine Tstm Wind (G52)</td>
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<tr>
<td>LMZ644 Pt Washington To North Pt Lt Wi 5 SE Mequon</td>
<td>08 1952CST</td>
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<td>Marine Tstm Wind (G52)</td>
<td></td>
</tr>
</tbody>
</table>
LAKE MICHIGAN

A line of strong thunderstorms moved east-southeast out over Lake Michigan, producing powerful wind gusts.

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
<th>Time</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>LMZ363</td>
<td>21</td>
<td>0542EST</td>
<td>Lm 5Nm W Of Mackinac Bridge To Manistee Mi Nwd Beyond 5Nm Offshore To Mid Line Of Lake</td>
<td>Marine Tstm Wind (G35)</td>
<td></td>
</tr>
<tr>
<td>LMZ342</td>
<td>21</td>
<td>0542EST</td>
<td>Norwood Mi To 5Nm W Of Mackinac Bridge</td>
<td>Marine Tstm Wind (G35)</td>
<td></td>
</tr>
<tr>
<td>LMZ345</td>
<td>21</td>
<td>0542EST</td>
<td>Sleeping Bear Pt To Manistee Mi</td>
<td>Marine Tstm Wind (G35)</td>
<td></td>
</tr>
<tr>
<td>LMZ344</td>
<td>21</td>
<td>0542EST</td>
<td>Grand Traverse Lt To Sleeping Bear Pt Mi</td>
<td>Marine Tstm Wind (G35)</td>
<td></td>
</tr>
<tr>
<td>LMZ363</td>
<td>21</td>
<td>0620EST</td>
<td>Lm 5Nm W Of Mackinac Bridge To Manistee Mi Nwd Beyond 5Nm Offshore To Mid Line Of Lake</td>
<td>Marine Tstm Wind (G35)</td>
<td></td>
</tr>
<tr>
<td>LMZ342</td>
<td>21</td>
<td>1945EST</td>
<td>Norwood Mi To 5Nm W Of Mackinac Bridge</td>
<td>Marine Tstm Wind (G60)</td>
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<tr>
<td>LMZ341</td>
<td>21</td>
<td>1945EST</td>
<td>Seul Choix Pt Mi To 5Nm W Of Mackinac Bridge</td>
<td>Marine Tstm Wind (G60)</td>
<td></td>
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<tr>
<td>LMZ345</td>
<td>21</td>
<td>1945EST</td>
<td>Sleeping Bear Pt To Manistee Mi</td>
<td>Marine Tstm Wind (G60)</td>
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<tr>
<td>LMZ344</td>
<td>21</td>
<td>1945EST</td>
<td>Grand Traverse Lt To Sleeping Bear Pt Mi</td>
<td>Marine Tstm Wind (G60)</td>
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<tr>
<td>LMZ543</td>
<td>30</td>
<td>2055CST</td>
<td>Two Rivers To Sheboygan Wi</td>
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LAKE ONTARIO

LOZ45  Mexico Bay Ny To The St Lawrence River
Port Ontario  22  1650EST  0 0 10K  Marine Tstm Wind (G45)

LAKE ST CLAIR

LCZ460  Lake St Clair (U.S. Portion)
1 N Metropolitan Beach  18  1400EST  0 0  Marine Tstm Wind (G37)
LCZ423  Detroit River
1 SW Ambassador Bridg  18  1441EST  0 0  Marine Tstm Wind (G44)
LCZ460  Lake St Clair (U.S. Portion)
5 SW Grosse Pointe  18  1441EST  0 0  Marine Tstm Wind (G44)
LCZ423  Detroit River
11 W Wyandotte  21  1254EST  0 0  Marine Tstm Wind (G41)
LCZ460  Lake St Clair (U.S. Portion)
4 N Grosse Pointe  21  1259EST  0 0  Marine Tstm Wind (G40)
LCZ423  Detroit River
Wyandotte  22  1139EST  0 0  Marine Tstm Wind (G43)
LCZ460  Lake St Clair (U.S. Portion)
Grosse Pointe  22  1200EST  0 0  Marine Tstm Wind (G51)
LCZ422  St Clair River
Algonac  22  1800EST  0 0  Marine Tstm Wind (G50)
LCZ460  Lake St Clair (U.S. Portion)
8 SE New Baltimore  27  2045EST  0 0  Marine Tstm Wind (G41)
LCZ422  St Clair River
Algonac  27  2045EST  0 0  Marine Tstm Wind (G41)
LCZ460  Lake St Clair (U.S. Portion)
5 NW New Baltimore  28  1242EST  0 0  Marine Tstm Wind (G60)
LCZ422  St Clair River
2 N Algonac  28  1327EST  0 0  Marine Tstm Wind (G52)
LCZ422  St Clair River
City Of St. Clair  29  1627EST  0 0  Marine Tstm Wind (G43)

LAKE SUPERIOR

LSZ246  Marquette To Munising Mi
Au Train  21  1800EST  0 0  Waterspout
Waterspout was sighted over Lake Superior offshore from Au Train.

LSZ145  Duluth Mn To Pt Wing Wi
Duluth  31  0735CST  0 0  Marine Tstm Wind (G38)
The automated observing equipment in Duluth and at Superior reported 38 knot wind gusts.

LOUISIANA, Northeast

MorehouseParish
Oak Ridge  07  1430CST  0 0  1K  Thunderstorm Wind
Several trees were blown down at the intersection of South Oak Street and State Road 133.

MorehouseParish
Collinston  11  1135CST  0 0  1K  Thunderstorm Wind
A few trees were blown down in the city.
Storm Data and Unusual Weather Phenomena

July 2002

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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>
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<th>Estimated Damage Property</th>
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LOUISIANA, Northeast

East CarrollParish
Lake Providence
Powerlines and a few trees were blown down.

MorehouseParish
Bastrop
Several trees were blown down in the area.

East CarrollParish
Transylvania
A few trees were blown down around the community.

CatahoulaParish
Larto
Several trees were blown down around Lake Larto.

CatahoulaParish
Sicily Is
Several trees and powerlines were blown down along State Road 15 between Wisner and Sicily Island.

FranklinParish
Winnsboro
Several trees were blown down around the city.

East CarrollParish
Lake Providence
Thunderstorm winds resulted in minor roof damage to a building, as well as trees and powerlines being blown down across the area.

MadisonParish
Tallulah
Several trees were blown down on State Roads 602 and 603, as well as U.S. Highway 80.

TensasParish
Newellton
Several trees and large limbs were blown down in the city.

LOUISIANA, Northwest

LincolnParish
Simsboro
Numerous trees down. A tree also fell on an 18-Wheeler on Interstate 20.

LincolnParish
8 N Simsboro
Numerous trees down.

LAZ002
Bossier
Construction worker was found beside his vehicle at a construction site in Bossier Parish around 1330 CST and pronounced dead at 1430 CST. Heat stress was assumed as the cause of death.

WebsterParish
Minden
A hollow tree was split in two by strong winds and fell across two trailers doing moderate damage. A large tree limb also fell across a car in the same trailer park.

JacksonParish
Jonesboro
Several large trees down along Hwy 4 east and west.

JacksonParish
2 S Jonesboro
Numerous trees down.
## LOUISIANA, Northwest

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
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## Storm Data and Unusual Weather Phenomena

### July 2002

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<td>to lose power.</td>
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<td>Pontchartrain throwing</td>
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</tr>
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### Storm Data and Unusual Weather Phenomena

**July 2002**

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<tr>
<th>Location</th>
<th>Date/Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed, Injured</th>
<th>Estimated Damage</th>
<th>Character of Storm</th>
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### LOUISIANA, Southeast

Thunderstorm winds uprooted a 40 foot oak tree and snapped a pine tree 30 feet above the ground.

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<th>Estimated Damage</th>
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<tr>
<td>Harahan</td>
<td>21</td>
<td>0</td>
<td>1.5K</td>
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<td>St. Charles Parish</td>
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</tr>
<tr>
<td>Destrehan</td>
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<td>St. Charles Parish</td>
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<tr>
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<tr>
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### LOUISIANA, Southwest

Two men fishing in a boat on a creek south of Merryville moved ashore when a thunderstorm passed by. While standing under an oak tree, lightning struck and one of the men fell on his back, struck by lightning. M57UT
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>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
<th>Injured</th>
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<th>Character of Storm</th>
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<td>Numerous trees were blown down in Breaux Bridge and St. Martinville.</td>
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<td>A large tree fell on a parked car, destroying it.</td>
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136
## Storm Data and Unusual Weather Phenomena

### LOUISIANA, Southwest

Several trees and power lines were blown down.

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

**MAINE, North**

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<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>
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<td>Trees blown down. Several parked planes received damage at the airport.</td>
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</table>
### MAINE, North

**Aroostook County**

- **3 E Knowles Corner**
  - **04 0030EST**
  - **0** killed, **0** injured
  - Thunderstorm Wind (G52)
  - Several trees over one foot in diameter uprooted.

- **Oakfield**
  - **04 0055EST**
  - **0** killed, **0** injured
  - Thunderstorm Wind (G52)
  - Several trees blown down. Power lines also reported down.

- **Presque Isle**
  - **04 1045EST**
  - **0** killed, **0** injured
  - Thunderstorm Wind (G61)
  - Several trees blown down. A fence was also blown down and a chimney damaged.

- **New Sweden**
  - **04 1055EST**
  - **0** killed, **0** injured
  - Thunderstorm Wind (G52)
  - Four trees blown down. Several of the trees resting on power lines.

- **Mapleton**
  - **04 1100EST**
  - **0** killed, **0** injured
  - Thunderstorm Wind (G61)
  - Trees and power lines blown down. Three framed walls of a building under construction were blown over and a church steeple was damaged.

- **Easton**
  - **04 1108EST**
  - **0** killed, **0** injured
  - Thunderstorm Wind (G52)
  - Two trees blown down.

- **3 NW Mapleton**
  - **04 1115EST**
  - **0** killed, **0** injured
  - Thunderstorm Wind (G52)
  - Trees blown down at Castle Hill.

- **Presque Isle**
  - **04 1130EST**
  - **0** killed, **0** injured
  - Thunderstorm Wind (G52)
  - Trees blown down all over town.

- **Monticello**
  - **04 1215EST**
  - **0** killed, **0** injured
  - Thunderstorm Wind (G52)
  - Five trees blown down.

- **8 W Littleton to 7 W Littleton**
  - **04 1500EST**
  - **1** killed, **0** injured
  - Tornado (F1)
  - The tornado originated near Number Seven Ridge and tracked southeast around a mile before dissipating. The tornado remained in wooded areas during the entire track causing extensive tree damage.

- **Brownville**
  - **04 1500EST**
  - **0** killed, **0** injured
  - Thunderstorm Wind (G61)
### MAINE, North

Around 20 trees were blown down and a picnic table was thrown 100 feet.

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MAINE, North

Washington County
Vanceboro  23  1335EST  0  0  Thunderstorm Wind (G52)
Large tree limbs blown down.

MAINE, South

Franklin County
New Vineyard  02  0700EST  0  0  2.5K  Lightning
Lightning struck a house in the town of New Vineyard and the resulting fire burned it to the ground. The unoccupied house was very old and small and valued at $2500 by the town.

Somerset County
St Albans  03  1900EST  0  0  Thunderstorm Wind (G50)
Winds from a severe thunderstorm knocked over several dozen trees in the town of St. Albans. In addition, an above ground pool was demolished and a metal storage shed was tossed into the woods. One person was injured when a tree fell on her car, and a second car left the road to avoid debris.

Kennebec County
Winslow  04  1717EST  0  0  Thunderstorm Wind (G50)

Knox County
Rockland  04  1730EST  0  1  Lightning

Waldo County
Unity  04  1740EST  0  0  Thunderstorm Wind (G50)

Waldo County
Searsport  04  1755EST  0  0  2K  Lightning
Lightning struck the Knox County Sheriff’s Dispatch Center causing it to lose power for a few minutes and injuring a dispatcher who was on the phone at the time. Lightning also struck a home in Searsport and damaged the chimney and a couple computers inside the home. In addition, in Skowhegan, lightning struck the police department and a second building near the fire department destroying television monitors and damaging computer equipment. The thunderstorms also downed branches and power lines in Winslow and Unity.

Oxford County
Town House  15  1450EST  0  0  Hail(0.75)

Somerset County
The Forks  15  1511EST  0  0  Hail(1.50)

Oxford County
Porter  15  1520EST  0  0  Thunderstorm Wind (G50)

Androscoggin County
Turner  15  1530EST  0  0  Thunderstorm Wind (G50)

Oxford County
Buckfield  15  1530EST  0  0  26K  Lightning

Oxford County
Hiram  15  1530EST  0  0  Hail(0.75)

Oxford County
Hiram  15  1530EST  0  0  Thunderstorm Wind (G50)

Androscoggin County
Greene  15  1600EST  0  0  Thunderstorm Wind (G50)

Cumberland County
East Baldwin  15  1600EST  0  0  Hail(0.88)

Kennebec County
Monmouth  15  1600EST  0  0  Thunderstorm Wind (G50)
### Storm Data and Unusual Weather Phenomena

#### July 2002

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Severe thunderstorms moving through western and mid-coast Maine knocked down trees and caused large hail throughout the area. Trees and/or large limbs were reported down in the towns of Westbrook, Porter, Gorham, Hiram, Turner, Greene, Dresden, Monmouth, and Wiscasset. One and a half inch hail was reported in The Forks, one inch hail was reported in Cornish and Kezar Falls, nickel sized hail was reported in Baldwin, and dime-sized hail was reported in Cape Elizabeth, Hiram, Richmond, Limington, and Albany Township. As the storms moved through the state, lightning ignited a fire in Buckfield and Tenants Harbor. In Buckfield, lightning struck a large tree and followed ground lines into a home and shed. The shed and its contents, including a car and two motorcycles, were destroyed by the resulting fire, causing an estimated $26000 in damage. In Tenants Harbor, lightning struck the steeple of a church.
MAINE, South

York County
Limerick 23 1530EST 0 0 100K Lightning

Scattered thunderstorms moving through western and central Maine knocked down trees and power lines and lightning from the storms damaged buildings and caused several fires. Trees were reported down in Skowhegan, Fairfield, Chesterville, Cumberland, and Belmont. Lightning damaged structures in Limerick, Warren, Scarborough, Bath, China, and Industry. In Limerick, lightning ignited a fire in a vacant summer home causing the structure to burn to the ground. Homes in Industry, Scarborough and Bath were heavily damaged by fire, smoke, and water after being struck by lightning. Church steeples were struck and damaged by lightning in Warren and Bath.

MARYLAND, Central


High pressure remained stationary off the Delmarva coastline during the 1st week of July. This resulted in a prolonged period of hot and humid weather across the Mid Atlantic region. Between July 2nd and 4th, high temperatures rose into the lower to middle 90s and dew points reached into the lower 70s. This resulted in heat index values reaching 100 to 110 degrees during the afternoon. In addition, heat index values only dropped into the middle 80s overnight in downtown Baltimore on the 4th and 5th, resulting in little relief for people without air conditioning. These conditions led to several heat related deaths and illnesses, especially in people already suffering from pre-existing medical conditions.

In Baltimore City, 12 people died in their non air-conditioned homes between July 3rd and 9th. On the 3rd, an 85 year-old man died from heat stroke. On the 4th, two men, age 65 and 72, and one woman who was 90 years old succumbed to the heat. On the 5th, three men, age 52, 56, and 86, and two women, age 53 and 67, died. On the 6th, an 80 year-old man and an 82 year-old woman died. On the 7th, a man of unknown age was found dead in his residence. On the 8th, an 88 year-old man was found dead in his home. On the 9th, an 83 year-old woman and a 53 year-old man died from exposure to the heat. Several other people were treated for heat illnesses in city hospitals during the period. In Baltimore County, a 78 year-old man died in his home on the 4th of July and a 48 year-old man was found dead at a construction site on the 10th. Also on the 4th, ten people were treated for heat exhaustion at a parade in Dundalk.

In Montgomery County, a 55 year-old man died on the 4th and a 74 year-old man died on the 8th. In Harford County, a 69 year-old woman was found dead in her non-air-conditioned Aberdeen home on the 5th. In Frederick County, a 23 year-old firefighter who was participating in a jogging exercise on the morning of the 3rd collapsed and went into cardiac arrest. By the time he arrived at the hospital, his body temperature had reached 107 degrees. He died of heat stroke a short time later. Twenty other people were treated at hospitals for heat illnesses countywide between July 2nd and 4th. In Washington County, a woman in her 60s was treated at a Hagerstown hospital for heat exhaustion. Her body temperature reached 105 degrees and she suffered from dementia. A 67 year-old man was overcome for a time by heat while changing a tire near Hancock. A firefighter was also treated for heat exhaustion on the 3rd after fighting a blaze in Hagerstown.

### Storm Data and Unusual Weather Phenomena

<table>
<thead>
<tr>
<th>Location</th>
<th>Time/Date</th>
<th>Character of Storm</th>
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<tbody>
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<tr>
<td>2 NE Smithsburg</td>
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<td>(G53)*M</td>
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<td></td>
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<td>A wind gust of 61 MPH was recorded.</td>
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<td>09 1910EST</td>
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<td>Reisterstown to Dundalk</td>
<td>1940EST</td>
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*Note: *-Estimates are based on preliminary data.
Thunderstorms with heavy downpours and damaging winds moved through Central Maryland between 6 PM and 9:30 PM EDT on the 9th. In Washington County, a wind gust of 61 MPH was recorded just northeast of Smithsburg. Light tree damage was noted in the vicinity. In Frederick County, trees were downed in Frederick where a wind gust of 48 MPH was recorded. One fallen tree damaged four cars on North Market Street. The communities of Mount Airy, Thurmont, Braddock Heights, and Frederick reported power outages. In Carroll County, gusty winds and driving rain toppled several tents at a community festival in Winfield. Ten people were injured. Wind gusts were estimated between 40 and 50 MPH. In Anne Arundel County, numerous trees and electrical wires were downed in the central and northern portion of the county. Communities affected by the high winds included Maryland City, Glen Burnie, Waugh Chapel, Odenton, Orchard Beach, Annapolis, Linthicum, Marley Park, Harmon's Dorsey, Arnold, Harold Harbor, Riva, Lake Shore, and Crofton. A wind gust of 49 MPH was recorded at the Naval Academy in Annapolis and a gust of 48 MPH was measured at BWI Airport. In Baltimore County, hundreds of trees and some power lines were downed between Reisterstown and Dundalk. Officials in Baltimore City received 50 calls regarding downed trees. A wind gust of 48 MPH was recorded on the University of Maryland's Baltimore Campus. A wind gust of 62 MPH forced a 20 minute closure of the Key Bridge (Interstate 695) as the storms moved through. In the Baltimore metro area, around 70,000 customers lost power as a direct result of the storm. In Harford County, trees were downed in Joppa and Bel Air.

Thunderstorms with heavy downpours and frequent lightning moved through Central Maryland during the afternoon of the 23rd. In Montgomery County, the roofs of two homes were damaged by lightning fires in Rockville. An observer in Potomac recorded 2.3 inches of rain in one hour. Several trees in the city were also struck by lightning, including a handful that were downed onto power lines. Lightning started a shed on fire and the flames spread to an adjoining fence. Pea sized hail was also reported.

A large area of high pressure sat off the Mid-Atlantic coast during the last week of July. This caused a warm and moist south wind to blow into the region for several days, resulting in another heat wave. The hottest days were the 28th and 29th of July when temperatures rose into the 90s and heat index values reached 100 to 110 degrees. Power companies reported record electricity use on the 29th. Excessive heat was believed to have played a part in buckling train tracks that caused a passenger train derailment in the Montgomery County community of Kensington on the afternoon of the 29th. The derailment injured 97 people, including 6 who were critically injured.
MARYLAND, Central

At least three people died from heat stroke in Central Maryland during the heat wave. In Prince George's County, a 31-year-old man was found dead in his residence on the 30th. In Baltimore City, a 73-year-old man was found dead in his home on the 30th and an 81-year-old woman was found dead in her home on the 31st. Underlying health conditions contributed to these deaths. A 71-year-old man was also believed to have succumbed to the heat in his Baltimore home where a temperature of 96.5 degrees was measured on the 28th. Several other jurisdictions reported an increase of emergency room visits due to the heat. In Harford County, 12 elderly citizens were treated for heat illness. In Anne Arundel County, 7 people ranging from children to senior citizens were treated for exposure to the heat. In Baltimore County, at least 3 people were treated for heat cramps or heat exhaustion. M73PH, F81PH, M31PH

MARYLAND, Northeast

**MDZ008-012-015-019>020 Cecil - Kent - Queen Annes - Talbot - Caroline**

<table>
<thead>
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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>Crops</th>
<th>Character of Storm</th>
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The combination of unseasonably warm weather and below normal precipitation intensified the drought across the Maryland Eastern Shore in July. 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 exceptions were in Galena (Kent County) where watering restrictions were in place on the odd number days and in Centreville (Queen Anne's County) where vehicle washing was banned and lawn and garden irrigation was restricted to odd and even days. As of July 9th, only 18 percent of Eastern Shore soil had adequate moisture. To exacerbate the problem, rainfall was scarce during the critical time when corn plants were pollinating. Conditions were worse south of Stevensville. It was estimated that 30 percent of the corn crop in Queen Anne's County will be lost. Percentages in Talbot County increased to as high as 80 percent. Some corn fields may not be harvested at all. While soybeans are more drought resistant, the hot and dry weather increased the damage done by spider mites. Irrigation ponds were drying up and the need for irrigation was dropping groundwater levels. Monitoring groundwater wells in central Maryland were reaching record lows for the calendar day. A well in Grasonville (Queen Anne's County) has shown a 15 foot decline in water levels since it was installed in 1980. In Queen Anne's County, homeowners' wells were drying at twice the rate of last summer and permits to replace wells have tripled. There was a two week waiting period for digging or deepening existing wells. Profits at nurseries were down as homes were not planting. July monthly precipitation on a county weighted average ranged from 2.2 inches in Cecil County to 2.9 inches in Talbot and Caroline Counties. Normal is around 3.9 inches. At the Baltimore-Washington International Airport, July monthly precipitation was 2.26 inches, 1.59 inches below normal.

July started with unseasonably hot and humid weather across the Maryland Eastern Shore. The hottest and most humid weathe

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A northerly flow of air through the lower half of the atmosphere pushed smoke from forest fires in northern Quebec across the Maryland Eastern Shore. The smoke reduced visibilities and could be smelled from the afternoon of the 6th into the afternoon of the 7th. Winds started to shift from north on the 7th to the west on the 8th and pushed the smoke farther to the east. In all about 50 fires were burning near James Bay about 500 miles north of Montreal in Quebec Province. The fires consumed about 150,000 acres and caused the evacuation of the Native American village of Nemaska.

Kent County

<table>
<thead>
<tr>
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<th>Crops</th>
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<td>Thunderstorm Wind (G52)</td>
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A severe thunderstorm knocked down a couple of trees in Chestertown and in the southwestern part of Kent County. One downed

M73PH, F81PH, M31PH

Highest temperatures included 100 degrees at the Baltimore-Washington International Airport and Easton (Talbot County) and 99 degrees in Salisbury (Wicomico County). M80OT
MARYLAND, Northeast

tree damaged a vehicle in Chestertown. The downed trees caused power outages in Chestertown.

Queen Anne's County
Queenstown to Church Hill
09 000EST
2000EST
0 0
Thunderstorm Wind (G50)

A severe thunderstorm knocked down a couple of trees near the Queen Anne's/Kent County border.

Cecil County
Cecilton to North East
09 020EST
2025EST
0 0
Thunderstorm Wind (G52)

A severe thunderstorm knocked down several trees in both North East and Cecilton. A couple of them fell on roadways.

Kent County
2 S Chestertown
09 020EST
2025EST
0 0
Thunderstorm Wind (G52)

A second severe thunderstorm knocked down two large trees unto one roadway south of Chestertown. A couple of trees also pulled down some wires.

Queen Anne's County
Sudlersville
09 030EST
2035EST
0 0
Thunderstorm Wind (G52)

The second severe thunderstorm of the evening in Queen Anne's County knocked down a couple of trees onto wires in Sudlersville.

MDZ008-012-015-019>020 Cecil - Kent - Queen Annes - Talbot - Caroline

15 0900EST
19 1800EST
0 0
Excessive Heat

Another work week of hot weather affected the Maryland Eastern Shore from the 15th through the 19th. High temperatures reached into the 90s each day. The highest temperatures mainly occurred on the 17th. Humidity levels were high for most of the week, except for the 16th when a weak back door cold front moved through the region. A second stronger front moved through the Eastern Shore during the first half of the 20th and ended the string of 90 degree high temperatures. Highest temperatures included 96 degrees in Salisbury (Wicomico County), 94 degrees in Stevensville (Queen Anne's County) and 93 degrees at the Baltimore-Washington International Airport.

MDZ008-012-015-019>020 Cecil - Kent - Queen Annes - Talbot - Caroline

28 0900EST
30 1800EST
1 0
Excessive Heat

Another hot and very humid air mass moved into the Maryland Eastern Shore on the 28th. In most areas this hot spell produced some of the highest heat indices of the summer as they reached between 105F and 110F during the afternoon of the 29th. A cold front moved through the region during the night of the 30th. While temperatures on the 31st still reached into the 90s, dew point temperatures and the moisture content of the air mass was considerably lower. The apparent temperature (or heat index) matched afternoon high temperatures. More humid air again moved in during the start of August. The string of days with high temperatures of 90 degrees or higher did not end until August 6th. There was one heat related death on the Eastern Shore in Talbot County. A 48-year-old man succumbed from the heat. There were also three instances of dogs dying in vehicles. The hot weather and high humidity levels taxed electric utilities and the PJM Interconnection issued a usage advisory.

For most places the highest temperatures with the July part of this hot spell occurred on the 29th and included 99 degrees in Chestertown (Kent County), 97 degrees in Salisbury (Wicomico County), 96 degrees in Easton (Talbot County) and 95 degrees at the Baltimore-Washington International Airport was 78.6 degrees, 2.1 degrees warmer than normal. At Royal Oak in Talbot County, 22 of the 31 days in July had high temperatures of 90 degrees or higher. M48OT

MARYLAND, South

MDZ021

Dorchester
20 1500EST
0
Excessive Heat

High temperatures reached the lower 90s. Heat related death of a man, found inside residence where the temperature was 100 degrees.

MARYLAND, West

NONE REPORTED.
A fast-moving line of severe thunderstorms brought large hail and damaging winds to parts of central and eastern Massachusetts. The damage began in Worcester County, where thunderstorms dropped dime sized hail on the border of Sterling and Princeton, before moving into southern Middlesex County where large branches were downed in Wayland.

Additional storms developed to the south, and caused additional damage in Norfolk and Plymouth Counties. A wind gust to 71 mph was measured at the Blue Hill Observatory in Milton, and there were numerous reports of downed trees and wires in Milton and Quincy. Quarter sized hail fell in Randolph, as observed by a Skywarn spotter, which lasted for about three minutes. In Dedham, lightning struck a house and ignited a fire which damaged the roof. Lightning also struck a two-story building in Weymouth causing minor damage. As these storms progressed into Plymouth County, they downed trees and wires in Abington, Whitman, Hanson, Hanover, and Pembroke. Dime sized hail was reported by a Skywarn spotter in Rockland. In all, about 7,500 customers were left without power in Norfolk and Plymouth Counties after the storms moved through.

Lightning from early morning thunderstorms caused brief power outages and minor damage in Essex County. A shed was damaged by a lightning-induced fire in Methuen and about 2,500 customers lost power in Methuen, Andover, Lawrence, Boxford,
MASSACHUSETTS, Central and East

and Salisbury.

Just after dawn, other thunderstorms moved across central and eastern Massachusetts. One thunderstorm briefly became severe in Worcester County, producing dime sized hail in Southbridge and downing large branches. The storm weakened as it reached greater Boston, but lightning struck two homes in Quincy and damaged two vehicles on the Southeast Expressway in Milton. No injuries were reported.

Franklin County
Shelburne

Hampshire County
Northampton to Easthampton

Franklin County
Northfield to New Salem

Hampden County
West Springfield to Westfield

Middlesex County
Pepperell to Ashby

Worcester County
West Brookfield

A line of severe thunderstorms moved across much of the Bay State during the afternoon and early evening, producing widespread wind damage. There were numerous reports of downed trees, power lines, and large branches from the Connecticut River Valley to the Worcester Hills, Merrimack Valley, and the eastern Massachusetts coastline from Marblehead to Hingham. Amateur radio operators measured wind gusts to 71 mph in Easthampton and to 59 mph in West Springfield as the storms moved through. In the city of Boston, winds estimated near 60 mph blew down scaffolding on a school building, while in Salem winds of similar

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MASSACHUSETTS, Central and East

A tornado briefly touched down in West Brookfield at 3:15 pm, and there were no injuries reported. The tornado had an approximate path width of 75 yards, a path length of about one-half mile, and was only on the ground for about 30 seconds, as determined by a National Weather Service survey of the area. The intensity of the tornado was determined to be an F1 on the Fujita damage scale, which corresponds to wind speeds between 73 and 112 mph. It is likely that winds were closer to the upper region of that range. The tornado formed over the northeast portion of Lake Wickaboag and traveled to the east, dissipating just to the east of the portion of Wickaboag Valley Road that is adjacent to the lake. Microburst damage was evident for about another two miles east of where the tornado circulation ended.

Eyewitnesses reported that a curtain of water was drawn from the lake as high as 50 feet into the air, and traveled east. A portion of it hit a house by the lake, causing its roof to fly off and become embedded to a tree across the street. There was also a brief flash as power lines were downed on Wickaboag Valley Road. Although most downed trees were facing southwest to northeast, there was some evidence of trees blown down to the north and northwest near the lake.

The same thunderstorm was responsible for another microburst in Spencer. Large trees were uprooted, some of which landed on cars and houses. Wind speeds were estimated to be near 100 mph based upon the damage observed.

Another severe thunderstorm produced a microburst in Concord, as determined by a National Weather Service survey, which occurred between 3:45 and 4:00 pm. Straight line winds on Monument Street were estimated near 75 mph. Numerous large trees were snapped off and uprooted, which in turn knocked down many electric poles and wires. A couple of large trees were snapped off, and fell on a house on Monument Street. The microburst was approximately one-half mile wide and about one and a half miles long.

MASSACHUSETTS, West

MAZ001 Berkshire

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<th>Location</th>
<th>Date</th>
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<th>Time Local/Standard</th>
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Smoke, from many forest fires across the Nemiscau region of northern Quebec, became trapped under a subsidence inversion, and was transported south across western Massachusetts on the evening hours of July 5, to the late evening of July 7. The forest fires were sparked by exceptionally hot and dry weather over that part of Canada followed by an unusual amount of thunderstorm activity, resulting in many lightning strikes. The circulation between high pressure over Hudsons Bay and a low pressure off the Canadian Maritimes transported the smoke southward. The smoke obscured the sky, and even reduced surface visibilities to as low as one mile, especially on the early morning of July 7. Advisories were issued warning people with respiratory problems to remain indoors and all individuals to curb outside activity. No major problems were reported to the National Weather Service as a result of this smoke. By late Sunday, July 7, the low pressure weakened and moved further east, allowing the wind to back into more of a westerly direction, finally dissipating the smoke.

Berkshire County Monterey

An upper level disturbance produced scattered thunderstorms across Berkshire County on the evening of July 18. One storm became briefly severe as thunderstorm winds blew a tree and large branches down in the town of Monterey.

Berkshire County Great Barrington

A cold front, working southeast across the Empire State, triggered a broken line of thunderstorms across Berkshire County during the early afternoon hours of July 23. Since the air mass ahead of the front was hot and humid, and winds aloft rather strong, a couple of the storms became severe. A thunderstorm deposited dime size hail at Great Barrington. Thunderstorm winds produced tree and wire damage in the towns of New Marlborough, Washington and Egremont Plain.
Local television media reported that an estimated 25 people across metro Detroit were treated for heat stroke during the beginning of the month as afternoon high temperatures soared into the 90s, while heat indices broke 100 degrees.

The public reported a couple large trees blown down by thunderstorm winds.

A newspaper reported that lightning struck a home in Shelby Township and started a small fire.

A newspaper reported that a 21-year old male was struck by lightning while working on runway lights at Selfridge Air National Guard Base.

A newspaper reported that an 11-year old girl was struck by lightning while riding her bicycle.

Law enforcement reported that several large trees and power lines were blown down. Two large trees were also uprooted and damaged some of the fence around the Beth El Memorial Park Cemetery.

A weak cold front moved through eastern Michigan during the afternoon of the 18th. This front triggered some scattered thunderstorms across the northern suburbs of Detroit. A couple of these storms produced some severe wind gusts. There was an estimated 11000 homes and businesses who lost power in Wayne and Macomb Counties due to the thunderstorms.

Spotters reported that several large tree branches were blown down in thunderstorm winds.

A newspaper reported that a large tree blew over in thunderstorm winds and fell onto a man, trapping him in his back yard.

A newspaper reported that lightning struck a home and set it on fire.

A newspaper reported that lightning struck a home in Macon Township and set it on fire, causing considerable damage.

A spotter reported several 8 to 12 inch diameter tree limbs blown down.

A newspaper reported that lightning struck a home in Macon Township and set it on fire, causing considerable damage.

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A newspaper reported that lightning struck a home and set it on fire.
MICHIGAN, East

Law enforcement reported 10 inch diameter tree limbs blown down.

Wayne County
Grosse Pt Woods
22 1200EST
Trained spotters reported 16 inch diameter tree limbs blown down.

Wayne County
Grosse Pt Woods
22 1200EST
Thunderstorm Wind (G54)

Lenawee County
2 E Fairfield
22 1215EST
Law enforcement reported numerous large trees down.

A newspaper reported that three people were struck by lightning while walking toward a dumpster in the parking lot of an apartment complex. Witnesses claim that lightning ricocheted off the dumpster and hit the three people (2 men and one woman). They were all taken to the hospital with minor injuries.

WASHTENAW COUNTY

Emergency management reported 9 inch diameter tree limbs blown down.

Washtenaw County
Manchester
22 1550EST
Thunderstorm Wind (G50)

Washtenaw County
Manchester
22 1600EST
Thunderstorm Wind (G50)

Saginaw County
Chesaning
22 1615EST
Thunderstorm Wind (G50)

Tuscola County
Reese
22 1615EST
Hail(0.75)

Washtenaw County
Saline
22 1630EST
127K
Lightning

A newspaper reported that a lightning strike traveled through the ductwork of four furnaces in the same neighborhood. This started a fire in the basement of each home. Three of the homes suffered only minor damage, but the fire got into the drywall of the fourth home and caused more substantial damage.

Washtenaw County
Saline
22 1630EST
30K
Thunderstorm Wind (G55)

A newspaper reported that 5 utility poles were blown down in thunderstorm winds along US-12 in Saline. Three of the poles came down onto moving cars. No injuries were reported.

Livingston County
Howell
22 1645EST
Thunderstorm Wind (G52)

Livingston County Central Dispatch reported several trees blown down onto power lines.

Washtenaw County
Ann Arbor
22 1649EST
Hail(1.00)

Wayne County
5 W Westland
22 1650EST
50K
Thunderstorm Wind (G52)

The media reported damage to a garage and car from thunderstorm winds.

Wayne County
Garden City
22 1651EST
10K
Thunderstorm Wind (G52)

A newspaper reported that a large tree blew over onto a car in thunderstorm winds. The paper also reported numerous tree limbs and power lines down.

Sanilac County
Peck
22 1652EST
Thunderstorm Wind (G50)

Sanilac County Central Dispatch reported several large trees down and blocking a road.

Tuscola County
1 N Kingston
22 1652EST
Thunderstorm Wind (G50)

Tuscola County Central Dispatch reported several large trees blown down.
Storm Data and Unusual Weather Phenomena

MICHIGAN, East

Tuscola County
Kingston 22 1652EST 0 0 Thunderstorm Wind (G52)
Trained spotters reported several trees blown down.

Livingston County
Howell 22 1700EST 0 0 Thunderstorm Wind (G52)
The newspaper reported that thunderstorm winds uprooted an 80 foot willow tree.

Oakland County
3 NE Farmington 22 1700EST 0 0 Thunderstorm Wind (G50)
Trained spotters reported 10 inch diameter tree limbs blown down at Thirteen Mile and Middlebelt Roads in Farmington Hills.

Oakland County
4 E Holly 22 1727EST 0 0 Thunderstorm Wind (G50)
Trained spotters reported numerous large tree limbs blown down at Dixie Highway and Grange Hall Road.

Oakland County
Rose Center 22 1727EST 0 0 Thunderstorm Wind (G50)
Trained spotters reported several large tree limbs blown down.

Lapeer County
2 SW Imlay City 22 1730EST 0 0 25K Lightning
A newspaper reported that a house was struck by lightning and caught fire. The damage was reportedly confined to one bedroom and its contents.

Wayne County
Livonia 22 1730EST 0 0 Thunderstorm Wind (G52)
Law enforcement reported several large trees blown down.

Wayne County
1 S Northville 22 1730EST 0 0 Thunderstorm Wind (G50)
The Northville Township fire department reported an 18 inch diameter tree blown down.

Lapeer County
Almont 22 1735EST 0 0 Thunderstorm Wind (G52)
Law enforcement reported several large tree branches blown down.

St. Clair County
Algonac 22 1800EST 0 0 Thunderstorm Wind (G50)
A newspaper reported that several trees and power lines were blown down in thunderstorm winds.

St. Clair County
Marine City 22 1800EST 0 0 Thunderstorm Wind (G50)
A newspaper reported that several trees and power lines were blown down in thunderstorm winds.

Washtenaw County
Ypsilanti 22 1815EST 0 0 Thunderstorm Wind (G50)
The general public reported several large trees blown down.

Wayne County
Westland 22 1850EST 0 0 5K Thunderstorm Wind (G50)
Trained spotters reported power lines and utility poles blown down at Wayne and Cherry Hill roads. A newspaper also reported that a large tree had fallen onto a house near Cherry Hill and Carlson roads. Only minor damage was reported.

Thunderstorms developed in a very warm and humid airmass ahead of an approaching cold front. Thunderstorms developed during the late morning hours around Adrian and then quickly moved northeast and affected the metro Detroit region. These storms dissipated early in the afternoon. However storms redeveloped across western and central Lower Michigan by mid afternoon. These storms then moved into eastern Michigan. The storms continued through the afternoon and much of the evening hours. Severe wind gusts were associated with many of these storms. The most widespread thunderstorm activity occurred across Washtenaw and Wayne counties where thunderstorms repeatedly move through during much of the day. Thousands of power outages were reported throughout eastern Michigan.

Huron County
3 W Bad Axe 28 0455EST 0 0 Thunderstorm Wind (G50)
A spotter reported several large tree limbs blown down.

Huron County
Bad Axe 28 0615EST 0 0 300K Lightning
A newspaper reported that lightning struck a meat packing plant and started a fire, causing serious damage.

A newspaper reported that lightning struck a telephone line, knocking power out to thousands of Midland County residents.

Law enforcement reported several large trees blown down.

Spotters reported several large trees and tree limbs down.

A newspaper reported that a home in Armada Township was struck by lightning and caught on fire.

Trained spotters reported a brief tornado touchdown 2 miles west of New Haven. A National Weather Service storm survey confirmed tree damage consistent with an F0 tornado.

Law enforcement reported several large trees down near Algonac State Park.

Algonac city police reported several large tree limbs blown down.

A newspaper reported that a large tree was blown over in thunderstorms winds and landed next to an apartment building, tearing the electrical service box from the building.

Scattered thunderstorms occurred very early in the morning on the 28th around Saginaw Bay. These storms laid out an outflow boundary. This boundary focused the development of additional thunderstorms later in the morning. High temperatures and humidity provided enough instability for some of these storms to become severe. The strongest storms developed near the border of Oakland and Lapeer counties. These storms evolved into a supercell as they moved into Macomb county. This supercell caused considerable wind damage and even spawned a short-lived tornado.

A spotter reported several 4 inch diameter tree limbs blown down.

A cold front moved through eastern Lower Michigan during the late afternoon and early evening hours. Showers and thunderstorms developed ahead of this front. An isolated storm in Huron county caused some wind damage. The other thunderstorms across the region remained below severe levels.

A newspaper reported that a large tree was blown over in thunderstorms winds and landed next to an apartment building, tearing the electrical service box from the building.

Law Enforcement reported large tree limbs down west of Hillsdale.

Emergency management reported large trees down near Moscow.

St. Clair County
2 N Algonac
28 1327EST
Law enforcement reported several large trees down near Algonac State Park.

St. Clair County
Algonac
28 1327EST
Algonac city police reported several large tree limbs blown down.

St. Clair County
Port Huron
28 1329EST
A newspaper reported that a large tree was blown over in thunderstorms winds and landed next to an apartment building, tearing the electrical service box from the building.

A cold front moved through eastern Lower Michigan during the late afternoon and early evening hours. Showers and thunderstorms developed ahead of this front. An isolated storm in Huron county caused some wind damage. The other thunderstorms across the region remained below severe levels.

MICHIGAN, Extreme Southwest

Hillsdale County
6 W Hillsdale
22 1530EST
Law Enforcement reported large tree limbs down west of Hillsdale.

Hillsdale County
1 NW Moscow
22 1746EST
Emergency management reported large trees down near Moscow.
MICHIGAN, Extreme Southwest

Hillsdale County
- 4 W Reading
  - Date: 22
  - Time: 1746EST
  - Character of Storm: Thunderstorm Wind
  - Damage: 1K
  - Notes: Emergency management reported a barn was blown down west of Reading.

Branch County
- Bronson
  - Date: 27
  - Time: 1940EST
  - Damage: 0
  - Notes: Law enforcement reported trees down in Bronson.

Coldwater
- Date: 27
- Time: 1955EST
- Damage: 0
- Notes: Law enforcement reported trees down in Coldwater.

Hillsdale County
- Jonesville
  - Date: 27
  - Time: 2105EST
  - Damage: 0
  - Notes: Emergency management reported power lines down in Jonesville.

MICHIGAN, North

Antrim County
- Elk Rapids
  - Date: 21
  - Time: 0545EST
  - Damage: 0
  - Notes: Scattered trees and power lines down.

Charlevoix County
- Charlevoix
  - Date: 21
  - Time: 0555EST
  - Damage: 0
  - Notes: Numerous 12-15 inch trees down.

Otsego County
- Countywide
  - Date: 21
  - Time: 0630EST
  - Damage: 0
  - Notes: Scattered trees down. An area of thunderstorms moved into northwest Lower Michigan during the morning hours on the 21st. The winds associated with these storms downed numerous trees and power lines.

Mackinac County
- Curtis
  - Date: 21
  - Time: 1855EST
  - Damage: 0
  - Notes: Numerous trees down.

Mackinac County
- 2 S St Ignace
  - Date: 21
  - Time: 1945EST
  - Damage: 0
  - Notes: Thunderstorm Wind (G60)

Presque Isle County
- 2 S Rogers City
  - Date: 21
  - Time: 2045EST
  - Damage: 0
  - Notes: Numerous trees down. A line of thunderstorms moved across eastern Upper and far northern Lower Michigan during the evening hours on the 21st. The wind gusts associated these storms downed trees across a few locales.

Ogemaw County
- 4 W West Branch
  - Date: 28
  - Time: 0320EST
  - Damage: 0
  - Notes: Hail(0.88)

Ogemaw County
- 8 E West Branch
  - Date: 28
  - Time: 0325EST
  - Damage: 0
  - Notes: Tree down at Ogemaw County Fairgrounds

Ogemaw County
- Prescott
  - Date: 28
  - Time: 0335EST
  - Damage: 0
  - Notes: Trees down.

Iosco County
- Tawas City
  - Date: 28
  - Time: 0405EST
  - Damage: 0
  - Notes: Thunderstorm Wind (G50)

Arenac County
- 5 NE Au Gres
  - Date: 28
  - Time: 0410EST
  - Damage: 0
  - Notes: Thunderstorm Wind (G50)

A cluster of thunderstorms moved across a portion of northeast Lower Michigan during the overnight hours on the 28th. The wind gusts associated with these thunderstorms downed numerous trees and power lines.
## Storm Data and Unusual Weather Phenomena

**July 2002**

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Numerous trees down.

A line of severe thunderstorms moved across much of northern Lower Michigan during the late evening hours on the 30th and the overnight hours on the 31st. The wind gusts associated with these storms downed many trees and power lines, especially across northwest Lower Michigan.

Several trees down.

Scattered thunderstorms produced isolated reports of severe hail and wind damage across northeast Lower Michigan during the late afternoon and evening hours of the 31st.

Penny sized hail was reported.

A cold front pushed across Upper Michigan during the evening of July 2, triggering thunderstorms over the Upper Peninsula. One of the storms over Schoolcraft County produced penny sized hail.

Penny sized hail was reported.

Numerous trees were blown down.

Two foot diameter tree blown down.

Two inch hail was reported.

Two inch diameter tree branches were broken off.

Several large trees and power lines were blown down.

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>
<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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Storm Data and Unusual Weather Phenomena

### July 2002

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<th>Path Length (Miles)</th>
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<td>One to two inch diameter tree branches were broken off. A cold front moving across Michigan's Upper Peninsula on July 21 interacted with a moist and unstable airmass to set off thunderstorms during the late afternoon and evening. Some of the storms produced large hail, high winds and heavy rain.</td>
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<td>Three to four inch diameter tree branches were broken off.</td>
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<td>One to two inch diameter tree branches were broken off.</td>
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<td>One to two inch diameter tree branches were broken off. A cold front moving across the Upper Peninsula of Michigan on July 27 triggered thunderstorms during the late afternoon and evening. Some of the storms produced high winds that knocked down trees and power lines.</td>
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<td>Several trees were blow down across Range Lind Road and Birch Creek Road.</td>
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<td>One and three quarter inch diameter hail was reported.</td>
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<td>A moist and unstable airmass over Upper Michigan interacted with a swiftly moving cold front to produce severe thunderstorms during the night of July 30th. Large hail and damaging winds were reported over the south and west portions of the Upper Peninsula.</td>
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<td>Hail the size of a fifty-cent piece was reported.</td>
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<td>Quarter sized hail was reported.</td>
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<td>8 SE La Branch</td>
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<td>A tree 10 inches in diameter was blown down.</td>
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<td>Rock</td>
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<td>Tree branches 3 to 5 inched in diameter were broken off.</td>
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<td>Mass</td>
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<td>An apple tree 1 foot in diameter was blown down.</td>
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</table>
Numerous trees and power lines were blown down across the Iron Mountain area.

Trees and branches were blown down.

Numerous trees 1 to 2 feet in diameter were blown down.

A tree was blown down across the road.

One to two inch diameter branches were broken off.

Numerous small trees were blown down.

Three to four inch diameter trees were blown down across River Road.

A spotter estimated 65 mph wind gusts.

Numerous trees and power lines were blown down.

A 10 inch diameter tree branch was broken off.

Power lines and 10 to 12 inch diameter trees were blown down.

Storm Data and Unusual Weather Phenomena

July 2002

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<th>Location</th>
<th>Date</th>
<th>Local/Standard</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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A few trees were blown down in Hard and several more trees were blown down across Oceana county, which also knocked down several power lines.

Several trees were blown down by thunderstorm wind gusts near Three Mile and Lincoln Lake roads.

Several large maple trees had limbs of up to one foot in diameter blown down by thunderstorm wind gusts.

Severe thunderstorms were set off over Michigan's Upper Peninsula on July 31st as warm, moist air over the area interacted with a warm front that moved north from Wisconsin. Large hail and damaging winds were reported.

Hail of up to seven eighths of an inch was reported by spotters with a thunderstorm in Olivet.
Numerous eight to ten inch diameter tree limbs were blown down and several fell down on and blocked roads in the Clark Lake area.

An isolated severe thunderstorm during the morning in Jackson produced several high wind gusts, causing several large trees and limbs to be blown down. One large tree was blown down on a home on the west side of Jackson, and another report of a tree blown down onto a home in Jackson was received as well. Another large tree limb was blown down and blocked a road.

A severe thunderstorm blew down several trees in Delton (Barry county). Severe thunderstorm wind gusts also destroyed a 14 by 30 foot outbuilding, blew down numerous tree limbs, and damaged the siding and broke windows of a home near Lake Odessa (Ionia county).

A severe thunderstorm struck a campground and mobile home park along Swan Lake in Cheshire Township (southern Allegan county). Wind damage occurred over an area 300 yards wide and one eighth of a mile long. Extensive tree damage occurred in the Fort Custer area and the roof was blown off a firing range shelter. Maximum winds were estimated at 80 m.p.h.

After the tornado ended, downburst damage continued for several more miles in Calhoun county. A parked tractor trailer was blown over and some minor roof damage occurred northwest of Battle Creek. The Battle Creek Airport recorded a wind gust to 66 m.p.h. More damage occurred southeast of Battle Creek near the Marshall area, where a garage door was blown in and large tree limbs were blown down along 15 mile road west of Marshall. Top winds with the downburst were estimated at 70 m.p.h.

A severe thunderstorm struck a campground and mobile home park along Swan Lake in Cheshire Township (southern Allegan county). Wind damage occurred over an area 300 yards wide and one eighth of a mile long. Trees were blown down onto mobile homes and small boats were blown out of the lake. Two minor injuries occurred. Top winds with the downburst were estimated at 70 m.p.h.

A F1 tornado touched down about one mile east of Augusta (Kalamazoo county). The tornado passed through Ft. Custer (Calhoun county) and continued to move through western Calhoun county, ending near Hill Brady road, about one mile northwest of the Battle Creek airport. The damage path was approximately 800 yards wide and path length was 3 miles long. Extensive tree damage occurred in the Fort Custer area and the roof was blown off a firing range shelter. Maximum winds were estimated at 80 m.p.h.

After the tornado ended, downburst damage continued for several more miles in Calhoun county. A parked tractor trailer was blown over and some minor roof damage occurred northwest of Battle Creek. The Battle Creek Airport recorded a wind gust to 66 m.p.h. More damage occurred southeast of Battle Creek near the Marshall area, where a garage door was blown in and large tree limbs were blown down along 15 mile road west of Marshall. Top winds with the downburst were estimated at 70 m.p.h.

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## Storm Data and Unusual Weather Phenomena

### MINNESOTA, Central and South Central

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time(s)</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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<td>6S Richmond to 5S Cold Spg</td>
<td></td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td>Scattered trees down in a six mile long path.</td>
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<td>5NW Sauk Centre</td>
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<td>7NE Alexandria</td>
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<td>Few trees down across power lines.</td>
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<td></td>
<td>Rainfall of 4.5 to 6.5 inches fell across the northern tier of townships in Todd County, from 2 miles north of Hewitt to 4 miles southeast of Staples. Six roads were washed out in Villard township, southeast of Staples.</td>
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<td></td>
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<td>Numerous streets flooded.</td>
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<td>0</td>
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<td>Thunderstorm Wind (G65)</td>
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<td>8N Milaca to 8NNE Milaca</td>
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<td></td>
<td>Hundreds of trees down. Two barns and one shed down.</td>
</tr>
<tr>
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<td>08</td>
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<td></td>
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<td>Flash Flood</td>
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<tr>
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<td></td>
<td>0400CST</td>
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<td>Four to seven inches rain fell on the southeast side of Mille Lacs Lake, generally from Isle to 8N Isle. Water came over Highway 27 as well as the intersection of Highways 47 and 18. Two township roads were washed out. Water surrounded cabins along Cedar Creek, and along Peterson's Creek near Hunter Point.</td>
</tr>
<tr>
<td>Kanabec County</td>
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<td>Flash Flood</td>
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<td>0500CST</td>
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<td></td>
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<td>Five to six inches of rain in the pre-dawn hours washed out several township roads.</td>
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<td>The Snake River and tributaries overflowed their banks in the wake of heavy rain early on July 8 (see corresponding entry for Kanabec County Flash Flood). Several county and township roads were flooded, sandbagging was necessary along Riverside Avenue in Mora, and Peninsula drive collapsed near the east side of Knife Lake.</td>
</tr>
<tr>
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<td>Hail(0.88)</td>
</tr>
</tbody>
</table>

July 2002
MINNESOTA, Central and South Central

Pope County
Glenwood
10 0250 CST
Few trees and power poles down.

Pope County
5 NE Glenwood
10 0315 CST
Shed down, irrigator blown over.

Stearns County
St Joseph to St Cloud
10 0600 CST
Several dozen trees down along a 7 mile long path.

Stearns County
Countywide
10 0500 CST
Street flooding was widespread in Glenwood, due to four to six quick inches of rain. The most significant flooding occurred in the northeast portion of Glenwood, washing out some alleys and ripping the blacktop off some city streets. The Glenwood Public Works Director measured five inches of rain in one half hour, beginning around 5 am LST.

Stearns County
Countywide
10 0530 CST
Four to eight inches of rain fell in less than four hours, producing widespread flooding across all but the southwest portion of Stearns County. Several feet of water covered some roads from Sauk Centre to St. Cloud, with many roads closed. Several dozen cars stalled in St. Cloud when people attempted to drive into deep water, and about nine people had to be rescued from vehicles driven into deep water in viaducts. Numerous creeks overflowed their banks. Water was at least two feet deep in several dozen homes and businesses. A house was flooded in Sartell.

Douglas County
Southeast Portion
10 0600 CST
Rainfall totaled 3.5 to 7 inches across southeastern Douglas County, producing water over numerous roads from Alexandria to Osakis. County Road 31 between Osakis and Nelson was closed, but no roads were washed out. Numerous basements were flooded.

Morrison County
Countywide
10 0630 CST
Rainfall totaling 3.5 to 7 inches was common across all but the far northwest corner of Morrison County. Two to three feet of water covered roads in Bowlsus, and several township roads were flooded across the southern and eastern half of the county.

Todd County
South Portion
10 0630 CST
Four to six inches rain produced water over a number of roads, prompting their closure. State Highways 27 and 28 southwest of Long Prairie were flooded, as were several county and township roads. Some streets were flooded in Long Prairie.

Benton County
Countywide
10 0830 CST
Seven to ten inches of rain was common across a large swath of Benton County, from the northwest corner to the southeast. About 30 roads were closed, including State Highway 23 in Foley. A few township roads were washed out. About 3500 sandbags were used in the Foley area. Some basements were flooded. Local agriculture officials estimate that about 10% of the sellable crops in Benton County were destroyed. Numerous creeks in Alberta township (Gilman to Rum River area) rose out of their banks.

Sherburne County
Countywide
10 0830 CST
Four to seven inches of rain fell, producing water over numerous roads. State highway 169 was closed between Princeton and Zimmerman, and County Road 31 was closed west of Santiago. Several dozen basements were flooded.

Kanabec County
Countywide
10 0900 CST
Five to ten inches fell across central Kanabec County, prompting the closure of County Road 17 east of Mora. Several township roads were closed, and a number of basements flooded.
MINNESOTA, Central and South Central

Mille Lacs County
Countywide 10 0900CST 1330CST 0 0 25K Flash Flood
Four to nine inches rain resulted in several creeks out of their banks, and approximately two dozen county and township roads were closed across the entire county. State Highway 95 was closed west of Princeton. Several dozen basements were reported flooded with several feet of water.

Wright County
Northeast Portion 10 1000CST 1330CST 0 0 Flash Flood
Four to six inches rain fell across the northeast half of the county. Two to three feet of water flowed across roads near Rockford, prompting the closure of county and township roads. Water pushed debris across County Road 20 near Rockford.

Anoka County
Southwest Portion 10 1100CST 1330CST 0 0 Flash Flood
One to two feet water over a number of roads from Fridley to Ramsey. Several businesses along University Avenue in Fridley had their basements flooded. A mudslide occurred near Highway 10 and Round Lake Blvd in Coon Rapids.

Hennepin County
North Portion 10 1100CST 1330CST 0 0 Flash Flood
Three to four inches rain fell in less than four hours, producing water over several roads, including five feet deep at the intersection of State Highway 100 and County Road 81 in Robbinsdale.

Martin County
7.1 WSW Trimont to 7 WSW Trimont 10 1910CST 1911CST 0.1 50 0 0 Tornado (F0)
Tornado briefly crossed into Martin County from Jackson County (see corresponding entry for southwest Minnesota). Tornado remained over open country before dissipating.

Steele County
1 W Medford to Medford 18 1201CST 1207CST 1 50 0 0 Tornado (F1)
Damage to a farm north of Owatonna near I-35. Minor damage to farmstead. Corn flattened.

Mille Lacs County
3 NW Vineland 20 2215CST 0 0 Thunderstorm Wind (G50)
Tree down.

Mille Lacs County
5 NNW Isle 20 2235CST 0 0 5K Thunderstorm Wind (G55)
Trees down, including one on a trailer.

Stevens County
Chokio to Morris 21 0510CST 0525CST 0 0 50K Thunderstorm Wind (G70)M
Ten mile long path of wind damage. Numerous trees down, one on a van. Silos, several sheds, and grain bins down. Maximum wind gust of 78 knots measured at Morris Airport.

Pope County
Cyrus 21 0530CST 0 0 Thunderstorm Wind (G55)
Trees down.

Douglas County
2 E Alexandria 21 0609CST 0 0 Thunderstorm Wind (G52)
Trees down.

Todd County
Long Prairie 21 0635CST 0 0 Thunderstorm Wind (G52)
Few trees toppled.

Anoka County
South Central Portion 21 1530CST 1630CST 0 0 Flash Flood
Heavy rain. Street flooding in Columbia Heights.

Martin County
Welcome 21 1650CST 0 0 Thunderstorm Wind (G61)M
# Storm Data and Unusual Weather Phenomena

**July 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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<tbody>
<tr>
<td>MINNESOTA, Central and South Central</td>
<td></td>
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<tr>
<td>Corn fields flattened, few trees down.</td>
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<td>Heavy rain produced street flooding with water two to three feet deep. Several streets barricaded.</td>
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<td>Several trees down.</td>
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<tr>
<td>Four to seven inch swath of rain from Wells to Kiester. Two to three feet of water in the city of Wells. County Road #2 closed southeast of Kiester.</td>
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<td>Several streets blocked by high water.</td>
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<td>Street flooding.</td>
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<td>Large branches down.</td>
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<td>Damage to trees, sheds, grain bins, and crops.</td>
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<td>Large tree branch fell on roof of house.</td>
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### Storm Data and Unusual Weather Phenomena

**MINNESOTA, Central and South Central**

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<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>Empty grain bin blown 1/4 mile. Trees down.</td>
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<td>Numerous trees down in campground. Tree on vehicle.</td>
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<td>Ground turned white.</td>
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<td>4 W Sartell to St Stephen</td>
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<td>Numerous trees down, including some that were 15 inches in diameter. Several trees were toppled across County Road 2 and at the intersection of County roads 2 and 4. Some trees fell onto sheds.</td>
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<td>Numerous trees down. Outbuildings down.</td>
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<td>Roof off house. House was also moved 5 feet off its foundation. Trees down. Sheds and pole barns down.</td>
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<td>Power lines and trees down.</td>
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</table>
### Storm Data and Unusual Weather Phenomena

**MINNESOTA, Central and South 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>
<th>Number of Persons Killed</th>
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<td>Trees down. Boats blown into each other on Rush Lake.</td>
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<td>Scattered trees down.</td>
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<td>Numerous trees down, including one on a car. Barn and shed also downed.</td>
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<td>Few trees down.</td>
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## Storm Data and Unusual Weather Phenomena

July 2002

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<th>Number of Persons Killed</th>
<th>Injured</th>
<th>Estimated Damage Property</th>
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<th>Character of Storm</th>
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### MINNESOTA, Central and South Central

- Numerous trees down, including some on vehicles and garages. Corn flattened.
- Touched down in field. Corn flattened.
- One mile wide swath of hail. Crops damaged.
- Few trees toppled. Corn and beans flattened.
- Street flooding in Coon Rapids, Spring Lake Park and Blaine. Numerous vehicles stranded in water.
- Several trees and power lines down along Interstate 35.
- Numerous trees down, chimney toppled.
### MINNESOTA, Central and South Central

**Ramsey County**

Vadnais Hgts to White Bear Lake

<table>
<thead>
<tr>
<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>Character of Storm</th>
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<td></td>
<td>1900CST</td>
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Nearly three inches rain in two hours led to street flooding. Water rose to more than four feet deep under a railroad bridge, trapping four people in two vehicles. They were rescued by Fire and Rescue personnel. A clogged drain backed up and flooded the south campus of White Bear Lake High School.

**Goodhue County**

Zumbrota

<table>
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Few trees down.

**Hennepin County**

Rockford

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Trailer park flooded.

### MINNESOTA, Northeast

**Koochiching County**

5 E International Falls

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<th>Time</th>
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**Crow Wing County**

15 E Brainerd

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<th>Damage</th>
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168
Storm Data and Unusual Weather Phenomena

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<td>Roads were damaged by high water.</td>
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<td>Hail(0.88)</td>
</tr>
<tr>
<td>2 N Hallock</td>
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<td>0</td>
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<td>Hail(0.75)</td>
</tr>
<tr>
<td>6 E Lancaster</td>
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<td>Hail(0.88)</td>
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<tr>
<td>2 E Warroad</td>
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## Storm Data and Unusual Weather Phenomena

### MINNESOTA, Northwest

<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>Roseau County</td>
<td>01</td>
<td>1145 CST</td>
<td></td>
<td></td>
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<td>0</td>
<td>Hail (1.75)</td>
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<td>01</td>
<td>1145 CST</td>
<td>0.2</td>
<td>25</td>
<td>0</td>
<td>0</td>
<td>Tornado (F0)</td>
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<td></td>
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<tr>
<td>Lake Of The Woods County</td>
<td>10 N Williams to 11 NNE Williams</td>
<td>01 1205 CST to 1210 CST</td>
<td></td>
<td></td>
<td>0</td>
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<td>Hail (1.00)</td>
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<td></td>
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<td>07</td>
<td>0804 CST</td>
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<td>0</td>
<td>0</td>
<td>5K Thunderstorm Wind</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 SW Menahga</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Strong winds blew down numerous trees around Spirit Lake. One property owner reported that his dock, boat lift, and pontoon were flipped completely over.</td>
<td></td>
</tr>
<tr>
<td>Beltrami County</td>
<td>07</td>
<td>1300 CST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>0.10K Thunderstorm Wind</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 N Waskish</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Tree limbs were blown down.</td>
<td></td>
</tr>
<tr>
<td>Lake Of The Woods County</td>
<td>07</td>
<td>1345 CST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>Hail (0.75)</td>
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</tr>
<tr>
<td>20 S Baudette</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Trees were blown down.</td>
<td></td>
</tr>
<tr>
<td>Otter Tail County</td>
<td>07</td>
<td>1300 CST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>0.20K Thunderstorm Wind</td>
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</tr>
<tr>
<td>3 N Wrightstown</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Becker County</td>
<td>07</td>
<td>1500 CST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>10K Lightning</td>
<td>Lightning struck a house and ignited a fire in the attic.</td>
<td></td>
</tr>
<tr>
<td>Detroit Lakes</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Otter Tail County</td>
<td>07</td>
<td>1630 CST</td>
<td></td>
<td></td>
<td>0</td>
<td>1</td>
<td>Lightning</td>
<td>Lightning struck a 33 year-old man was struck by lightning while riding his motorcycle westbound on U.S. Highway 10. His wife, who was also on the motorcycle, was uninjured.</td>
<td></td>
</tr>
<tr>
<td>7 NW Perham</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
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</tr>
<tr>
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<td>1810 CST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>0.10K Thunderstorm Wind</td>
<td></td>
<td></td>
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<tr>
<td>Aldrich</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Tree branches were blown down.</td>
<td></td>
</tr>
<tr>
<td>Wadena County</td>
<td>07</td>
<td>1810 CST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>1K Thunderstorm Wind</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Verndale</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Large tree branches were blown down in the wind.</td>
<td></td>
</tr>
<tr>
<td>Wilkin County</td>
<td>07</td>
<td>1910 CST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>Lightning</td>
<td>Lightning struck a power pole snapping two electrical lines. Residents lost power for an hour.</td>
<td></td>
</tr>
<tr>
<td>Breckenridge</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wilkin County</td>
<td>07</td>
<td>1910 CST</td>
<td>0.2</td>
<td>25</td>
<td>0</td>
<td>0</td>
<td>Tornado (F0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 N Foxhome</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A brief touchdown was reported.</td>
<td></td>
</tr>
<tr>
<td>Clay County</td>
<td>07</td>
<td>1915 CST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>5K Lightning</td>
<td>A bolt of lightning hit Hawley's main power hub on the southeast edge of town.</td>
<td></td>
</tr>
<tr>
<td>Hawley</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Grant County</td>
<td>07</td>
<td>2130 CST</td>
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<td>0</td>
<td>0</td>
<td>10K Thunderstorm Wind</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 S Herman</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

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### Storms

- **Wind Damage:**
  - Strong winds blew down numerous trees around Spirit Lake.
  - Large tree branches were blown down in the wind.
  - Lightning struck a house and ignited a fire in the attic.
  - Lightning struck a power pole snapping two electrical lines.

- **Hail Damage:**
  - Hail (1.00) in Wadena County
  - Hail (0.88) in Lake Of The Woods County

- **Tornado:**
  - Tornado (F0) in Roseau County

- **Lightning:**
  - Lightning hit Hawley's main power hub on the southeast edge of town.
  - Lightning struck a 33 year-old man while riding his motorcycle westbound on U.S. Highway 10.

---

*July 2002*
### Storm Data and Unusual Weather Phenomena

#### MINNESOTA, Northwest

Strong winds hit a farmstead just south of Herman. A man who was in the house at the time said his ears popped. Ten to twelve trees were destroyed and some shingles on the house were lifted. A trampoline in the yard was twisted and the garage door was buckled.

**Polk County**

- **East Grand Forks**
  - **Date:** 09 2305CST
  - **Number of People:** 0
  - **Property Damage:** Flash Flood
  - **Estimated Damage:**

**Polk County**

- **Fisher**
  - **Date:** 09 2305CST
  - **Number of People:** 0
  - **Property Damage:** Flash Flood
  - **Estimated Damage:**

- **Date:** 10 0105CST
  - **Number of People:** 0
  - **Property Damage:**

Street flooding was reported.

**Polk County**

- **Fisher**
  - **Date:** 09 2305CST
  - **Number of People:** 0
  - **Property Damage:** Flash Flood
  - **Estimated Damage:**

**Polk County**

- **Date:** 10 0105CST
  - **Number of People:** 0
  - **Property Damage:** Flash Flood

11.6 inches of rain were measured at a MN DOT RWIS station near Fisher. Numerous farm fields were flooded with water. Some county roads were also closed due to high water.

**Polk County**

- **Ada**
  - **Date:** 10 0040CST
  - **Number of People:** 0
  - **Property Damage:** Flash Flood

Street flooding was reported in Ada.

**Polk County**

- **Hendrum**
  - **Date:** 10 0100CST
  - **Number of People:** 0
  - **Property Damage:** Flash Flood

Water was reported to be over highway 75.

**MNZ001**

- **West Polk**
  - **Date:** 10 0108CST
  - **Number of People:** 0
  - **Property Damage:** Flood

Sections of cropland in the southwest portion of Polk county remained under lakes of water for days. Many acres of cropland were a total loss.

**Otter Tail County**

- **Fergus Falls**
  - **Date:** 10 1000CST
  - **Number of People:** 0
  - **Property Damage:** Flash Flood

Several county roads were covered with water and the westbound lane of Interstate 94 was also covered.

**Clay County**

- **Barnesville**
  - **Date:** 10 1030CST
  - **Number of People:** 0
  - **Property Damage:** Flash Flood

A highway underpass was flooded.

**Wilkin County**

- **4 N Foxhome**
  - **Date:** 10 1200CST
  - **Number of People:** 0
  - **Property Damage:** Flash Flood

Four township roads were under water and one was washed out.

**Otter Tail County**

- **3 N Pelican Rapids**
  - **Date:** 17 1325CST
  - **Number of People:** 0
  - **Property Damage:** Hail(1.00)

**Mahnomen County**

- **1 W Mahnomen**
  - **Date:** 20 0715CST
  - **Number of People:** 0
  - **Property Damage:** Hail(0.75)

**Wilkin County**

- **6 W Campbell**
  - **Date:** 21 0510CST
  - **Number of People:** 0
  - **Property Damage:** 15K Thunderstorm Wind (G78)

A garage was blown down.

**Wilkin County**

- **4 W Campbell**
  - **Date:** 21 0515CST
  - **Number of People:** 0
  - **Property Damage:** 25K Thunderstorm Wind (G87)

A small aircraft hangar was blown down with the debris scattered over one-half mile away.

**Wilkin County**

- **Campbell**
  - **Date:** 21 0520CST
  - **Number of People:** 0
  - **Property Damage:** 20K Thunderstorm Wind (G78)

Widespread tree and roof damage was observed. Trees were uprooted and power lines were blown down.

**Wilkin County**

- **Tenney**
  - **Date:** 21 0526CST
  - **Number of People:** 0
  - **Property Damage:** 10K Thunderstorm Wind (G66)

A MNDOT RWIS site measured a 76 mph wind gust.

**Wilkin County**

- **5 E Tenney**
  - **Date:** 21 0530CST
  - **Number of People:** 0
  - **Property Damage:** Thunderstorm Wind
**MINNESOTA, Northwest**

A power pole was snapped and trees damaged.

**Grant County**

**Wendell**

<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>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wendell</strong></td>
<td>21</td>
<td>0535 CST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0K</td>
<td>Thunderstorm Wind (G70)</td>
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</table>

Large tree limbs were blown down.

**Otter Tail County**

**6 SW Fergus Falls**

<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>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fergus Falls</strong></td>
<td>21</td>
<td>0540 CST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>5K</td>
<td>Thunderstorm Wind</td>
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Small outbuildings were destroyed.

**Otter Tail County**

**Battle Lake**

<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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<tbody>
<tr>
<td><strong>Battle Lake</strong></td>
<td>21</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1K</td>
<td>Thunderstorm Wind</td>
</tr>
</tbody>
</table>

Numerous trees were blown down, several falling on garages.

**Otter Tail County**

**Henning**

<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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<th>Number of Persons Injured</th>
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<th>Character of Storm</th>
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<td><strong>Henning</strong></td>
<td>21</td>
<td>0610 CST</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>10K</td>
<td>Thunderstorm Wind</td>
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</table>

Power poles were blown down by the strong wind. A tree also fell on the city playground equipment, causing a total loss. A new church being constructed was also flattened.

**Wadena County**

**2 NNW Verndale**

<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>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Verndale</strong></td>
<td>21</td>
<td>0628 CST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G52)M</td>
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</table>

A MNDOT RWIS site measured a 60 mph wind gust.

**Wadena County**

**Wadena**

<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>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wadena</strong></td>
<td>21</td>
<td>0715 CST</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>5K</td>
<td>Thunderstorm Wind</td>
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</table>

Power lines were blown down.

**Clay County**

**1 NE Hawley**

<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>Character of Storm</th>
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<td><strong>Hawley</strong></td>
<td>25</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>Hail(0.88)</td>
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**Becker County**

**7 N Lake Park**

<table>
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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>
</tr>
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<tbody>
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<td><strong>Lake Park</strong></td>
<td>25</td>
<td>0100 CST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Hail(1.00)</td>
<td></td>
</tr>
</tbody>
</table>

**Becker County**

**3 N Audubon**

<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>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Audubon</strong></td>
<td>25</td>
<td>0145 CST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Hail(0.88)</td>
<td></td>
</tr>
</tbody>
</table>

**Roseau County**

**12 NW Greenbush**

<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>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Greenbush</strong></td>
<td>25</td>
<td>1604 CST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Hail(1.00)</td>
<td></td>
</tr>
</tbody>
</table>

**Polk County**

**2 S Erskine**

<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>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Erskine</strong></td>
<td>25</td>
<td>1700 CST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Hail(0.75)</td>
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</table>

**Polk County**

**1 E Winger**

<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>
</tr>
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<tbody>
<tr>
<td><strong>Winger</strong></td>
<td>25</td>
<td>1745 CST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Hail(1.75)</td>
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</table>

**Polk County**

**2 N Winger to 2 SE Winger**

<table>
<thead>
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<th>Time Local/Standard</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>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Winger</strong></td>
<td>25</td>
<td>1745 CST</td>
<td>3</td>
<td>50</td>
<td>0</td>
<td>0</td>
<td>20K</td>
<td>Tornado (F1)</td>
</tr>
</tbody>
</table>

A metal shed roof was damaged and a steel bin roof was torn off 2 miles north of Winger. The path was intermittent.

**Clay County**

**2 SE Averill**

<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>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Averill</strong></td>
<td>25</td>
<td>1750 CST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Hail(0.88)</td>
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**Mahnomen County**

**7 E Bejou**

<table>
<thead>
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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>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bejou</strong></td>
<td>25</td>
<td>1755 CST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Hail(0.88)</td>
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**Mahnomen County**

**3 NE Bejou to 3 E Bejou**

<table>
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<th>Time Local/Standard</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>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bejou</strong></td>
<td>25</td>
<td>1758 CST</td>
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<td>0</td>
<td>0</td>
<td>20K</td>
<td>Tornado (F1)</td>
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</table>

Numerous trees were uprooted.

**Clay County**

**2 SW Hawley**

<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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</thead>
<tbody>
<tr>
<td><strong>Hawley</strong></td>
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<td>1820 CST</td>
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<td>0</td>
<td>0</td>
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**Mahnomen County**

**11 E Waubun**

<table>
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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>
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<th>Character of Storm</th>
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</thead>
<tbody>
<tr>
<td><strong>Waubun</strong></td>
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<td>1830 CST</td>
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<td>0</td>
<td>0</td>
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**Becker County**

**20 E White Earth**

<table>
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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>Character of Storm</th>
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<td><strong>White Earth</strong></td>
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<td>Hail(0.75)</td>
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</table>
## Storm Data and Unusual Weather Phenomena

### MINNESOTA, Northwest

<table>
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<tr>
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<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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</thead>
<tbody>
<tr>
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<td>0430CST</td>
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<td>0</td>
<td>0.20K Thunderstorm Wind</td>
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<td>0455CST</td>
<td>0</td>
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<td>0</td>
<td>Thunderstorm Wind (G51)</td>
<td></td>
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<tr>
<td>Otter Tail County</td>
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<td>0520CST</td>
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<td>Thunderstorm Wind</td>
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### MINNESOTA, Southeast

<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>Character of Storm</th>
</tr>
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<tbody>
<tr>
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<td>18</td>
<td>1243CST</td>
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<td>0</td>
<td>Hail(0.75)</td>
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<tr>
<td>Dodge County</td>
<td>18</td>
<td>1245CST 1250CST</td>
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<td>0</td>
<td>0</td>
<td>Funnel Cloud</td>
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<tr>
<td>Fillmore County</td>
<td>18</td>
<td>1405CST</td>
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<td>0</td>
<td>0</td>
<td>1K 2K Thunderstorm Wind (G52)</td>
<td></td>
</tr>
<tr>
<td>Storm spotters reported dime size hail and also sighted a funnel cloud, which did not touch down. In the Preston area (Fillmore County), winds estimated at 60 mph damaged corn fields and toppled some large trees.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Olmsted County</td>
<td>21</td>
<td>1645CST</td>
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<td>0</td>
<td>Hail(0.75)</td>
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<tr>
<td>Olmsted County</td>
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<td>1648CST</td>
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<td>0</td>
<td>0</td>
<td>Hail(0.75)</td>
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<tr>
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<td>1648CST</td>
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<td>0</td>
<td>Thunderstorm Wind (G52)</td>
<td></td>
</tr>
<tr>
<td>Olmsted County</td>
<td>21</td>
<td>1739CST</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G50)</td>
<td></td>
</tr>
<tr>
<td>Storm spotters and the public reported dime size hail, while a wind gust of 58 mph was recorded at the Rochester International airport.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>Mower County</td>
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<td>Thunderstorm Wind (G50)</td>
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<tr>
<td>Mower County</td>
<td>27</td>
<td>1825CST 1831CST</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>Funnel Cloud</td>
<td></td>
</tr>
</tbody>
</table>
MINNESOTA, Southeast

**Wabasha County, Lake City**

- Storm spotters estimated wind gusts of 58 mph and also reported a funnel cloud near the Minnesota/Iowa border.
- Wind gusts of 60 to 70 mph knocked down numerous trees and power lines. A tree, which was three feet in diameter, fell on a car near Chatfield (Olmsted County).

**Olmsted County, Byron**

- Two inches of rain in less than an hour caused several streets to become flooded.
- Wind gusts of 60 to 70 mph knocked down numerous trees and power lines. A tree, which was three feet in diameter, fell on a car near Chatfield (Olmsted County).

**Olmsted County, Rochester**

- 3 W Rochester
- 5 N Rochester
- Eyota
- Kasson
- Dodge County, Mantorville
- 1 N Chatfield
- Winona County, Lewiston
- Nobles County, Whalan

**Fillmore County, Whalan**

- Wind gusts of 60 to 70 mph knocked down numerous trees and power lines. A tree, which was three feet in diameter, fell on a car near Chatfield (Olmsted County).

**MINNESOTA, Southwest**

**Jackson County**

- 10 NE Jackson
- 3 W Lakefield
- 3 N Jackson

**Nobles County**

- Worthington
- 3 E Worthington
- 10 W Jackson
- 4 SE Lakefield
- (Otg)Worthington Arp
- Jackson

### Storm Data and Unusual Weather Phenomena

#### Location, Date, Character of Storm

<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 Crop</th>
<th>Character of Storm</th>
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<tr>
<td>Jul 2002</td>
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<tr>
<td><strong>MINNESOTA, Southeast</strong></td>
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<tr>
<td>Wabasha County, Lake City</td>
<td>28</td>
<td>1930 CST</td>
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<td>Flash Flood</td>
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<tr>
<td>Olmsted County, Byron</td>
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<td>1620 CST</td>
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<td>2.5K</td>
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<td>Thunderstorm Wind (G57)</td>
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<td>Thunderstorm Wind (G51)</td>
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<td><strong>MINNESOTA, Southwest</strong></td>
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<td>Hail(1.75)</td>
<td></td>
<td>Large hail covered the ground and knocked small branches off of trees. The hail caused crop damage, but the amount of crop damage was not known.</td>
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<tr>
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## Storm Data and Unusual Weather Phenomena

**July 2002**

<table>
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<th>Location</th>
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<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>
</tr>
</thead>
</table>

**MINNESOTA, Southwest**

**Pipestone County**

- **Pipestone**
  - 28 1407 CST
  - Thunderstorm Wind (G52)

**Lincoln County**

- **8 W Lake Benton**
  - 28 1410 CST
  - Thunderstorm winds caused an unknown amount of tree damage.

**Lincoln County**

- **Lake Benton**
  - 28 1413 CST
  - Large hail caused damage to windows, vehicles, and crops. The amount of crop damage was not known.

**Lyon County**

- **Florence**
  - 28 1419 CST
  - Large hail caused damage to vehicles, windows, and crops. The amount of damage was not known.

**Lincoln County**

- **7 SW Tyler**
  - 28 1423 CST
  - Large hail caused damage to vehicles, windows, and crops. The amount of damage was not known.

**Pipestone County**

- **5 W Holland**
  - 28 1426 CST
  - Hail (0.75)

**Lyon County**

- **5 SW Balaton**
  - 28 1428 CST
  - Hail (1.75)

**Murray County**

- **7 NE Current Lake**
  - 28 1445 CST
  - Hail (0.75)

**Murray County**

- **7 NE Current Lake**
  - 28 1445 CST
  - Thunderstorm Wind (G52)

**Lyon County**

- **Tracy**
  - 28 1445 CST
  - Hail (0.75)

**Lyon County**

- **1 S Tracy**
  - 28 1455 CST
  - Large hail caused an unknown amount of crop damage.

**Murray County**

- **8 N Slaton**
  - 28 1458 CST
  - Hail (1.75)

**Rock County**

- **1 S Jasper**
  - 28 1500 CST
  - Thunderstorm Wind (G61)

**Lyon County**

- **Tracy**
  - 28 1504 CST
  - Hail (0.88)

**Lyon County**

- **Tracy**
  - 28 1509 CST
  - Thunderstorm Wind (G61)

**Cottonwood County**

- **12 NE Delft**
  - 28 1518 CST
  - Hail (0.88)

**Cottonwood County**

- **3 N Westbrook**
  - 28 1518 CST
  - Thunderstorm winds blew down tree branches.

**Cottonwood County**

- **Storden**
  - 28 1535 CST
  - Hail (0.75)

**Lyon County**

- **Tracy**
  - 30 1428 CST
  - Hail (1.00)

**Cottonwood County**

- **6 NE Jeffers**
  - 30 1847 CST
  - Hail (0.88)
Storm Data and Unusual Weather Phenomena

July 2002

MINNESOTA, West

NONE REPORTED.

MINNESOTA, West Central

Traverse County

2 S Collis
07 1808CST 0 0 Hail(0.75)

7 E Browns Vly
10 0018CST 0 0 Thunderstorm Wind (G52)

Big Stone County

Ortonville
21 0430CST 0 0 Thunderstorm Wind (G61)

Several large tree limbs were downed in Ortonville.

Traverse County

8 NW Collis
21 0445CST 0 0 Thunderstorm Wind (G52)

Traverse County

7 NE Wheaton
31 0420CST 0 0 Thunderstorm Wind (G52)

Traverse County

3 S Tintah
31 0440CST 0 0 Thunderstorm Wind (G52)

MISSISSIPPI, Central

Lamar County

3 NW Lumberton
01 1435CST 0 0 1K Thunderstorm Wind
Several trees were blown down along State Road 13.

Jones County

Countwide
01 1930CST 0 0 1K Thunderstorm Wind
Several trees were blown down across the county between 19:10 and 19:45.

Rankin County

Countwide
01 1953CST 0 0 1K Thunderstorm Wind
Several trees were blown down at the intersection of St. John's Road and Florence-Byrum Road.

Madison County

Madison
01 2230CST 0 0 1K Thunderstorm Wind
Several powerlines were blown down in the Northbay Subdivision.

2 SE Hebron
02 1815CST 0 0 2K Thunderstorm Wind
Several powerlines were blown down around the Big Creek Wildlife Preserve.

Madison County

Canton
05 1550CST 0 0 Hail(1.00)

Madison County

3 SW Canton
05 1550CST 0 0 1K Thunderstorm Wind
A few trees were blown down on State Road 22.

Hinds County

8 NW Jackson
05 1615CST 0 0 2K Thunderstorm Wind
Several trees were blown down at the intersection of US Highway 49 and West County Line Road, as well as at the intersection of Cynthia Road and US Highway 49.

Hinds County

Clinton
05 1635CST 0 0 1K Thunderstorm Wind
Numerous small limbs and several powerlines were blown down, resulting in numerous power outages across the area.

Hinds County

Lawrence County
14 SW Monticello
07 1405CST 0 0 Hail(0.75)
Numerous trees were blown down at the intersection of State Road 569 and US 98.

Trees were blown down east of State Road 15 and south of US 80.

Numerous trees and powerlines were blown down between Bay Springs and Montrose between 14:28 and 14:40. Some trees blocked area roads.

Dime- to quarter-sized hail covered the ground between Stringer and Montrose.

Several large limbs were blown down.

Several large limbs were blown down.

Several large limbs were blown down.

Several trees were blown down across the road.

Several trees were blown down in the area. One tree fell on a house, resulting in minor damage.

Several trees were blown down across the road.

Golfball-sized hail occurred for at least 10 minutes and covered the ground on State Road 13 north and Columbia.

Several large limbs were blown down on US 84 between Monticello and Silver Creek.

Seven trees and three cars were overturned in the area.

Marion County 10 N Columbia 07 1647CST 0 0 25K Thunderstorm Wind

Marion County 10 N Columbia 07 1647CST 0 0 6K Thunderstorm Wind

Marion County 10 N Columbia 07 1650CST 0 0 Hail(1.75)
### Storm Data and Unusual Weather Phenomena

#### July 2002

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<th>Path Width (Yards)</th>
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### Storm Data and Unusual Weather Phenomena

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**MISSISSIPPI, Central**

A few trees were blown down.

- **Pelahatchie**
  - Rankin County
  - Date: 11
  - Time: 1500CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Thunderstorm Wind (G60)^M

- **3 W Forest**
  - Rankin County
  - Date: 11
  - Time: 1500CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Thunderstorm Wind

- **Pulaski**
  - Scott County
  - Date: 11
  - Time: 1500CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Thunderstorm Wind

- **2 E Possumneek**
  - Attala County
  - Date: 11
  - Time: 1630CST, 1650CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Flash Flood

- **1 S Greenwood**
  - Leflore County
  - Date: 12
  - Time: 1253CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Thunderstorm Wind

- **1400CST**
  - Leflore County
  - Date: 12
  - Time: 1400CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Thunderstorm Wind

- **1330CST**
  - Leflore County
  - Date: 12
  - Time: 1330CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Thunderstorm Wind

- **1420CST**
  - Oktibbeha County
  - Date: 12
  - Time: 1420CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Thunderstorm Wind

- **1500CST**
  - Scott County
  - Date: 12
  - Time: 1500CST
  - Path Length: 0
  - Path Width: 0
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  - Number of Persons Injured: 0
  - Character of Storm: Thunderstorm Wind

- **1540CST**
  - Rankin County
  - Date: 12
  - Time: 1540CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Thunderstorm Wind

- **1620CST**
  - Rankin County
  - Date: 12
  - Time: 1620CST
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  - Path Width: 0
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  - Number of Persons Injured: 0
  - Character of Storm: Thunderstorm Wind

- **1630CST**
  - Rankin County
  - Date: 12
  - Time: 1630CST
  - Path Length: 0
  - Path Width: 0
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  - Number of Persons Injured: 0
  - Character of Storm: Thunderstorm Wind

- **1700CST**
  - Marion County
  - Date: 12
  - Time: 1700CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Thunderstorm Wind

- **1705CST**
  - Marion County
  - Date: 12
  - Time: 1705CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Thunderstorm Wind

- **1820CST**
  - Jasper County
  - Date: 12
  - Time: 1820CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Thunderstorm Wind

- **1845CST**
  - Jones County
  - Date: 12
  - Time: 1845CST
  - Path Length: 0
  - Path Width: 0
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Character of Storm: Thunderstorm Wind

Numerous trees were blown down around the city.

Numerous streets were flooded in the city.

Numerous trees were blown down in the southwestern Jasper County.

Numerous trees were blown down between Laurel and Soso, along State Road 28.
### Storm Data and Unusual Weather Phenomena

#### Location: Mississippi, Central

<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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<td>1K</td>
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<td>Thunderstorm Wind</td>
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</tbody>
</table>
Several trees were blown down in Quitman, as well as on County Road 3541 near Stonewall.

Copiah County
5 SW Hazlehurst
Several trees and large limbs were blown down across an area road.

Lawrence County
Countywide
Numerous trees were blown down across the county.

Carroll County
5 W Black Hawk
Several trees were blown down in the area.

Carroll County
5 SE Carrollton
A large tree was blown across State Road 35.

Lauderdale County
Meridian
Large limbs were blown down on powerlines in the city.

Lamar County
Sumrall
Numerous trees and powerlines were blown down in the city.

Winston County
10 SW Louisville
Several trees and powerlines were blown down in the city.

Winston County
Countywide
Numerous trees were blown down in the area.

Lawrence County
Countywide
Numerous trees were blown down throughout the county.

Lincoln County
Countywide
Numerous trees were blown down across the county.

Jasper County
Stringer
Hail(1.00)

Marion County
5 W Columbia
Hail(1.75)

Neshoba County
9 N Philadelphia
A couple of trees were blown down in the area.

Lincoln County
Countywide
Thunderstorm winds produced a 4 to 5 mile wide path of destruction across the county. Trees were blown down, a mobile home was destroyed, and minor damage occurred to several homes.

Lincoln County
5 W Bogue Chitto
Numerous trees were blown down in the area. One tree fell on a house and resulted in minor damage.

Leake County
Countywide
Numerous trees were blown down across the county. In addition, a roof was also blown off a chicken house.

Lowndes County
Columbus
A few trees were blown down on powerlines in the city.
## Storm Data and Unusual Weather Phenomena

### July 2002

**Location**

**MISSISSIPPI, Central**

<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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<td>1 W Cameron</td>
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<td>Numerous trees were blown down in the area.</td>
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<td>Thunderstorm winds flipped and destroyed two planes, as well as a storage shed. Three other planes and a jeep also suffered damage when the hangar door was blown inside the building. A private company's radar and an employee's recreational vehicle also received damage.</td>
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## Storm Data and Unusual Weather Phenomena

### July 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>Estimated Damage Crops</th>
<th>Character of Storm</th>
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183
### Storm Data and Unusual Weather Phenomena

**MISSISSIPPI, Central**

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**July 2002**

184
Gusty winds along an outflow boundary knocked down a few trees on the west side of Tupelo. One of the trees fell on a house.

Several streets were flooded as over 2 inches of rain fell in about 40 minutes.

One road was under water.

A few streets were flooded.

A few trees were uprooted.

A radio tower and several trees were blown down.

A few trees were knocked down.

Some trees were blown down.

Some trees and power lines were knocked down.

Several large tree limbs were blown down.
### Storm Data and Unusual Weather Phenomena

#### July 2002

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<th>Location</th>
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**MISSISSIPPI, North**

Several power lines were blown down.

**MISSISSIPPI, South**

Thunderstorm winds blew down power lines and about a dozen trees. One tree fell on a mobile home causing minor damage.

Several trees were knocked down along Highway 98 near Interstate 55.

A few trees were blown down along Interstate 59.

A lightning strike started a fire in a shed that spread to an adjacent house.

Thunderstorm winds knocked a tree down on a power line.

Thunderstorm winds blew down several trees and damaged a mobile home.

Thunderstorm winds blew down a tree and knocked out power to about 2,500 homes.

**MISSISSIPPI, Southeast**

Several trees were blown down between Sand Hill and Neely as thunderstorms moved across the area.

Lightning struck a barn and killed four cows that were in it. Several electrical appliances were also damaged in a home near the barn.

Lightning struck a barn and killed four cows that were in it. Several electrical appliances were also damaged in a home near the barn.
MISSISSIPPI, Southeast

Stone County
Wiggins
12 1815CST 1817CST 0 0 10K Thunderstorm Wind (G50)
Trees and power lines were blown down in Wiggins as thunderstorms moved through the area.

Perry County
Belleville
19 1845CST 1847CST 0 0 10K Thunderstorm Wind (G50)
Trees and power lines were blown down by high winds from a thunderstorm near Belleville.

Greene County
Sand Hill
21 1215CST 1217CST 0 0 10K Thunderstorm Wind (G50)
Trees were blown down by high winds from a thunderstorm just south of Sand Hill.

Perry County
Beaumont
21 1240CST 1242CST 0 0 10K Thunderstorm Wind (G50)
Trees and power lines were blown down by high winds from a thunderstorm south of Beaumont near Lake Perry.

MISSOURI, East

MOZ063
St. Louis
01 1700CST 1700CST 1 0 Excessive Heat
A 73 year old woman died in her home in Velda Village of hyperthermia. The home had an air conditioner but it did not work. The high temperature that day and the previous day was 94. F73PH

MOZ063
St. Louis
02 1800CST 1800CST 1 0 Excessive Heat
An 85 year old man died in his home in Maryland Heights of hyperthermia. The home had no air conditioner, no fans and the windows were all shut. M85PH

Iron County
Ironton
03 1300CST 1300CST 0 0 Thunderstorm Wind (G50)
Thunderstorm wind gusts downed some trees and power lines around Ironton. About 1800 people lost electricity from Pilot Knob to Arcadia.

Lincoln County
2 S Moscow Mills
03 1400CST 1400CST 0 0 Thunderstorm Wind (G60)
Storm spotters reported isolated damage from thunderstorm winds south of Moscow Mills. Two utility poles were damaged, roof shingles blown off, a garage door damaged, and a flag pole was bent over.

Jefferson County
De Soto
03 1435CST 1435CST 0 0 Lightning

Jefferson County
De Soto
03 1435CST 1435CST 0 0 10K Thunderstorm Wind (G55)
An isolated pulse thunderstorm caused wind damage in the De Soto area. Some trees and power lines were blown down resulting in about 3200 people losing electric power. A tree fell through the roof of a 2 story house causing about $10,000 in damage. A man was hit by lightning near De Soto and luckily received only minor injuries.

Boone County
Columbia
06 1700CST 1700CST 0 0 Thunderstorm Wind (G55)
Thunderstorm wind gusts caused scattered damage in the Columbia area. Trees and power lines were reported down on the southwest side of town and on the north side of the University of Missouri campus. Downed trees destroyed a vehicle and damaged one home.
### Storm Data and Unusual Weather Phenomena

**July 2002**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Path Length (Miles)</th>
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High temperatures climbed into the middle to upper 90's with Heat Indices from 105 to 110 degrees. There was one death in St. Louis County in which heat was listed as a contributing cause. F69PH

A large cottonwood tree was blown down onto a home just west of Gasconade. The home suffered moderate roof damage.

The County Sheriff reported trees and power lines down in Louisiana.

The County Sheriff reported trees and power lines down blocking County Road UU.

Thunderstorm winds downed trees and power lines and caused some structural damage. A grocery store, the newspaper office, a fire station and California City Hall all suffered roof damage from the wind gusts. A 20 foot section of the City Hall roof was blown off resulting in considerable water damage inside.

Amateur radio spotters reported trees down in Tipton. The roof of a historic building in town was also blown off. The stone cornice of the building fell off at a later date because of the damage.

The County Sheriff reported trees down blocking Highway H.

Thunderstorm wind gusts caused scattered damage across Jefferson City. Trees and power lines were down, especially in the northwest and southwest parts of town. At least 2500 customers lost electric power. The Jefferson City Fire Department responded to 22 storm related calls, primarily downed trees and power lines. Some homes and vehicles were damaged by the downed trees and limbs.

Thunderstorm wind gusts destroyed a double wide mobile home that was being transported on Highway 54 near Brazito.

The County Sheriff reported trees and power lines down in Wardsville.

Thunderstorm winds caused scattered damage in Russellville. A boat and trailer were blown about 150 yards before the boats trailer finally plunged into the wall of a home. A garage was damaged and numerous trees and power lines were down.

The County Sheriff reported trees and power lines down. The wind also caused havoc at the County Youth Fair which had just started. A couple of large tents were blown down and electricity was knocked out in the area.

Thunderstorm wind gusts caused scattered damage in Wentzville. Power lines were blown down on the eastbound lanes of
MISSOURI, East

Interstate 70 near Pearce Boulevard. The roof of a car wash was blown off and numerous trees and power lines were reported down.

Franklin County
Washington

10 1305CST 0 0 Thunderstorm Wind (G55)

Franklin County
Gray Summit

10 1310CST 0 0 Thunderstorm Wind (G55)

The County Sheriff reported wind damage across the northern parts of Franklin County. Trees, power lines, and a traffic signal were downed in Washington. Power lines were reported down in Gray Summit.

Gasconade County
Owensville

10 1320CST 0 0 Thunderstorm Wind (G55)

Gasconade County
2 S Owensville

10 1325CST 0 0 Thunderstorm Wind (G55)

The County Sheriff reported trees down in Owensville. Trees were also blown down blocking Highway 19 just south of Owensville.

Franklin County
Sullivan

10 1330CST 0 0 Thunderstorm Wind (G52)

The County Sheriff reported power lines down in Sullivan.

Crawford County
Cuba

10 1340CST 0 0 Thunderstorm Wind (G55)

Crawford County
Leasburg

10 1340CST 0 0 Thunderstorm Wind (G55)

Crawford County
Steelville

10 1345CST 0 0 100K Thunderstorm Wind (G55)

The County Sheriff reported scattered damage across Crawford County. Trees were down in Cuba blocking some city streets. Near Leasburg, trees were down blocking the intersection of Routes HH and MM. Trees were downed in Steelville damaging a couple of homes and vehicles.

St. Louis County
3 SW Ballwin

10 1345CST 0 0 Thunderstorm Wind (G55)

St. Louis County
Eureka

10 1350CST 0 0 15K Thunderstorm Wind (G55)

The St. Louis County Police reported trees blown down onto Highway 109 in Wildwood and Eureka. A vehicle at a hotel parking lot in Eureka was also damaged by a downed tree.

Jefferson County
High Ridge

10 1347CST 0 0 Thunderstorm Wind (G55)

Jefferson County
Cedar Hill

10 1350CST 0 0 Thunderstorm Wind (G55)

Jefferson County
Hillsboro

10 1400CST 0 0 Lightning

Jefferson County
Hillsboro

10 1400CST 0 0 Thunderstorm Wind (G55)

Jefferson County
Festus

10 1410CST 0 0 Thunderstorm Wind (G55)

Thunderstorm wind gusts caused scattered damage across the north half of Jefferson County. One home suffered roof damage in High Ridge. Numerous trees were down in the Cedar Hill area and trees were also down on Highway 21 in Hillsboro. Numerous trees were also reported down in the Festus area. A lightning strike knocked out power to the Jefferson County Emergency Dispatch Center in Hillsboro. The power was out for about 10 minutes until authorities activated a backup system.

St. Francois County
Desloge

10 1415CST 0 0 Thunderstorm Wind (G60)

St. Francois County
Bonne Terre

10 1425CST 0 0 Thunderstorm Wind (G60)

The County Sheriff reported numerous trees and power lines down in the Desloge and Bonne Terre areas. Some homes and vehicles were damaged by the downed trees.
MISSOURI, East

Reynolds County
7 NW Reynolds
The County Sheriff reported trees down blocking Highway 72 northwest of Reynolds and just east of Bunker.

Ste. Genevieve County
Bloomsdale
Ste. Genevieve County
Weingarten
Ste. Genevieve County
Ste Genevieve
Ste. Genevieve County
Coffman
The County Sheriff reported trees down across much of Ste. Genevieve County. Roads and streets were blocked by downed trees in and around Bloomsdale, Weingarten, Ste. Genevieve, and Coffman.

Franklin County
Berger
Thunderstorm wind gusts knocked down trees and power lines in the Berger area. Most of the damage was concentrated along Highway 100 from Berger to New Haven. About 3000 people lost electricity in the area.

Franklin County
New Haven
The County Sheriff reported wind damage in New Haven. Trees, power lines, and some street signs were blown down.

Franklin County
Krakow
Storm spotters reported several small trees blown down by thunderstorm wind gusts.

MOZ064
St. Louis (C)
The St. Louis City Coroner reported the death of a 45 year old man from heat related causes.

St. Louis County
Hazelwood
A pulse thunderstorm caused isolated wind damage in Hazelwood. Large tree limbs broke downing some power lines and damaging vehicles. About 1800 people lost electric power in the area.

Crawford County
Cuba
A reported 4 inches of rain in about an hour caused flash flooding in Cuba. The Sheriff Department reported the Highway 19 railroad underpass had at least 2 feet of water in it and had to be closed. Another area that flooded had 2 propane tanks break loose and float away. The heavy rain caused problems at the County Fair that had started the day before. The entire evenings planned events had to be cancelled. The roof of the main stage collapsed due to the rain. One man was injured with a broken arm when the roof collapsed.


Monroe County
Florida
Amateur Radio spotters reported trees down on Route U.

Marion County
Palmyra
Thunderstorm wind gusts downed numerous trees and power lines.
## Storm Data and Unusual Weather Phenomena

### July 2002

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<th>Location</th>
<th>Date</th>
<th>Time</th>
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*Amateur radio spotters reported several trees and power lines down in the south part of town.*

*The County Sheriff reported several trees and power lines down in the south part of town.*

*The County Sheriff reported some large trees and large tree limbs down just north of Holts Summit.*

*Amateur radio spotters reported several trees and power lines down on the west side of town.*

*Amateur radio spotters reported several trees and power lines down in Wildwood.*

*The County Sheriff reported a couple of billboards blown down at Interstate 44 and Highway 100.*

*Amateur radio spotters reported several trees and power lines down in St. Clair.*

*Amateur radio spotters reported trees and power lines down in Overland and Jennings.*

*Amateur radio spotters reported a house damaged by a downed tree in south St. Louis.*

*The County Sheriff reported trees and power lines down around Otto.*

*Amateur radio spotters reported trees and power lines down.*
Storm Data and Unusual Weather Phenomena

MISSOURI, East


Excessive Heat

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MISSOURI, Lower

NONE REPORTED.

MISSOURI, Northeast

STORM SPOTTERS REPORTED 3/4 INCH HAIL SOUTH OF HURDLAND.

MISSOURI, Northwest

ANDREW COUNTY

2 W Avenue City

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LINN COUNTY

LACLEDE

<table>
<thead>
<tr>
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<th>Time</th>
<th>Path Length</th>
<th>Path Width</th>
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<th>Character of Storm</th>
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<td>Thunderstorm Wind (G52)</td>
<td>Power lines down and roof damage reported in Laclede.</td>
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HARRISON COUNTY

ONE REPORTED.

GRUNDY COUNTY

4 N Edinburg

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<tr>
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<td>Minor roof damage reported.</td>
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<table>
<thead>
<tr>
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<th>Time</th>
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<td>Time/Local/Standard</td>
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### Storm Data and Unusual Weather Phenomena

#### MISSOURI, Northwest

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<tr>
<th>Location</th>
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<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>
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#### MISSOURI, Southeast

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<th>Location</th>
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<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 Property</th>
<th>Character of Storm</th>
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## Notes
- **²**: Damage includes roofing being peeled off a number of buildings, including part of the county courthouse.
- **₃**: Damage includes trees being uprooted, roads and highways flooded, and law enforcement personnel reporting up to one foot of water over Interstate 55 near mile marker 138.
- **₄**: Damage includes low water crossings being flooded north of Marble Hill.
MISSOURI, Southeast

Large tree limbs were blown down.

Ripley County
Briar to Gatewood
31 0315CST
0915CST
0 1 25K
Flash Flood
Major flash flooding of creeks occurred in southwest Ripley County. In Gatewood, water from the West Fork Creek forced the evacuation of a residence and flooded Highway 142. A vehicle was swept into the creek, and both occupants were rescued. One of the occupants was moderately injured. Another water rescue was conducted when a vehicle was swept into a creek on Highway P. The motorist was uninjured. Water and debris was over Highway 160 near Briar and just west of Highway C. A few roads were damaged by erosion.

MISSOURI, Southwest

Taney County
Branson
02 1330CST
0 0 0
Thunderstorm Wind (G50)
A billboard sign and a few trees were blown down near Branson.

Taney County
3 W Branson
02 1345CST
0 0 0
Thunderstorm Wind (G50)
Trees were blown down in the Fall Creek area.

Christian County
Nixa
02 1345CST
0 0 0
Thunderstorm Wind (G50)
Several trees were blown down around Nixa.

Stone County
Silver Dollar City
02 1350CST
0 0 0
Thunderstorm Wind (G50)
A large tree was blown down at the Silver Dollar City amusement park.

Greene County
Springfield
02 1440CST
0 0 0
Thunderstorm Wind (G50)
Several trees and power lines were blown down around Springfield.

Greene County
Springfield
03 1620CST
1630CST
0 0 0
Thunderstorm Wind (G50)
A microburst moved across northern parts of Springfield. It downed numerous large trees and power lines.

Benton County
Zora
04 1245CST
1250CST
0 0 50K
Thunderstorm Wind (G62)
70 mph winds caused damage to a resort and marina near the Lake of the Ozarks. Two docks were capsized and several boats were thrown ashore. There was also extensive tree and property damage in the resort area.

Webster County
Niangua
06 1625CST
0 0 1.5K
Thunderstorm Wind (G50)
Sixty mph winds caused siding to be stripped off a home. There were other reports of large tree limbs blown down around the city.

Greene County
5 W Fair Grove
06 1645CST
0 0 0
Hail(0.75)

Miller County
Eldon
10 1241CST
0 0 10K
Thunderstorm Wind (G52)

Morgan County
Gravois Mills
10 1245CST
0 0 0
Thunderstorm Wind (G52)

Camden County
Macks Creek to Sunrise Beach
10 1247CST
1255CST
0 0 0
Thunderstorm Wind (G52)

Maries County
Belle
10 1300CST
0 0 10K
Thunderstorm Wind (G52)

Pulaski County
Dixon to Waynesville
10 1327CST
1335CST
0 0 10K
Thunderstorm Wind (G52)
A squall line with estimated winds of 60 to 70 mph moved through portions of the Lake of the Ozarks producing damage from Gravois Mills, eastward to Eldon, then south across Sunrise Beach, Dixon and Salem. Numerous trees were uprooted along with power lines blown down. Near Rolla, a large tree fell on a car and destroyed it. No injuries were reported.

A line of severe thunderstorms produced localized wind gusts of 60 mph across portions of southwest Missouri. There were several reports of downed trees and power lines across this area, however no structural damage or injuries were reported.

Nearly three inches of rain in a short period of time caused damage to area homes.

Excessive rainfall of three inches in less than one hour caused Highway Z east of Climax Springs to flooded and remain impassable for a few hours.

Rainfall amounts in excess of three inches fell over portions of Howell County producing flash flooding around West Plains, and along Highway 142 between Moody and Lanton. Numerous roads in West Plains were flooded for over three hours.

Large trees were blown down north of Thornfield.

Hail (1.00) at Humansville, Polk County (06/20/02)

Hail (0.88) at Butterfield, Taney County (06/20/02)

Hail (1.75) at Collins, St. Clair County (06/20/02)

Hail (1.00) at Forsyth, Taney County (06/20/02)

Hail (0.88) at Vichy, McDonnell County (06/20/02)

Hail (0.75) at Vichy, Maries County (06/20/02)
MISSOURI, Southwest

McDonald County
Southwest Portion
18 1600CST 1900CST 0 0 0 Flash Flood
Rainfall amounts of two to three inches fell in southwest McDonald County near Noel in less than two hours. Major street flooding was reported around Noel.

Maries County
North Portion
18 1600CST 1900CST 0 0 0 Flash Flood
Three to four inches of rain fell over northern and eastern portions of Maries County in less than two hours. It caused Highway Z near Belle to closed.

Morgan County
Stover
18 1805CST 0 0 0 Hail(0.75)

Shannon County
South Portion
19 0730CST 1100CST 0 0 0 Flash Flood

Howell County
North Portion
19 1010CST 1330CST 0 0 0 Flash Flood

Texas County
South Portion
19 1130CST 1330CST 0 0 0 Flash Flood
Two to four inches of rain fell over southern Shannon, southern Texas, and northern Howell County during the morning of July 19th. Numerous low water crossings were flooded across southern Shannon County, plus Highway 17 near Mountain View was closed due to the flooding. Major street flooding was also reported in Cabool.

Webster County
Seymour
19 1340CST 0 0 0 Hail(0.75)
Nickel size hail was also reported near Fordland.

Laclede County
1 N Phillipsburg
19 1345CST 0 0 0 Hail(0.75)

Polk County
Half Way
19 1430CST 0 0 0 Hail(0.75)

Christian County
Nixa
19 1520CST 0 0 0 Hail(0.88)
A large tree was also blown down in Nixa.

Greene County
Springfield Arpt to Willard
19 1521CST 1530CST 0 0 15K Thunderstorm Wind (G57)\(^{\text{a}}\)
65 mph winds were measured by the National Weather Service Office in Springfield, Missouri. An off-duty National Weather Service employee reported large trees uprooted and roof damage to many homes two miles northwest of the National Weather Service Office. A local storm spotter also reported numerous trees downed around Willard.

Polk County
Eudora
19 1535CST 0 0 0 Hail(0.75)
Large trees were also blown down near Aldrich.

Green County
Bois D Arc to 5 W Bois D Arc
19 1535CST 1550CST 0 0 10K Thunderstorm Wind (G55)
60 to 65 mph winds caused damage around Bois D Arc. In addition to numerous trees and power poles blown down, roof damage was reported along with dime size hail.

St. Clair County
Lowry City to 3 SW Roscoe
19 1700CST 1710CST 0 0 10K Hail(1.75)
A barn was also blown down southwest of Lowry City with additional reports of dime to nickel size hail.

Vernon County
Nevada
22 1700CST 0 0 5K Thunderstorm Wind
Power lines and poles were blown down around Nevada. Dime size hail was also reported.

\(^{\text{a}}\) Estimated damage was not included in the National Weather Service's Storm Data database for these storms.
### Storm Data and Unusual Weather Phenomena

**July 2002**

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<thead>
<tr>
<th>Location</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>
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<th>Character of Storm</th>
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*A 15 year old male was riding his bike during the afternoon. He collapsed and die of heat stroke in Nevada. M15OU*
# Storm Data and Unusual Weather Phenomena

## MONTANA, Central

### Meagher County
- White Sulph Sprgs Arp
  - **Date:** 08/1410MST
  - **Time:** 1410 MST
  - **Length:** 0
  - **Width:** 0
  - **Hail:** 1.75
  - **Path:** (Miles)
  - **Width:** (Yards)
  - **Number of Persons:** 0
  - **Killed:** 0
  - **Injured:** 0
  - **Property DAMAGE:** 0
  - **Crops DAMAGE:** 0
  - **Character of Storm:** Hail (1.75)
  - Description: A severe thunderstorm produced 1.75 inch hail at White Sulphur Springs 33NW.

### Broadwater County
- Townsend
  - **Date:** 08/1420MST
  - **Time:** 1420 MST
  - **Length:** 0
  - **Width:** 0
  - **Hail:** 0.75
  - **Path:** (Miles)
  - **Width:** (Yards)
  - **Number of Persons:** 0
  - **Killed:** 0
  - **Injured:** 0
  - **Property DAMAGE:** 0
  - **Crops DAMAGE:** 0
  - **Character of Storm:** Hail (0.75)
  - Description: A severe thunderstorm produced 0.75 inch hail at Townsend 8E.

### Cascade County
- Neihart
  - **Date:** 08/1430MST
  - **Time:** 1430 MST
  - **Length:** 0
  - **Width:** 0
  - **Hail:**
  - **Path:**
  - **Width:**
  - **Number of Persons:** 0
  - **Killed:** 0
  - **Injured:** 0
  - **Property DAMAGE:** 0
  - **Crops DAMAGE:** 0
  - **Character of Storm:** Thunderstorm Wind (G87)
  - Description: A severe thunderstorm moved through the Neihart area during the mid afternoon hours on the 8th. This storm produced golf ball size hail, along with wind gusts up to 100 mph. The strong wind gusts were determined to be from a wet microburst. This microburst caused 6 homes to be severely damaged, numerous trees were uprooted in a half-mile stretch, along with downed power lines.

### Judith Basin County
- Stanford
  - **Date:** 08/1435MST
  - **Time:** 1435 MST
  - **Length:** 0
  - **Width:** 0
  - **Hail:** 1.00
  - **Path:** (Miles)
  - **Width:** (Yards)
  - **Number of Persons:** 0
  - **Killed:** 0
  - **Injured:** 0
  - **Property DAMAGE:** 0
  - **Crops DAMAGE:** 0
  - **Character of Storm:** Hail (1.00)
  - Description: A severe thunderstorm produced 1.00 inch hail at Stanford 6SW.

### Fergus County
- Hobson
  - **Date:** 08/1515MST
  - **Time:** 1515 MST
  - **Length:** 0
  - **Width:** 0
  - **Hail:** 2.00
  - **Path:** (Miles)
  - **Width:** (Yards)
  - **Number of Persons:** 0
  - **Killed:** 0
  - **Injured:** 0
  - **Property DAMAGE:** 0
  - **Crops DAMAGE:** 0
  - **Character of Storm:** Hail (2.00)
  - Description: A severe thunderstorm moved across the northern half of Fergus County during the late afternoon hours on the 8th. This storm produced a widespread area of one to two inch hail from Brooks to Roy, with wind gusts over 70 mph. When the storm was just north of Brooks, a tornado developed. This tornado was on the ground for several miles, but remained over rural areas of Fergus County. However, this tornado did hit three residences, causing damage to houses and several barns. A few mobile homes were also damaged and one grain elevator near Moulton was toppled.

### Glacier County
- Browning
  - **Date:** 14/0000MST
  - **Time:** 0000 MST
  - **Length:** 0
  - **Width:** 0
  - **Hail:**
  - **Path:**
  - **Width:**
  - **Number of Persons:** 0
  - **Killed:** 0
  - **Injured:** 0
  - **Property DAMAGE:** 0
  - **Crops DAMAGE:** 0
  - **Character of Storm:** Thunderstorm Wind (G69)
  - Description: A severe thunderstorm produced a wind gust between 70 and 80 mph near Browning. Numerous tepees and trailers were over turned at the camp ground.

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### Storm Data and Unusual Weather Phenomena

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<th>Location</th>
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**July 2002**

---

Notes:
- **Hail:** The size of hailstones that fell during a thunderstorm.
- **Path:** Length of the path over which the storm moved.
- **Number of Persons:** Total number of people affected by the storm.
- **Killed:** Number of people killed by the storm.
- **Injured:** Number of people injured by the storm.
- **Property DAMAGE:** Damage to property caused by the storm.
- **Crops DAMAGE:** Damage to crops caused by the storm.
- **Character of Storm:** Type of storm or weather phenomenon that occurred.
**MONTANA, Central**

**Glacier County**
- **Cutbank**: 14 0045MST
  - A severe thunderstorm produced a wind gust of 65 mph near Black Feet.

**Lewis And Clark County**
- **Helena**: 14 1640MST
  - A severe thunderstorm moved through the Helena area on the 14th. Hail generally ranged from 1 inch to 1.75 inches in diameter. Wind gusts between 60 and 70 mph were common throughout the Helena area. Numerous trees and power lines were knocked down.

**Lewis And Clark County**
- **Silver City**: 14 1655MST
  - A severe thunderstorm produced 0.75 inch hail and wind gusts to 60 mph at Silver City 2W.

**Broadwater County**
- **Townsend**: 14 1706MST
  - A severe thunderstorm produced an 82 mph wind gust at Canyon Ferry Lake near Townsend, and a 61 mph wind gust in the city of Townsend. Numerous trees and power lines were knocked down. Hail up to one quarter inch was reported.

**Cascade County**
- **Great Falls**: 14 1720MST
  - A severe thunderstorm produced a 66 mph wind gust at the NWS office in Great Falls. Hail up to 0.75 inches was reported just south of town. Numerous power lines were knocked down, and several trees were uprooted.

**Broadwater County**
- **Townsend**: 14 1730MST
  - A severe thunderstorm produced a 70 mph wind gust at Ginger. Winds were gusting to over 60 mph in the city of Townsend, with a few trees knocked down.

**Lewis And Clark County**
- **Helena**: 14 1735MST
  - A severe thunderstorm produced a 59 mph wind gust at Helena.

**Meagher County**
- **White Sulphr Spgs Arp**: 14 1735MST
  - A severe thunderstorm produced a 75 mph wind gust at White Sulphur Springs.

**Chouteau County**
- **Highwood**: 14 1800MST
  - A severe thunderstorm produced 0.75 inch hail and 45 mph winds at Highwood 7NE.

**Cascade County**
- **Great Falls**: 14 1810MST
  - A dry microburst produced a wind gust of 59 mph at the NWS office in Great Falls.

**Teton County**
- **Power**: 14 1825MST
  - A severe thunderstorm produced 1.00 inch hail and wind gusts to 40 mph near Power.

**Judith Basin County**
- **Stanford to Hobson**: 14 1856MST
  - A severe thunderstorm produced wind gusts to 70 mph between Stanford and Hobson.

**Fergus County**
- **Moore**: 14 1901MST
  - A severe thunderstorm produced a 70 mph wind gust and broke some tree limbs near Moore.

**Beaverhead County**
- **Wisdom**: 14 1915MST
  - A severe thunderstorm produced 1.00 inch near Wisdom.

**Fergus County**
- **Denton**: 14 1917MST
  - A severe thunderstorm produced a 72 mph wind gust at Denton 3E.

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**Table: Storm Data and Unusual Weather Phenomena**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Character of Storm</th>
<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
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<td>A severe thunderstorm moved through the Helena area on the 14th. Hail generally ranged from 1 inch to 1.75 inches in diameter. Wind gusts between 60 and 70 mph were common throughout the Helena area. Numerous trees and power lines were knocked down.</td>
<td>14 1640MST</td>
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</table>
A dry microburst moved through the Lewistown area during the evening hours on the 14th. Wide spread tree damage occurred, causing power to be knocked out and damaging vehicles.

A severe thunderstorm produced 0.25 inch hail and wind gusts to 100 mph as it moved through the city of Fort Benton. Wide spread tree damage occurred. The main power line to all of north-central Montana was blown down.

A severe thunderstorm produced a 70 mph wind gust at Hilger 3W. Tree limbs were knocked down and a water tank was blown over.

A severe thunderstorm produced a 60 mph wind gust near Roy.

A severe thunderstorm produced a 60 mph wind gust at Havre.

A severe thunderstorm produced 0.75 inch hail near Wisdom.

A severe thunderstorm produced an 82 mph wind gust at Fort Belknap.

A severe thunderstorm produced a 60 mph wind gust at Roy 18E.

A severe thunderstorm produced 0.75 inch hail at Valentine.

A severe thunderstorm produced 0.75 inch hail at Carter 8NW.

A severe thunderstorm produced a wind gust of 60 mph at Ulm 1S.

A severe thunderstorm produced 0.75 inch hail at Dillon 3N.
## Storm Data and Unusual Weather Phenomena

### MONTANA, Central

**Teton County**

- **Choteau**: 23 1615MST 0 0 0.88 inch hail
  - A severe thunderstorm produced 0.88 inch hail at Choteau 6N.

**Cascade County**

- **Ft Shaw**: 23 1705MST 0 0 70 mph wind gust
  - A severe thunderstorm produced a 70 mph wind gust and 0.50 inch hail near Ft Shaw.

- **Vaughn**: 23 1720MST 0 0 65 mph wind gust
  - A severe thunderstorm produced a 65 mph wind gust at Vaughn 3S.

- **Great Falls**: 23 1730MST 0 0 65 mph wind gust
  - A severe thunderstorm produced wind gusts between 60 and 65 mph throughout the city of Great Falls.

- **Belt**: 23 1800MST 0 0 65 mph wind gust
  - A severe thunderstorm produced a 65 mph wind gust at Belt.

**Lewis And Clark County**

- **Canyon Creek**: 23 1815MST 0 0 65 mph wind gust
  - A severe thunderstorm produced a 65 mph wind gust and 0.50 inch hail near Canyon Creek.

**Chouteau County**

- **Highwood**: 23 1820MST 0 0 60 mph wind gust
  - A severe thunderstorm produced a 60 mph wind gust near Highwood.

**Judith Basin County**

- **Geyser**: 23 1840MST 0 0 60 mph wind gust
  - A severe thunderstorm produced a 60 mph wind gust at Geyser 1E.

**Fergus County**

- **Winifred**: 23 1955MST 0 0 67 mph wind gust
  - A severe thunderstorm produced a 67 mph wind gust at Winifred.

### MONTANA, East

**Prairie County**

- **23 NW Terry to 23 NNE Terry**: 03 1545MST 0 0 0.75 inch hail
  - A severe thunderstorm produced 0.75 inch hail.

- **25 W Glendive**: 03 1600MST 0 0 0.75 inch hail

**Dawson County**

- **9 S Glendive**: 03 1630MST 0 0 60 mph wind gust
  - A severe thunderstorm produced a 60 mph wind gust near Glendive.

- **15 S Wibaux**: 03 1800MST 0 0 67 mph wind gust
  - A severe thunderstorm produced a 67 mph wind gust near Wibaux.

- **Flatwillow**: 04 1920MST 0 0 1.00 inch hail
  - A severe thunderstorm produced 1.00 inch hail.

**Petroleum County**

- **Flatwillow**: 04 1920MST 0 0 60 mph wind gust
  - A severe thunderstorm produced a 60 mph wind gust.

- **35 S Malta**: 04 1920MST 0 0 60 mph wind gust

- **8 ESE Winnett**: 04 1930MST 0 0 0.75 inch hail
  - A severe thunderstorm produced 0.75 inch hail.

- **41 S Malta**: 04 1937MST 0 0 60 mph wind gust

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## Storm Data and Unusual Weather Phenomena

**July 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>
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A thunderstorm gust uprooted several trees in Jordan. The wind damaged a roof in Jordan and overturned a semi-trailer.

Wind gust reported by Montana Department of Transportation wind sensor on Montana Highway 13.

Wind gust reported at the Poplar RAWS site.

Thunderstorm wind gust blew the roof off of the Bainville School.

Two spotters saw a tornado 15 miles north of Winnett. It travelled through a rural area and caused no damage.

Wind gust reported at the Dry Blood Creek RAWS site.
### MONTANA, East

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<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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### Notes
- Thunderstorm wind gust damaged several sheds and outbuildings 2 miles west of Hinsdale, lifted pickup truck 2 feet off the ground 1 miles west of Hinsdale and blew off the roof on the Nemontel building and downed power lines in Hinsdale.
- Thunderstorm wind gust damaged several sheds and outbuildings 2 miles west of Hinsdale, lifted pickup truck 2 feet off the ground 1 miles west of Hinsdale and blew off the roof on the Nemontel building and downed power lines in Hinsdale.
- A small tornado along the edge of a gust front damaged two modular homes and downed several trees in Park Grove. Many homes had some damage to awnings, and gutters and roofs.
MTZ017-022>023-025>027

Central And Southern Valley - Garfield - Mccone - Dawson - Prairie - Wibaux

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Character of Storm</th>
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<tr>
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<td>13 ESE Winnett</td>
<td>Thunderstorm Wind (G52)</td>
</tr>
<tr>
<td>Phillips County</td>
<td>16 SE Zortman</td>
<td>Thunderstorm Wind (G59)</td>
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<td>4 ENE Mosby</td>
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<tr>
<td>Phillips County</td>
<td>14 2120MST</td>
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An upper level ridge brought extreme heat to northeast Montana in mid July. The hottest day in the heatwave was July 14. High temperatures that day included Glendive 111; Cohagen, Jordan, Mildred, and Mosby 110; Circle 109; Brockway, Fort Peck, Nashua, and Vida 108; Savage 107; and Bloomfield 105.

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### Storm Data and Unusual Weather Phenomena

#### July 2002

<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>
<th>Number of Persons Injured</th>
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<tr>
<td></td>
<td>Wind gust report at the King Coulee RAWS site.</td>
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<tr>
<td><strong>Garfield County</strong></td>
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<td>Wind gust reported at the North Breaks RAWS site.</td>
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<td>Thunderstorm Wind (G55)</td>
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<tr>
<td></td>
<td>Thunderstorm wind gust downed 2 to 3 feet diameter trees in Malta.</td>
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<td>Wind gust reported at the Poplar RAWS site.</td>
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<td>16 1750MST</td>
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<td>60 mph wind gust reported by spotter 18 miles north of Winnett.</td>
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<td>16 1845MST</td>
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<tr>
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<td>59 mph wind gust reported by the Dry Blood Creek RAWS.</td>
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<td>15 N Mosby</td>
<td>16 1852MST</td>
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<td>Hail(0.75)</td>
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<td>70 mph wind gust reported by spotter 6 miles north of Sand Springs.</td>
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<td></td>
<td>Thunderstorm wind downed 6 inch diameter tree.</td>
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<td>60 mph wind gust reported by spotter 12 miles NW of Sand Springs.</td>
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<td>60 mph wind reported by spotter 5 miles east of Jordan.</td>
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<td>60 mph wind gust reported by spotter 20 miles northwest of Terry.</td>
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206
## MONTANA, East

60 mph wind gust reported at the Poplar RAWS.

**Prairie County**

11 SW Mildred

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<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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<td>16</td>
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<td>65 mph wind gust reported by spotter 11 miles southwest of Mildred.</td>
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**Phillips County**

35 SE Malta

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<th>Number of Persons Injured</th>
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<td>24</td>
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<td>0</td>
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<td>0</td>
<td>Hail(0.75)</td>
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8 SSW Seoby

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<th>Time</th>
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**Garfield County**

23 N Jordan

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Sheridan County

2 SE Redstone

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<th>Number of Persons Injured</th>
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<td>24</td>
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<td>0</td>
<td>Hail(0.75)</td>
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Roosevelt County

1 S Bredette

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<th>Path Width (Yards)</th>
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<th>Number of Persons Injured</th>
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17 N Brockton

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<th>Path Width (Yards)</th>
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<th>Number of Persons Injured</th>
<th>Character of Storm</th>
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<td>24</td>
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<td>0</td>
<td>0</td>
<td>Hail(0.88)</td>
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60 mph wind gust with hail reported by spotter 17 miles north of Brockton.

**Valley County**

35 SW Glasgow

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<th>Path Width (Yards)</th>
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<th>Character of Storm</th>
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Wind gust reported by the King Coulee RAWS site.

**Garfield County**

8 N Haxby

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<th>Character of Storm</th>
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Culbertson

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**Richland County**

25 NW Lambert

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<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
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</table>

**Roosevelt County**

1 W Bainville

<table>
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<tr>
<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>Character of Storm</th>
</tr>
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<tbody>
<tr>
<td>24</td>
<td>1530MST</td>
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**Richland County**

4 W Sidney

<table>
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<th>Time</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
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<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>1608MST</td>
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<td>0</td>
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5 SE Sidney

<table>
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<tr>
<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>Character of Storm</th>
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5 SE Sidney

<table>
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<th>Date</th>
<th>Time</th>
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<th>Path Width (Yards)</th>
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## MONTANA, South

**Custer County**

32 SSE Miles City

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<td>0</td>
<td>Flash Flood Powderville Road closed due to flash flooding. 2-3 inches of rain in less than one hour.</td>
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**Big Horn County**

St Xavier

<table>
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<th>Path Width (Yards)</th>
<th>Number of Persons Killed</th>
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**Yellowstone County**

17 N Pompeys Pillar

<table>
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<th>Path Length (Miles)</th>
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17 N Pompeys Pillar

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## Storm Data and Unusual Weather Phenomena

### July 2002

<table>
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<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>Wind damage. Numerous reports of trees and fences blown over. Large billboard on 6th Ave. North blown over.</td>
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<td>1653MST</td>
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<td>Thunderstorm Wind (G75)</td>
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<td>Thunderstorm Wind (G70)</td>
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<td>1942MST</td>
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<td>Funnel Cloud</td>
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</table>

208
Wind damage. Gustnado ahead of storm downed a few trees.

Wind damage occurred at the north end of Rock Creek near Clinton. Thunderstorm winds snapped trees in half with numerous branches broken and blown around. One tree fell onto a power line and started a fire with power outages reported.

0.75 to 1.00 inch hail reported by spotter in Deer Lodge.

Thunderstorm Wind (G50)
Strong thunderstorm winds blew through Missoula County during the afternoon. As the storm moved through Missoula, a tree fell onto a bicyclist who was knocked unconscious and injured. Power lines were also blown down in Missoula from the storm. As the thunderstorm moved to the northeast, wind gusts up to 71 mph were recorded with wind damage reported through the Swan Valley and 0.75 hail reported in Condon.

**Mineral County**

**St Regis**

<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>
</tr>
</thead>
<tbody>
<tr>
<td>Missoula County</td>
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<td>0</td>
<td>360K</td>
<td>0</td>
<td>1</td>
<td>$360,000</td>
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</table>

**Flathead County**

<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>
</tr>
</thead>
<tbody>
<tr>
<td>Lakeside to Kalispell</td>
<td>13</td>
<td>2140MST / 2150MST</td>
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<td>0</td>
<td>360K</td>
<td>0</td>
<td>$360,000</td>
<td>Thunderstorm Wind (G57)</td>
</tr>
</tbody>
</table>

Strong thunderstorm winds gusting between 58 to 65 mph caused wind damage in northwest Montana during the evening hours. Most significant damage was on the west end of St. Regis in Mineral County, where numerous large pine trees fell down causing damage of $360,000. Fallen trees damaged a camper and 12 homes on Camels Hump Road. Twelve separate fires were started in Mineral County as trees fell onto power lines and roadways. Highway I-90 was temporarily closed due to fallen trees. A search and rescue worker was injured on I-90, when she was struck in the head by a four-inch diameter falling cottonwood branch. Wind damage was reported near Plains in Sanders County, where strong winds blew a barn off it's foundation 15 feet, and a garage was damaged by a fallen tree. Power outages and small fires were also reported by fallen trees onto power lines in Sanders, Missoula, Lake and Flathead Counties. In Kalispell, a section of awning along the roof line of Wendy's restaurant blew off onto two cars.
A strong thunderstorm dumped heavy rain which flooded an area just west of Anaconda. Reports from media and law enforcement of flash flooding, which caused water two feet deep to flood several buildings around the 1880s Ranch on North Cable Road. Mud and tree branches and stumps were reported flowing through the ranch, with water flooding North Cable Road. Five buildings were flooded with six to eight inches of mud. Part of a garage foundation was washed away, as water came down a hill nine inches deep and about twice as wide as the driveway.

Golfball size hail fell from a thunderstorm over Arlee. Later in the evening, thunderstorms developed over the Bitterroot Valley, producing heavy rain with 0.70 inches reported in 30 minutes near Victor, and 1 inch diameter hail reported near Stevensville.

A strong thunderstorm moved north along the eastern edge of the Bitterroot Valley near Hamilton, producing one inch diameter hail and gusty winds which downed power lines.

Irrigation system was damaged as the tornado made a brief touchdown.

The tornado touched down briefly in a rural area approximately 8 miles west of Bassett in Rock County...near the Rock and Brown County line...and then entered Brown County. There was no damage.

The tornado...originally touching down in Rock County...moved into rural Brown County and lifted quickly causing no damage.

The tornado...originally touching down in Rock County...moved into rural Brown County and lifted quickly causing no damage.
A tropical-like system moved into Southwest Nebraska Friday night and Saturday. Thunderstorms formed along a stationary front and persisted over the same area. Total rainfall was from 8 to 11 inches. Flood waters began to inundate hotels and businesses along Interstate 80 in Ogallala at 7 AM MST. One bridge and numerous roads were damaged or washed out. One person was killed 4 miles west of Ogallala at 759 AM MST as a bridge approach collapsed on Interstate 80. There were 64 homes with water damage. Forty of the homes sustained minor damage while the remaining 24 were total losses or sustained major damage.

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Path (Miles)</th>
<th>Path (Yards)</th>
<th>Number of Persons</th>
<th>Estimated Damage</th>
<th>Character of Storm</th>
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<td>800K 20K</td>
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<td>Perkins County</td>
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<td>0 20K 30K</td>
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## Storm Data and Unusual Weather Phenomena

### July 2002

<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>
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1. Dashed indicating unusual weather phenomenon.
Hail ranged from nickel to golfball size.

**NEBRASKA, East**

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Storm Data and Unusual Weather Phenomena

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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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<td>A thunderstorm wind gust was estimated at around 60 mph by a law enforcement official.</td>
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<td>Law enforcement reported a brief touchdown of a small tornado in open country south of Macy.</td>
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<td>A storm spotter reported hail up to golfball size caused &quot;extreme damage&quot; in town.</td>
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<td>Lightning struck a painting company's building causing a fire which destroyed the building and around $200,000 in contents.</td>
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<td>Lightning struck a painting company's building causing a fire which destroyed the building and around $200,000 in contents.</td>
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<td>Hail up to 1.25 inches in diameter was reported in Columbus by emergency management.</td>
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<td>A thunderstorm wind gust of 61 mph was recorded by the AWOS at the Columbus airport. This is from the same storm that produced hail up to 1.25 inches in diameter. The winds downed large tree limbs in town, several of which fell on vehicles or downed a few power lines.</td>
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<td>A storm spotter estimated thunderstorm wind gusts of around 60 mph.</td>
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<td>A storm spotter estimated thunderstorm wind gusts of around 60 mph.</td>
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<td>A thunderstorm downburst downed several large trees on the north side of Beemer.</td>
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## Storm Data and Unusual Weather Phenomena

### NEBRASKA, Extreme Northeast

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</tr>
</tbody>
</table>
**NEBRASKA, Extreme Northeast**

**Dakota County**

**Jackson to 2 S Jackson**

<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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>25</td>
<td>0245CST</td>
<td>0000MST</td>
<td>2359MST</td>
<td>0</td>
<td>0</td>
<td>500K</td>
<td>Thunderstorm Wind (G61)</td>
</tr>
</tbody>
</table>

Thunderstorm winds caused widespread damage to trees and structures. The worst structural damage was on a farm just south of Jackson where two barns and a windmill were totally destroyed, shingles on the roof of the house were blown off, an air conditioner was destroyed, five horses were injured, and electricity was cut off. In Jackson, shingles were blown off the roofs of buildings, siding was damaged from wind blown debris, and a few homes suffered damage when large branches fell. Major tree damage in Jackson included a few large trees blown over. Power lines and poles were blown down or damaged by falling trees, resulting in power outages.

**Dakota County**

**Jackson to 2 S Jackson**

<table>
<thead>
<tr>
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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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<th>Character of Storm</th>
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<tbody>
<tr>
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<td>0000MST</td>
<td>2359MST</td>
<td>0</td>
<td>0</td>
<td>100K</td>
<td>Hail (1.75)</td>
</tr>
</tbody>
</table>

Large hail, driven by severe winds, damaged siding on homes, and also dented vehicles.

**Dakota County**

**Homer**

<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>
</tr>
</thead>
<tbody>
<tr>
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<td>0245CST</td>
<td>0000MST</td>
<td>2359MST</td>
<td>0</td>
<td>0</td>
<td>20K</td>
<td>Thunderstorm Wind (G61)</td>
</tr>
</tbody>
</table>

Thunderstorm winds severely damaged grain elevators on a farm, and caused tree damage.

---

**NEBRASKA, Extreme Southwest**

**NEZ079>081**

**Dundy - Hitchcock - Red Willow**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</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>Character of Storm</th>
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</thead>
<tbody>
<tr>
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<td>0000MST</td>
<td>2359MST</td>
<td>0000MST</td>
<td>0</td>
<td>0</td>
<td>Drought</td>
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</table>

Drought conditions worsened from extreme to exceptional during the month of July across extreme southwest Nebraska. Hot temperatures and much below normal rainfall during the month continued to stress crops and livestock in the area.

**Red Willow County**

**Indianola**

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<th>Character of Storm</th>
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<tbody>
<tr>
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<td>2200MST</td>
<td>0000MST</td>
<td>0000MST</td>
<td>0</td>
<td>0</td>
<td>0.10K</td>
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</table>

Large tree uprooted by thunderstorm winds.

**Red Willow County**

**12 S Mc Cook**

<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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<th>Number of Persons Injured</th>
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<th>Character of Storm</th>
</tr>
</thead>
<tbody>
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<td>0</td>
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**Red Willow County**

**Mc Cook**

<table>
<thead>
<tr>
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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>Character of Storm</th>
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<td>0000MST</td>
<td>0000MST</td>
<td>0</td>
<td>2</td>
<td>100K</td>
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Refer to event narrative for July 21st.

**Red Willow County**

**2 N Mc Cook**

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<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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**Red Willow County**

**2 N Mc Cook**

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<th>Number of Persons Injured</th>
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<th>Character of Storm</th>
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<td>1854MST</td>
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<td>0000MST</td>
<td>0</td>
<td>0</td>
<td>Hail (0.75)</td>
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**Red Willow County**

**3 E Mc Cook**

<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>Number of Persons Injured</th>
<th>Estimated Damage Property</th>
<th>Character of Storm</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>21</td>
<td>1900MST</td>
<td>2100MST</td>
<td>0000MST</td>
<td>0</td>
<td>0</td>
<td>Flash Flood</td>
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</table>

Three to four feet of water across portions of highway 6/34 between McCook and Bartley due to rapid runoff from thunderstorm rains. Law enforcement closed the highway in several locations while cleanup crews removed mud and debris after the water subsided.

Several slow-moving, strong thunderstorms moved from northern Kansas into extreme southern Nebraska during the evening, affecting eastern Hitchcock and Red Willow counties in Nebraska. Locally heavy rainfall of 3 to 4 inches produced rapid runoff, closing highway 6/34 for several hours. Small hail and strong, damaging winds also accompanied the storms. Two people suffered minor injuries when a tarp blew down at a local rodeo, still in progress during the storm. A ferris wheel was also damaged at a local carnival. At least six utility poles were blown down, and a roof was removed from a hangar at the McCook airport. A roof was blown off a house in the city of McCook. Numerous trees and tree limbs were reported down throughout the city.

---

**NEBRASKA, South Central**

**Greeley County**

**Greeley**

<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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<th>Number of Persons Injured</th>
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<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>0</td>
<td>0</td>
<td>Hail (0.75)</td>
</tr>
</tbody>
</table>
Isolated thunderstorms produced strong downburst winds in parts of the area. On the east side of Hastings, an estimated 80 mph wind destroyed three buildings, ripped the roof from a horse barn, tore another roof from a local radio station and fell numerous trees in the area. An empty grain bin at one of the ethanol plants was destroyed. In Furnas county at Hendley, another 70+ mph wind damaged six houses with lost shingles and blown out windows, and significantly damaged a steel structure at the local elevator. Yet one more storm passed north of Kearney and snapped 4 power poles.

<table>
<thead>
<tr>
<th>Location</th>
<th>Time/Path Length</th>
<th>Path Width</th>
<th>Number of Persons</th>
<th>Estimated Damage</th>
<th>Character of Storm</th>
</tr>
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<tr>
<td>Howard County</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>2 SW Cotesfield</td>
<td>1990CST</td>
<td>0</td>
<td>0</td>
<td>0,0</td>
<td>Hail(0.75)</td>
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<tr>
<td>Sherman County</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Ashton</td>
<td>1990CST</td>
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<td>0</td>
<td>0,0</td>
<td>Hail(0.75)</td>
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<tr>
<td>Buffalo County</td>
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<td></td>
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<tr>
<td>12 N Kearney</td>
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<td>6K</td>
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<td></td>
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<tr>
<td>Hastings</td>
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<td>0</td>
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<tr>
<td>Hendley</td>
<td>1990CST</td>
<td>0</td>
<td>0</td>
<td>150K,250K</td>
<td>Thunderstorm Wind</td>
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<td>Valley County</td>
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</tr>
<tr>
<td>12 NW Ord</td>
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<td>10K,250K</td>
<td>Hail(1.75)</td>
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<td>Valley County</td>
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<tr>
<td>Howard County</td>
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<tr>
<td>Hall County</td>
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<td>1990CST</td>
<td>2</td>
<td>35</td>
<td>0,0</td>
<td>Tornado (F0)</td>
</tr>
</tbody>
</table>
NEBRASKA, South Central

An off-duty NWS employee and many other storm spotters witnessed the tornado north of Shelton. No significant damage was reported from the tornado itself as it bounced along the ground.

This is a picture of the storm as it moved into northern Buffalo county. Photo provided by Jeff Zinnel.

An ominous looking supercell dived southeast from around Ord to southwest of Hastings spawning tornadoes and damaging hail along its path. The structure of the severe thunderstorm was easily visible from many miles away. After producing large hail in northwest Valley county, a tornado was spotted by a volunteer fireman north of Arcadia. No damage occurred. As the storm drove southeast, hail to the size of baseballs was reported from near Ravenna to south of Shelton. To the northeast of Shelton, another tornado was reported to have lasted about four minutes. No property damage was noted. Wind driven large hail did hammer much of Shelton and the surrounding areas. Windows were blown out, cars severely damaged and many roofs were deemed lost. Some crops in the area were leveled as damage totaled well into the millions. The storm continued to pound western Adams and eastern Kearney county with damaging hail and wind before falling apart in Franklin county around midnight.

### Storm Data and Unusual Weather Phenomena

<table>
<thead>
<tr>
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<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 Property Damage</th>
<th>Character of Storm</th>
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<tbody>
<tr>
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<td>Hail(1.00)</td>
</tr>
</tbody>
</table>

An ominous looking supercell dived southeast from around Ord to southwest of Hastings spawning tornadoes and damaging hail along its path. The structure of the severe thunderstorm was easily visible from many miles away. After producing large hail in northwest Valley county, a tornado was spotted by a volunteer fireman north of Arcadia. No damaged occurred. As the storm drove southeast, hail to the size of baseballs was reported from near Ravenna to south of Shelton. To the northeast of Shelton, another tornado was reported to have lasted about four minutes. No property damage was noted. Wind driven large hail did hammer much of Shelton and the surrounding areas. Windows were blown out, cars severely damaged and many roofs were deemed lost. Some crops in the area were leveled as damage totaled well into the millions. The storm continued to pound western Adams and eastern Kearney county with damaging hail and wind before falling apart in Franklin county around midnight.

Clay County

<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 Property Damage</th>
<th>Character of Storm</th>
</tr>
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<tbody>
<tr>
<td>Countywide</td>
<td>28</td>
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<td>100K</td>
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<tr>
<td>5 E Deweese</td>
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<td></td>
<td></td>
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<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

219
### NEBRASKA, South Central

Heavy rains fell in the Little Blue River Basin southeast of Hastings. The river was dry, but up to 4 inches of rain across southern Clay and northern Nuckolls county replenished the flow. The 279 farmers who rely on the river for irrigation could once again draw on the river to water their drought stricken crops.

**Nance County**
- **Genoa**
  - Date: 30
  - Time: 0955 CST
  - Kill: 0
  - Injur: 0
  - Property: 50K
  - Crop: 250K
  - Event: Hail
  - Size: 1.00
  - Path: 50K
  - Time: 0030
  - Location: CST

**Polk County**
- **Shelby**
  - Date: 30
  - Time: 1126 CST
  - Kill: 0
  - Injur: 0
  - Property: 50K
  - Crop: 400K
  - Event: Hail
  - Size: 1.75
  - Path: 50K
  - Time: 0030
  - Location: CST

Hail to the size of golf balls was reported in Shelby from some early afternoon severe storms passing through the region. Up to 2 inches of rain fell in southeast Polk county.

### NEBRASKA, West

NONE REPORTED.

### NEVADA, North

**Elko County**
- **(Eko) Harris Fld Elko**
  - Date: 05
  - Time: 1739 PST
  - Kill: 0
  - Injur: 0
  - Event: Thunderstorm Wind
  - Size: G52

**Elko County**
- **Spring Creek**
  - Date: 13
  - Time: 1720 PST
  - Kill: 0
  - Injur: 0
  - Event: Thunderstorm Wind
  - Size: G55

Thunderstorm winds blew over a windmill and blew a heavy grill off a deck.

**Elko County**
- **12 SE Charleston to 27 S Jackpot**
  - Date: 14
  - Time: 1410 PST
  - Kill: 0
  - Injur: 0
  - Event: Thunderstorm Wind
  - Size: G58

The Rock Springs RAWS site 27 miles south of Jackpot reported thunderstorm wind gust to 67 mph while the Stag Mountain RAWS site 12 miles southeast of Charleston reported thunderstorm wind gust to 58 mph.

**Elko County**
- **Spring Creek**
  - Date: 14
  - Time: 1415 PST
  - Kill: 0
  - Injur: 0
  - Event: Thunderstorm Wind
  - Size: G50

Thunderstorm winds blew some shingles off a roof.

**Elko County**
- **Spring Creek**
  - Date: 16
  - Time: 1450-1455 PST
  - Kill: 0
  - Injur: 0
  - Event: Thunderstorm Wind
  - Size: G52

**Lander County**
- **Battle Mtn**
  - Date: 21
  - Time: 2000-2100 PST
  - Kill: 0
  - Injur: 0
  - Event: Thunderstorm Wind
  - Size: G65

Thunderstorm winds at Battle Mountain High School blew several porta-potties about 175 feet, torn the roof off the baseball dugout, blew over large metal trailer, and partially uprooted a large tree.

**Elko County**
- **12 SW Jiggs to Spring Creek**
  - Date: 24
  - Time: 1420 PST
  - Kill: 0
  - Injur: 0
  - Event: Thunderstorm Wind
  - Size: G59

Thunderstorm winds gusted to 65 mph at the Crane Springs RAWS site and 68 mph at Spring Creek.

### NEVADA, South

**Clark County**
- **Henderson**
  - Date: 12
  - Time: 1715 PST
  - Kill: 0
  - Injur: 0
  - Event: Thunderstorm Wind
  - Size: G60

Winds of 69 mph were measured at the Henderson Executive Airport.

**Clark County**
- **Cal-Nev-Ari**
  - Date: 12
  - Time: 1738 PST
  - Kill: 0
  - Injur: 0
  - Event: Thunderstorm Wind
  - Size: G61

Thunderstorm winds estimated at 70 mph were reported in Cal-Nev-Ari.

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### Storm Data and Unusual Weather Phenomena

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<th>Path Length (Miles)</th>
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220
NEVADA, West

Lyon County
Dayton 12 1430PST 1500PST 0 0 50K 0 Thunderstorm Wind
Several downed power poles and four small trailers destroyed.

Washoe County
5 NW Reno Stead Arpt 12 1430PST 1445PST 0 0 0 0 Tstm Wind/Hail
3/4 inch hail

Washoe County
Sun Vly 12 1500PST 1515PST 0 0 0 0 Tstm Wind/Hail
3/4 inch hail
A line of severe thunderstorms moved through southern Washoe and northern Lyon County, NV between 3:30 and 4:30 pm PDT. Numerous spotter reports of 3/4 inch hail in Cold Springs and Sun Valley. Several power poles and four small trailers were destroyed by high winds near Dayton.

Washoe County
20 W Gerlach 12 1730PST 1830PST 0 0 0 0 Thunderstorm Wind (G68)M
78 mph wind gust
Between 6:30 pm and 7:30 pm PDT, a line of severe thunderstorms moved through northern Washoe Co., NV. During this time, an automated weather station measured a 78 mph wind gust in association with the storms.

Washoe County
15 W Nixon 13 1415PST 1430PST 0 0 Hail(1.75)
Reported by resident of Warm Springs Valley.

Washoe County
5 SW Nixon 13 1438PST 0 0 Thunderstorm Wind (G73)M
Thunderstorm wind gust of 84 mph recorded by automated weather station on Virginia Peak.

Douglas County
5 E Gardnerville 13 1532PST 0 0 Thunderstorm Wind (G51)M
Thunderstorm wind gust of 59 mph recorded by RAWS site.

Washoe County
Gerlach 13 1552PST 0 0 Thunderstorm Wind (G56)
Spotter reported estimated wind gust of 65 mph.

Washoe County
5 E Sutcliffe 13 1600PST 0 1 5K Thunderstorm Wind (G51)
Thunderstorm winds capsized a fishing boat on Pyramid Lake. The occupant was rescued.

Washoe County
5 NW Reno 13 1600PST 1620PST 0 0 0.50K Thunderstorm Wind (G65)
Spotter report of estimated wind gusts of 75 mph. Two trees blown down.

Washoe County
3 N Reno Cannon Intl A 13 1615PST 0 0 Thunderstorm Wind (G51)M
58 mph thunderstorm wind gust recorded at National Weather Service office.

Washoe County
5 SW Reno 13 1615PST 1620PST 0 0 1K Thunderstorm Wind (G56)
Public report of several trees blown down due to estimated thunderstorm winds of 65 mph.

Washoe County
8 N Reno 13 1622PST 0 0 Thunderstorm Wind (G50)M
Wind gust of 58 mph recorded by RAWS site at Desert Springs.

Lyons County
Fernley 13 1638PST 0 0 5K Thunderstorm Wind
The Lyon County Sheriff Office reported several power lines blown down due to strong thunderstorm winds.
NEVADA, West

Lyon County
6 SW Dayton
1850PST
0
0
1K
Thunderstorm Wind
The Lyon County Sheriff Office reported several trees blown down due to thunderstorm winds in the Moundhouse Area.

Douglas County
Glenbrook
1230PST
1245PST
0
0
0
0
Hail(1.00)
One inch hail

Washoe County
Incline Vlg
1300PST
1315PST
0
0
0
0
Hail(1.00)
A severe thunderstorm moved over Douglas and Washoe Co.near the Nevada shore of Lake Tahoe. Glenbrook Fire Dept. reported 1 inch hail at 1:43 pm PDT and about 20 minutes later, spotters in Incline Village, NV reported 1 inch hail.

Mineral County
Hawthorne
1045PST
1100PST
0
0
0
0
Hail(0.75)
1 inch hail
Spotter reports 1 inch hail occurring at 11:47 am PDT with severe thunderstorm moving over Hawthorne, NV.

NVZ004
Western Nevada Basin And Range
1400PST
1500PST
0
0
Dust Storm
Strong downburst winds from thunderstorms caused dust storm across Pershing Co., NV. The Pershing County Sheriff's Office reported visibilities as low as 50 ft. approximately 20 miles west of Lovelock at 3:15 pm PDT.

Pershing County
40 E Unionville
1830PST
Thunderstorm Wind (G59)'M
Siard RAWS reports a 68 mph wind gust at 7:30 pm PDT in association with downburst winds from a severe thunderstorm moving through eastern Pershing Co., NV.

Washoe County
3 NW Nixon
1905PST
Thunderstorm Wind (G52)'M
Strong winds in association with severe thunderstorms. Gusts to 60 mph at 8:05 pm PDT at automated wind sensor near Pyramid Lake, NV.

NEW HAMPSHIRE, North and Central

Carroll County
Ossipee
2310EST
0
0
Lightning
Lightning caused a fire that flared up on the 13th and burned 3 to 4 acres on Pocket Mountain in Granite. Approximately 70 firefighters from 16 departments responded to the blaze. A tall pine tree was apparently struck late on the 8th and the resultant fire smouldered in the tree or in the ground until it flared up on the 13th.

Carroll County
Conway
1500EST
0
0
Thunderstorm Wind (G50)

Sullivan County
Claremont
1525EST
0
0
Hail(0.88)
Severe thunderstorms moving through New Hampshire knocked down trees and caused large hail in a few areas in the central part of the state. Trees were reported down in the town of Conway, while falling branches caused minor damage and a few power outages near Meredith. Nickel-sized hail was reported in Claremont. As the storms moved through the southeast part of the state, lightning ignited a small fire at a lumber yard in Rye.

Strafford County
Alexandria
1300EST
0
0
Thunderstorm Wind (G50)

Belknap County
Gilford
1315EST
0
0
Thunderstorm Wind (G50)

Merrimack County
Hooksett
1415EST
0
2
Lightning

Grafton County
Strafford
1415EST
0
0
Thunderstorm Wind (G50)
Severe thunderstorms moving through central and southern New Hampshire knocked down trees and power lines and lightning from the storms caused several fires. Southeastern Rockingham County had the worst damage as numerous trees were downed by the thunderstorms. Trees were reported down in Alexandria, Gilford, Strafford, Newfields, Salem, Hampton, Hampton Falls, North Hampton, Stratham, Exeter, Brentwood, Epping, and Greenland. Lightning damaged structures in Stratham and Auburn and two people were injured by lightning as they stood outside their home in Hooksett. In Hampton, the porch of a building was lifted up and over the building on Ocean Blvd and landed in the street. In Stratham, lightning struck a 14 by 28 ft barn, causing a fire that burned the structure and equipment inside to the ground. Lightning also struck the fire station in Auburn causing about $5000 in damage.

### NEW HAMPSHIRE, North and Central

<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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Severe thunderstorms moving through central and southern New Hampshire knocked down trees and power lines and lightning from the storms caused several fires. Southeastern Rockingham County had the worst damage as numerous trees were downed by the thunderstorms. Trees were reported down in Alexandria, Gilford, Strafford, Newfields, Salem, Hampton, Hampton Falls, North Hampton, Stratham, Exeter, Brentwood, Epping, and Greenland. Lightning damaged structures in Stratham and Auburn and two people were injured by lightning as they stood outside their home in Hooksett. In Hampton, the porch of a building was lifted up and over the building on Ocean Blvd and landed in the street. In Stratham, lightning struck a 14 by 28 ft barn, causing a fire that burned the structure and equipment inside to the ground. Lightning also struck the fire station in Auburn causing about $5000 in damage.

### NEW HAMPSHIRE, Southern

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A line of severe thunderstorms moved across southern New Hampshire. Trees and wires were downed in Keene and Harrisville, in
NEW HAMPSHIRE, Southern

Cheshire County. The same storms downed large branches as they reached Peterborough, in Hillsborough County, but the damage was more significant as the storms moved farther east. A roof was blown off a building in Manchester, and there were many reports of downed trees and wires in New Boston and Nashua. A plywood board was sent airborne by a wind gust and apparently sheared a gas line at a business, which shut down a portion of Daniel Webster Highway for more than an hour. In all, about 7,500 customers were left without power because of the storms.

NEW JERSEY, Northeast

NJZ002>006-011 Western Passaic - Bergen - Eastern Passaic - Essex - Hudson - Union

0000EST 2359EST

After an encouraging 4 month period of increasing rainfall and improving drought conditions, the region experienced a disappointing setback during July. Rainfall during the month was well below normal. The Brookhaven Hydrologic Service Area (HSA) received 1.62 inches of rain during July, which was 41 percent of normal or 2.33 inches below normal.

At the end of July, 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 10 to 24 percentile, which was well below normal.

The combined storage in the 13 major reservoirs serving Northeast New Jersey on July 31st was 83.6 percent capacity, which was within 10 percent of normal. Capacities in the individual reservoirs on July 31st were:

- Newark Reservoirs: 71.9% (Percent capacity)
- Jersey City Reservoirs: 88.1%
- North Jersey District: 88.3%
- United Water of New Jersey: 75.2%

The State of New Jersey extended the state-wide Drought Emergency that it issued on March 4th, through July 31st. Passaic, Bergen, Essex, Hudson, and Union Counties were included in this emergency.

NJZ002>006-011 Western Passaic - Bergen - Eastern Passaic - Essex - Hudson - Union

01200EST 1700EST

Temperatures rose into the upper 90s in the highly urbanized areas of Northeast Union, Southeast Essex, and Eastern Hudson Counties that included the corridor from Elizabeth City north to Newark and Jersey City. They rose mainly into the mid 90s elsewhere. Temperatures averaged 10 to 15 degrees above normal. On July 4th, the high temperature reached 100 degrees at Newark Airport. Overnight low temperatures during July third and fourth remained in the lower 80s in highly urbanized areas. High temperatures and humidities combined to produce heat indices from 100 to 105 degrees throughout the region.

Bergen County

Bergenfield 09 1616EST 0 0 Thunderstorm Wind (G50)

A severe thunderstorm wind gust knocked over a tree, which fell onto a house.

Bergen County

Montvale 19 1615EST 0 0 Thunderstorm Wind (G50)

A severe thunderstorm produced high winds that downed tree limbs in Montvale. This was reported by local law enforcement.

Passaic County

Clifton 19 1620EST 0 0 Hail(0.75)

A spotter reported dime size hail.

Bergen County

Countywide 19 1631EST 1645EST 0 0 Urban/Sml Stream Fld

224
NEW JERSEY, Northeast

Brief periods of heavy rain produced by strong thunderstorms caused widespread urban flooding of low lying and poor drainage areas in Bergen County. Radar estimated rainfall rates between 1 and 2 inches per hour. Spotters reported up to 2 feet of water at the Hillsdale Toll Plaza on the Garden State Parkway. Widespread street flooding was reported in Dumont, and four cars were left underwater in a parking lot in East Rutherford after nearby swamp land flooded and another two were stuck in a rising tide on Route 17.

**NJZ002>006-011 Western Passaic - Bergen - Eastern Passaic - Essex - Hudson - Union**

<table>
<thead>
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<th>Location</th>
<th>Date</th>
<th>Time Local/Standard</th>
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<th>Path Width (Yards)</th>
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An eight day "heat wave" began on July 29th and extended through August 5th across the region. High temperatures rose into the mid and upper 90s from July 29th through the 31st. These temperatures combined with humidity produced heat indices from 100 to 105 degrees on the 29th and from around 95 to 100 degrees on the 30th and 31st.

NEW JERSEY, South and Northwest


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<th>Date</th>
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<th>Path Width (Yards)</th>
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The unseasonably warm and dry month of July intensified drought conditions across the state. In spite of mandatory restrictions, water usage increased as the month wore on. Water usage statewide was down by as much as 20 percent in May and June. The preliminary statewide average precipitation total for the month of July was 1.52 inches, the 6th driest July on record since 1895. Normal is 4.49 inches.

As July wore on streamflow and groundwater levels dropped again. In the southern part of the state as of July 22nd groundwater levels in the Kirkwood-Cohansey Aquifer reached record low levels for July. Streamflow on the Maurice, Great Egg and Oswego Rivers were also approaching record lows. The number of municipalities declaring tighter restrictions increased. In Woolwich Township (Gloucester County) and Roxbury Township (Morris County) moratoriums on water allocation permits stopped ongoing developments. Brick Township in Ocean County banned all unnecessary watering in the township and also in Point Pleasant and Point Pleasant Beach as sand intruded in one well. The municipal authority could not draw water from the Metedeconk River because of salt water intrusion. In Cumberland County, residents in one Vineland community were invaded by crayfish after the Burnt Mill Pond went dry and the creatures went looking for water.

Due to the normal to above normal precipitation from March through June, early crops were not affected by the drought. But, as the month wore on, they were showing signs of stress. The second cutting of hay in Sussex County was stopped because of inadequate moisture. Subsoil conditions were becoming dry. It was estimated that up to 50 percent of the corn crop in Hunterdon County could be lost. Flow along the Assunpink Creek was at a 19 year low. Any plans of opening the Mercer Oaks East Golf Course this year were cancelled.

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 Nockamixon, 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. As of July 31st, the salt front along the Delaware River was one mile farther upstream than its normal July 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 decreased from 89.0 percent of capacity on July 1st to 77.1 percent of capacity on July 31st. The northern New Jersey reservoirs were at about 80 percent of capacity as of July 31st, slightly below normal. For the month streamflow on the Delaware River was about 75 percent of normal.
NEW JERSEY, South and Northwest

On a county weighted average, July monthly precipitation totals ranged from 1.1 inches in Hunterdon County to 2.5 inches in Camden County. The least precipitation fell across the Raritan River Basin. Monthly precipitation totals were 1.07 inches (second driest on record) at the Atlantic City International Airport and 0.60 inches in Trenton. The monthly precipitation total of 0.86 inches at the Atlantic City Marina was the 6th driest July on record.


July started with unseasonably hot and humid weather across New Jersey. The hottest and most humid weather occurred on Independence Day before a cold front quietly moved through the region during the night of the 4th. Highest temperatures for most locations were well into the 90s and heat indices reached as high as 105 degrees. Offshore winds even baked shore areas on the 3rd and 4th as high temperatures reached into the 90s. The excessive heat caused a small number of heat related illnesses across the state, mainly the elderly. Festivals scheduled for Independence Day showed drops in attendance figures because of the hot weather. Jersey Central Power and Light set a new usage record of 5,617 megawatts on the 3rd.

Highest temperatures included 100 degrees in Pennsauken (Camden County) and Belvidere (Warren County), 99 degrees in Margate (Atlantic County), White House Station (Hunterdon County) and Morristown (Morris County), 98 degrees in Millville (Cumberland County), West Deptford (Gloucester County), Hightstown (Mercer County), New Brunswick (Middlesex County), Freehold (Monmouth County), Vernon (Sussex County) and Mount Holly (Burlington County), 97 degrees in Beach Haven (Ocean County), Wildwood (Cape May County), Trenton (Mercer County) and the Atlantic City International, 96 degrees in Somerville (Somerset County) and the Marina within Atlantic City and 94 degrees in Flemington (Hunterdon County).

Cumberland County
Stow Creek Ln to Bridgeton 09 2100EST 2110EST 0 0 Thunderstorm Wind (G50)
A severe thunderstorm tore down several large limbs across the western third of Cumberland County. Downed limbs on roadways were reported in Stow Creek Township and Bridgeton City.

Cape May County
Cape May 09 2130EST 0 0 Tstm Wind/Hail
A thunderstorm damaged beach tents and a lifeguard boat in Cape May. Cape May Harbor recorded a wind gust to 48 mph.

Ocean County
Holiday City 09 2200EST 0 0 Lightning
Lightning strikes knocked out power to 4,900 Conectiv Power Delivery customers in Berkeley Township including the Silver Ridge Park and Holiday City adult communities.

Monmouth County
Bradley Beach 11 1824EST 1 0 0 0 Lightning
A 28-year-old woman was fatally struck by lightning on the LaReine Avenue Beach in Bradley Beach during the early evening of the 11th. She was found in distress on the beach with burn marks in the mid section of her body before she passed away. F280U


Another work week of hot weather affected the southern half of New Jersey from the 15th through the 19th. High temperatures reached into the 90s in most areas each day. The highest temperatures mainly occurred on the 17th. Humidity levels were high for most of the week, except for the 16th when a weak back door cold front moved through the region. The heat and humidity extended into the northern half of the state from the 17th through the 19th. A second stronger front moved through the state during the evening of the 19th and the early morning of the 20th and ended the string of 90 degree high temperatures. Highest temperatures included 98 degrees in Newton (Sussex County), Belvidere (Warren County) and New Lisbon (Burlington County), 96 degrees in Phillipsburg (Warren County), Flemington (Hunterdon County), New Brunswick (Middlesex County), Somerville

Ocean County
Cape May
Cape May
Ocean County
Holiday City
Monmouth County
Bradley Beach
NEW JERSEY, South and Northwest

(Somerset County), Trenton and Hightstown (Mercer County) and Chatham (Morris County), 95 degrees in Mount Holly (Burlington County), 94 degrees at the Atlantic City International Airport, in Seabrook (Cumberland County) and West Deptford (Gloucester County) and 93 degrees in Freehold (Monmouth County).

Morris County
Middle Vly to Chester
- 18 1715EST 1725EST
- 0 0
- Thunderstorm Wind (G52)
A severe thunderstorm tore down several trees, tree limbs and wires across Washington and Chester Townships and Chester Borough.

Somerset County
Gladstone to Peapack
- 18 1745EST
- 0 0
- Thunderstorm Wind (G52)
A severe thunderstorm knocked over several trees and tree limbs and numerous wires in Peapack-Gladstone Borough.

Monmouth County
Howell
- 19 1350EST
- 0 0
- Thunderstorm Wind (G57)
A severe thunderstorm knocked down numerous trees and wires in Howell Township, especially the southern half of the township. Several trees were knocked down across County Route 547 taking power lines with them. The combination of high winds and lightning left 5,000 Jersey Central Power and Light customers without power in Monmouth and Ocean Counties on the 19th.

Monmouth County
Howell
- 19 1400EST
- 0 0
- Lightning
Lightning struck a boat in storage in Howell Township. The ensuing fire took about 10 minutes to get under control. A transformer near the township police station was also struck by lightning.

Ocean County
Bayville
- 19 1449EST
- 0 0
- Thunderstorm Wind (G52)
A severe thunderstorm knocked down a couple of trees in Bayville.

Ocean County
Bayville
- 19 1500EST 1530EST
- 0 1
- Lightning
Lightning struck the roof of a vacant two story building in Bayville during the afternoon of the 19th. The ensuing fire was extinguished in about 20 minutes, but still damaged the second story of the building. As firefighters were cleaning the scene, another bolt of lightning struck the ground about 30 feet from a fire truck. It traveled to the truck and injured a firefighter who had his hand on a metal casing at the time of lightning strike. His arm went numb. Jersey Central Power and Light reported that 5,000 of its customers lost power due to the winds and lightning on the 19th in Ocean and Monmouth Counties.

Sussex County
Newton
- 19 1510EST
- 0 0
- Lightning
A lightning bolt struck an apartment building, left two holes in the roof and ignited a small fire. Residents in the sixteen units of the apartment building were safely evacuated. The fire was quickly extinguished. One apartment had to be inspected before the residents were allowed to return. No serious injuries were reported.

Burlington County
Cinnaminson
- 19 1610EST
- 0 0
- Thunderstorm Wind (G52)
A severe thunderstorm knocked down numerous trees and wires in Cinnaminson Township. Five evergreens trees were knocked down on one property. A trampoline on one property sailed over a pool and knocked out a fence. More than thirty trees were knocked down on the property of Saint Borromeo Church and School. A downed tree landed on and damaged an empty house on the church property.

Burlington County
Moorestown to Mt Laurel
- 19 1632EST 1637EST
- 0 0
- Thunderstorm Wind (G50)
A severe thunderstorm knocked down numerous large tree limbs and wires in Moorestown and Mount Laurel Townships. A large tree was also knocked down on Chester Avenue in Moorestown. Just south of Mount Laurel, South Jersey Regional Airport reported a peak wind gust of 49 mph at 5:33 p.m. EDT. A rotten tree was knocked down near the airport on Ark Road. Public Service Electric and Gas (PSE & G) reported about 25,000 of its customers lost power from the series of thunderstorms on the 19th in Mercer, Burlington and Camden Counties. All power was restored in Burlington County on the 21st.

Somerset County
Countywide
- 19 1645EST 1845EST
- 0 0
- Urban/Sml Stream Fld
Thunderstorms with heavy rain dropped an adjusted Doppler Radar storm total of 1 to 2 inches across most of Somerset County. This caused low lying and poor drainage area flooding. A motorist was stuck in an underpass in South Bound Brook and was rescued about 6 p.m. EDT by breaking the vehicle’s driver side window.
NEW JERSEY, South and Northwest

Middlesex County
Piscataway 19 1715EST 0 0 Thunderstorm Wind (G52)
A severe thunderstorm tore off part of a roof of a house in Piscataway Township.

Ocean County
North Portion 19 1730EST 0 0 Flash Flood
Thunderstorms with torrential downpours dropped an adjusted Doppler Radar Storm Total estimate of 5 to 6 inches of rain in Lakewood and Jackson Townships. This caused considerable urban and poor drainage flooding as well as flooding of streams in northern Ocean County. The heavy rain forced the closure of a couple of major roads in Lakewood Township: U.S. Route 9 and New Jersey State Route 70. It also flooded the entrance to the Kimball Medical Center. Farther south, the heavy rain caused street flooding in Dover Township in Toms River.

Camden County
Pennsauken to Cherry Hill 19 1730EST 1930EST 0 0 Urban/Sm Stream Fld
Thunderstorms with very heavy rain caused urban and poor drainage flooding along the northeastern Camden County border with Burlington County. A SKYWARN Spotter reported two inches of rain fell in one hour between 6 p.m. and 7 p.m. EDT in Cherry Hill Township. Event totals were mainly between two and three inches. Flooding was reported along Admiral Wilson Boulevard in Camden and Pennsauken. Storm totals included 2.55 inches in Cherry Hill and 2.41 inches in Pennsauken.

Middlesex County
Metuchen to Sayreville 19 1730EST 1930EST 0 0 Urban/Sm Stream Fld
Thunderstorms with heavy rain dropped an adjusted Doppler Radar Storm Total estimate of two to three inches across central Middlesex County. This caused urban and poor drainage flooding in East Brunswick Township, Edison Township, Metuchen Borough and Sayreville Borough. Flooding was reported at the Victory Circle in Sayreville, U.S. Route 1 in Edison and New Jersey State Route 18 in East Brunswick. A motorist was rescued from a vehicle on U.S. Route 1 in Edison.

Middlesex County
Cranbury 19 1745EST 0 0 50K 0 Lightning
Lightning struck the chimney of a house in Cranbury. Bricks from the chimney were strewn across the front lawn. The lightning ignited a fire in the attic of the house. Before it was the extinguished, the house was severely damaged. The damage estimate was conservatively estimated at $50,000. No serious injuries were reported.

Burlington County
Mt Laurel 19 1745EST 0 0 Lightning
Lightning struck two buildings in Mount Laurel Township and started fires in each of them. On was a vacant building on New Jersey State Route 73, the second was a building on Union Mill Road. No serious injuries were reported.

Camden County
Haddonfield to Cherry Hill 19 1750EST 0 0 Thunderstorm Wind (G50)
A severe thunderstorm knocked down numerous large limbs as well as wires in Cherry Hill and Haddonfield Townships. Public Service Electric and Gas (PSE & G) reported about 25,000 of its customers lost power from the series of thunderstorms on the 19th in Mercer, Burlington and Camden Counties. All power was restored by the 21st.

Monmouth County
Cliffwood Beach to Holmdel 19 1750EST 0 0 Thunderstorm Wind (G52)
A severe thunderstorm knocked over a couple of trees and numerous limbs and wires in northwestern Monmouth County in Cliffwood Beach (Aberdeen Township), Hazlet Township, Holmdel Township, Keansburg Borough and Keyport Borough. Jersey Central Power and Light reported that 5,000 of its customers lost power due to the winds and lightning on the 19th in Ocean and Monmouth Counties.

Burlington County
Palmyra to Marlton 19 1815EST 2015EST 0 0 Flash Flood
Thunderstorms with very heavy rain caused considerable urban and poor drainage flooding as well as creek flooding from Palmyra Township south to Evesham Township in Burlington County. Adjusted Doppler Radar storm total estimates indicated that 4 to 5 inches of rain fell within a three hour period in this area. In Mount Laurel Township, State Route 38 near Interstate 295 was flooded. South Jersey Regional Airport in Lumberton Township reported a storm total of 3.04 inches. Elsewhere in the county, the heavy rain apparently contributed to a fatal accident in which three teenage boys were killed on State Route 38 in Southampton Township. The driver was heading westbound and lost control of the vehicle and veered into the eastbound lanes where it struck another vehicle.

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Ocean County

Jackson

Thunderstorm Wind (G50)

19 1830EST

A severe thunderstorm knocked down a few trees, limbs and wires in Jackson Township. Jersey Central Power and Light reported that 5,000 of its customers lost power due to the winds and lightning on the 19th in Ocean and Monmouth Counties.

Mercer County

Princeton

Tstm Wind/Hail

20 0900EST

In a delayed reaction, a nearly two century old silver maple tree came down in pieces over the weekend of July 20th and 21st in a driveway of a Princeton Borough home. Officials believed the winds and rain on the 19th weakened the tree.

Sussex County

Montague

Thunderstorm Wind (G52)

23 1450EST

A severe thunderstorm knocked down a few trees along Clove Road (County Route 653) in Montague Township.

Sussex County

Central Portion

Thunderstorm Wind (G52)

23 1515EST

A severe thunderstorm knocked down trees and power lines in the central part of Sussex County. Traffic lights were out along U.S. Route 206.

Warren County

Blairstown to Lower Harmony

Thunderstorm Wind (G52)

23 1540EST

A severe thunderstorm knocked down a few trees and several large limbs and wires across western parts of Warren County. Wind damage was reported in Blairstown, Harmony and White Townships.

Sussex County

Stanhope

Thunderstorm Wind (G50)

23 1600EST

A severe thunderstorm knocked down a couple of trees in Stanhope Borough. One fallen large tree demolished a bank sign and blocked a roadway.

Morris County

Montville

Thunderstorm Wind (G50)

23 1630EST

A severe thunderstorm knocked down a couple of trees in Boonton and Montville Townships.

NJZ007>010-012>026


Excessive Heat

28 0900EST

Another hot and very humid air mass moved into New Jersey on the 28th. In most areas this hot spell produced some of the highest heat indices of the summer as they reached around 105°F during the afternoon of the 29th. Even shore areas baked on the 29th and 30th as westerly winds kept the sea breeze from forming. July 30th was the hottest day (99 degrees) of the summer at the Atlantic City Marina. The string of days with high temperatures of 90 degrees or higher for inland locations did not end until August 5th or 6th. There were several reports of heat related illnesses, most were along the shore. Cooling centers for senior citizens were opened in Middlesex County. The hot weather and high humidity levels taxed electric utilities and the PJM Interconnection issued a usage advisory. Both Jersey Central Power and Light and Conectiv Power Delivery asked customers to use electricity prudently.

For most places the highest temperatures with the July part of this hot spell occurred on the 29th and included 101 degrees in New Lisbon (Burlington County), 99 degrees at the Marina within Atlantic City and Belvidere (Warren County), 98 degrees at the Atlantic City International Airport, New Brunswick (Middlesex County), Mount Holly (Burlington County), Pennsauken (Camden County), Beach Haven (Ocean County) and Trenton (Mercer County), 97 degrees in Belmar (Monmouth County), Morristown (Morris County), Somerville (Somerset County), West Deptford (Gloucester County) and Millville (Cumberland County), 96 degrees in Flemington (Hunterdon County) 94 degrees in Avalon (Cape May County) and Sandy Hook (Monmouth County) and 93 degrees in Wildwood (Cape May County).

The hot spell at the end of July cemented the month as being well above normal. The preliminary statewide monthly mean temperature of 76.5 degrees was 2.0 degrees above normal and was tied for the 10th warmest July in New Jersey since 1895. The July monthly mean temperature at the Atlantic City International Airport was 77.1 degrees, 1.8 degrees above normal and the 6th warmest July on record. There were 16 days that the high temperatures was 90 degrees or higher. The July monthly mean temperature at the Marina within Atlantic City was 77.2 degrees, 2.0 degrees above normal and the 5th warmest July on record.

The July monthly mean temperature in Trenton was 77.3 degrees, 1.4 degrees above normal. There were 15 days that the high temperatures was 90 degrees or higher.
Dry weather dominated for many areas throughout the month. The long awaited summer thunderstorm season began about a week late and with early rainfall amounts that were light and spotty. Hopes for drought relief were dashed during the mid-month as a high pressure center rebuilt over the state and suppressed the showers. Following several weeks of abnormally dry weather at mid-month, showers returned but were brought by unusual northeast to southwest upper level winds. By the end of the month higher elevation forest areas had had enough rain and higher humidity to allow the re-opening of federal and state recreational lands that had been closed due to extreme fire danger since early June or for one the longest closure periods on record. Runoff from rains, however, was still light and new worries began that the Rio Grande River would run dry near Albuquerque before the end of summer.

A storm produced heavy rain and road flooding from Encino east to Vaughn, while another dumped large hail east of Santa Rosa. Heavy rain of 2 inches in less than an hour caused widespread street flooding and stranded motorists in low water crossings across Clovis.

Heavy rain filled low water crossings along Walnut Creek in far southern Chaves County. State Road 2 had water topping the ditches and into travel lanes near the Chaves-Eddy County line.
NEW MEXICO, Central and North

Bernalillo County
Albuquerque  19  1350MST 1420MST  0  0  Heavy Rain
Heavy rain of near 1 inch an hour moved over Albuquerque causing a quick surge into city drainage and arroyo channels. Two men were caught in an arroyo by the fast moving flow but were rescued before injury by city fire fighters who had been put on Swift Water Rescue Alert.

Valencia County
Valencia County  19  1435MST 1440MST  0  0  3K  Thunderstorm Wind
Thundertorm winds damaged porch coverings attached to several mobile homes in the El Cerro community, while heavy rain caused swift run off into small arroyos and enough erosion to block several dirt roads leading into the Meadow Lake area.

Socorro County
12 E Los Lunas  19  1530MST 1500MST  0  0  Heavy Rain
Thundertorm winds damaged porch coverings attached to several mobile homes in the El Cerro community, while heavy rain caused swift run off into small arroyos and enough erosion to block several dirt roads leading into the Meadow Lake area.

Socorro County
15 S Socorro  19  1649MST  0  0  Hail(0.75)
A storm with hail and heavy rain moved over central Socorro County. Wide spread ditch and road flooding was reported by a spotter from Lemitar.

Bernalillo County
Albuquerque  20  1830MST 1850MST  0  0  Flash Flood
Heavy rain with swift water into arroyos and through low water crossings was reported in the foothills neighborhoods of northeast Albuquerque.

Mckinley County
Gallup  22  1315MST 1500MST  0  0  100K  Flash Flood
One to two inches of rain from a slow moving thunderstorm caused wide spread street flooding in Gallup. Debris clogged city drainage which aggravated flooding in the older down town section. Water reached 18 to 24 inches deep in several business and two homes.

Santa Fe County
2 W Edgewood  29  1200MST  0  0  Hail(0.75)
Guadalupe County
Dilia  29  1538MST  0  0  Hail(0.75)

Colfax County
12 NW Cimarron  29  1640MST 1720MST  0  0  Flash Flood
Heavy debris runoff and flash flooding from recent burnt areas were reported from both Ponil and North Ponil Canyons on the Philmont Scout Ranch. An archaeological team had advanced warning and moved to safe terrain ahead of the dangerous flows.

NEW MEXICO, South Central and Southwest

Grant County
(Svc)Silver City Arpt  01  1531MST  0  0  10K  Thunderstorm Wind (G66)M
A microburst measured at 66 kts (75 mph) collapsed a hangar roof and blew down a chain link fence at a USFS air tanker base (east edge of the airport).

Otero County
5 E Cloudcroft  02  1520MST 1540MST  0  0  Hail(1.00)
Hail up to the size of quarters covered the ground to a depth of 2 inches.

Otero County
12 S Alamogordo  02  1745MST 1800MST  0  0  25K  Thunderstorm Wind
Thunderstorm outflow blew down billboards, power lines and trees, and left at least one house without a roof.
### Storm Data and Unusual Weather Phenomena

**NEW MEXICO, South Central and Southwest**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dona Ana County</td>
<td>02 1945MST</td>
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<td>Las Cruces</td>
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<td>Dona Ana County</td>
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<td>Thunderstorm Wind (G55)</td>
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<tr>
<td>10 E Las Cruces</td>
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<td>02 2010MST</td>
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<td>11 E Anthony</td>
<td>04 1540MST</td>
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<tr>
<td>Dona Ana County</td>
<td>16 1740MST</td>
<td>Flash Flood</td>
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<tr>
<td>10 NW Radium Spgs</td>
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<tr>
<td>Sierra County</td>
<td>17 1800MST</td>
<td>Flash Flood</td>
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<td>Dona Ana County</td>
<td>30 1720MST</td>
<td>Urban/Sml Stream Fld</td>
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**NEW MEXICO, Southeast**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
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<tbody>
<tr>
<td>Eddy County</td>
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<td>Carlsbad</td>
<td></td>
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<tr>
<td>04 1900MST</td>
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<tr>
<td>04 2000MST</td>
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<tr>
<td>04 2100MST</td>
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<td></td>
</tr>
<tr>
<td>Eddy County</td>
<td>04 1937MST</td>
<td>Thunderstorm Wind (G50)</td>
</tr>
<tr>
<td>5 S Carlsbad</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eddy County</td>
<td>04 2000MST</td>
<td>Hail (0.75)</td>
</tr>
<tr>
<td>5 S Carlsbad</td>
<td></td>
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</tr>
<tr>
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<tr>
<td>Eddy County</td>
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<tr>
<td>4 S Hope</td>
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<td>Eddy County</td>
<td>05 1700MST</td>
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<td>8 S Hope</td>
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### Storm Data and Unusual Weather Phenomena

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<td>Flash Flood</td>
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<tr>
<td>2000MST</td>
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</table>

The Artesia Police Department reported water 3 feet deep along County Road 229 east of Artesia.

### Storm Data and Unusual Weather Phenomena

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Eddy County

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Eddy County

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<td>Flash Flood</td>
</tr>
<tr>
<td>Carlsbad</td>
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</tbody>
</table>

Numerous reports of water over roads in the city of Carlsbad resulted in some roads being baracaded.

### Storm Data and Unusual Weather Phenomena

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<tbody>
<tr>
<td>Eddy County</td>
<td>05 1625MST</td>
<td>Thunderstorm Wind (G61)</td>
</tr>
<tr>
<td>1630MST</td>
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</tbody>
</table>

Very strong thunderstorm outflow winds destroyed a barn south of the community of Hope in northwest portions of Eddy County.

### Storm Data and Unusual Weather Phenomena

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>Eddy County</td>
<td>05 1630MST</td>
<td>Hail (0.75)</td>
</tr>
<tr>
<td>4 S Hope</td>
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Eddy County

<table>
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<th>Date</th>
<th>Character of Storm</th>
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</thead>
<tbody>
<tr>
<td>Eddy County</td>
<td>05 1700MST</td>
<td>Flash Flood</td>
</tr>
<tr>
<td>1930MST</td>
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</tbody>
</table>

Three feet of water was reported on Highway 12 south of the community of Hope as Walnut Creek flooded and overflowed its banks.

### Storm Data and Unusual Weather Phenomena

<table>
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<th>Character of Storm</th>
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<td>Flash Flood</td>
</tr>
<tr>
<td>1930MST</td>
<td></td>
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</tr>
</tbody>
</table>
NEW MEXICO, Southeast

Eddy County
12 NW Carlsbad 05 1716MST 0 0 0 0 Hail(1.00)
One inch diameter hail stopped traffic along Highway 285 west of Brantley Lake State Park.

Eddy County
7 NW Carlsbad 05 1815MST 0 0 0 0 Hail(1.00)
One inch diameter hail was reported along Highway 285.

Eddy County
Carlsbad 05 1830MST 0 0 0 0 Hail(0.88)

Eddy County
3 N Carlsbad 05 1840MST 0 0 0 0 Flash Flood
Flooding was reported along the truck bypass through Happy Valley, north of Carlsbad.

Eddy County
Carlsbad 05 1844MST 0 0 0 0 Hail(0.88)
Nickel size hail was reported in the western portions of the city of Carlsbad.

Lea County
9 NE Knowles 06 1140MST 0 0 0 0 Hail(0.75)

Eddy County
Carlsbad 06 1730MST 0 0 0 0 Flash Flood
Flooding was reported on the New Mexico Highway 524 Truck Bypass. Flood waters were as high as one and a half feet deep. Two to three inches of standing water was also reported on roadways across the city of Carlsbad.

NEW YORK, Central

Otsego County
Cooperstown 04 1500EST 10K Thunderstorm Wind (G60)
Trees and power lines were downed due to thunderstorm winds. One tree fell on a car.

Broome County
Endicott 19 1330EST 5K Lightning
Lightning struck a two family house on Oak Hill Avenue in Endicott. It started a small fire in the attic. No one was home at the time of the lightning strike.

Sullivan County
Tusten 19 1400EST 200K Lightning
Lightning struck Cortese Auto Body Shop on Route 97. The lightning started an electrical fire which spread quickly to several cans of paint thinner and paint. The building was completely engulfed by the time the fire department arrived. Two people inside the building at the time of the strike got out uninjured. The shop was a total loss. A school bus, several other vehicles, tools and equipment in the shop were all destroyed.

Oneida County
Forestport 22 1915EST 2K Thunderstorm Wind (G50)
Thunderstorm winds knocked down a tree which took with it several power lines. The tree and wires came down on Route 28 in the town of Forestport north of the hamlet of Alder Creek. Route 28 was closed for several hours. The time of the tree and wires coming down is approximate.

Sullivan County
Countywide 23 1330EST Thunderstorm Wind (G55)
Trees down.

Steuben County
Hornell to Bath 28 1630EST 2K Thunderstorm Wind (G50)
Trees and wires were downed in Hornell and North Hornell. 600 customers lost electric power. Two people were injured from a falling tree branch in Hornell at the corner of Main and Collier Streets. The male victim suffered a shoulder injury while the female victim suffered head and neck injuries. The woman was treated and released at the hospital. In Bath a tree fell on a barn and another tree fell on County Route 24. A tree also fell in Almond.
NEW YORK, Central

Cayuga County
Weedsport to Sennett

28  1720EST  1725EST
0  0  3K
Thunderstorm Wind (G55)

Several trees and wires downed.

Onondaga County
Mottville

28  1740EST  1740EST  50  0  0  2M
Tornado (F1)

The tornado touched down briefly in the hamlet of Mottville which is in the town of Skaneateles. The tornado's path length was approximately 100 yards and its width was approximately 50 yards. A trailer home was destroyed in the center of Mottville. The 67 year old man who lived in it got out of the debris afterward with only a few scratches. In addition, several large trees were sheared off 10 to 20 feet above the ground. Falling trees damaged several homes and businesses in the area. The Mottville post office opened the next morning despite two large pine trees lying on the roof. The storm continued south into the center of the village of Skaneateles. Damage in this area was due to straight line winds. There were no deaths or serious injuries caused by the tornado. A state of emergency was declared in the town of Skaneateles.

Onondaga County
Skaneateles to Otisco

28  1740EST  1800EST
0  0  1M
Thunderstorm Wind (G60)

Thunderstorms winds downed numerous trees and wires from Skaneateles through Marcellus, Marietta, and Amber to Otisco. The worst damage was in the village of Skaneateles. In the village an antique boat show was wrapping up. The wind overturned many sailboats on the lake. West Lake Road was hard hit. The wind sheared off the roof of an apartment building on Jordan Road in Skaneateles. A state of emergency was declared in the village and town of Skaneateles. Trees fell on a few houses. More than 3,000 customers lost electricity.

Cayuga County
Scipio Center

28  1749EST
0  0
Thunderstorm Wind (G50)

Trees and wires down.

Oneida County
Utica Arpt

28  1810EST
0  0
Hail(1.00)

One inch hail reported by the ASOS observer at the Oneida County airport in Oriskany outside of Utica.

Cortland County
Homer to Cuyler

28  1810EST  1820EST
0  0
Thunderstorm Wind (G55)

Scattered trees down in Homer, Preble, Truxton, and Cuyler.

NEW YORK, Coastal

NYZ067>081
Orange - Putnam - Rockland - Northern Westchester - Southern Westchester - New York (Manhattan) - Bronx - Richmond (State Is.) - Kings (Brooklyn) - Queens - Nassau - Northwest Suffolk - Northeast Suffolk - Southwest Suffolk - Southeast Suffolk

01  0000EST  0000EST
31  2359EST
Drought

After an encouraging 4 month period of increased rainfall and improved drought conditions, the region experienced a disappointing setback during July. Rainfall during July was well below normal. The Brookhaven Hydrologic Service Area (HSA) received 1.62 inches of rain, which was 41 percent of normal or 2.33 inches below normal. If there was a "bright" spot, rainfall was slightly higher across New York City's Croton and Catskill Watersheds, which averaged 60 to 70 percent of normal.

At the end of July, a majority of the streams monitored in real time by the U. S. Geological Survey in New York, were classified as having streamflows below normal.

The combined storage in the New York City reservoir system on July 31st was 80.2 percent capacity, which was 10.3 percent below normal. Capacities in the individual reservoirs on July 31st were:

Croton System  89.1% (Percent capacity)
Roundout Reservoir  97.3%
Ashokan Reservoir  76.9%
Schoharie Reservoir  53.9%
Cannonsville Reservoir  75.0%
Pepacton Reservoir  79.5%
Neversink Reservoir  76.4%
NEW YORK, Coastal

The New York State Department of Environmental Conservation extended the Drought Warning for Long Island, New York City, Rockland and Westchester Counties through July 31st. The Drought Watch for Orange and Putnam Counties was also extended through July 31st.

NYZ067>081 Orange - Putnam - Rockland - Northern Westchester - Southern Westchester - New York (Manhattan) - Bronx - Richmond (Staten Is.) - Kings (Brooklyn) - Queens - Nassau - Northwest Suffolk - Northeast Suffolk - Southwest Suffolk - Southeast Suffolk

Temperatures rose into the mid and upper 90s across the region. Overnight low temperatures remained in the lower 80s on the third and fourth in highly urbanized areas throughout the New York City Metropolitan Area. Overall, temperatures averaged 10 to 15 degrees above normal. On July 4th, the temperature reached 98 degrees at LaGuardia Airport, which set a new record high temperature. High temperatures and humidities combined to produce heat indices from 100 to 105 degrees throughout the region. Many cooling centers were opened across the city. On July 4th, the New York Times reported, “Hospital emergency rooms reported some heat exhaustion cases and other heat-related ailments. Small power failures throughout the day left as many as 20,000 homes without electricity.”

A spotter reported nickel size hail.

A spotter reported nickel size hail.

Lightning strikes caused several fires in the area, including a circa 1910 colonial home on Rock Ledge Place. About 1400 customers lost power due to these storms.

Severe thunderstorm wind gusts knocked down several large tree limbs in White Plains and numerous large trees in East White Plains. The winds and falling trees also downed several power lines in the area, causing about 4600 residents to lose power. The Bronx River Parkway was closed for approximately two hours after a large tree had fallen and blocked the road.

A spotter, and local media reported that strong thunderstorm wind gusts knocked several large tree limbs and power lines down. Local newspapers reported that about 7000 homes and businesses lost power for anywhere from a few hours to about a day.

Spotters reported that severe thunderstorm winds knocked down several trees.

<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>Character of Storm</th>
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<tr>
<td>Westchester County Ardsley</td>
<td>09</td>
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<td></td>
<td>0</td>
<td>0</td>
<td>Lightning</td>
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<td>1530EST</td>
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<td>1600EST</td>
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<td></td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G50)</td>
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</table>
NEW YORK, Coastal

A spotter reported that severe thunderstorm winds ripped roofing shingles off several houses in Chestnut Ridge. A TV Meteorologist reported large trees downed in Nyack and boats overturned on the Hudson River from severe thunderstorm winds.

**Rockland County**

**West Nyack**

- **Date**: 19 1615EST
- **Killed**: 0
- **Injured**: 0
- **Damage**: Flood

Torrential rain occurred in and around West Nyack. Radar estimated rainfall rates between 2 and 4 inches within 1 hour. This caused a roof drain to overflow at the Palisades Center Mall in West Nyack. Rain water infiltrated the structure resulting in the flooding of many stores, a partial wall collapse at a JC Penny's Department store and the evacuation of the mall.

**Orange County**

**Ridgebury to Newburgh**

- **Date**: 23 1500EST
- **Killed**: 0
- **Injured**: 0
- **Damage**: Thunderstorm Wind (G50)

A spotter reported that severe thunderstorm winds knocked numerous trees down in Ridgebury, Warwick, Goshen, and Newburgh. This resulted in downed power lines and an interruption in service for about 36,000 electricity customers. In Mongaup Valley, a 50 foot pine tree was snapped in two and fell across a yard.

**Orange County**

**Blooming Grove**

- **Date**: 23 1550EST
- **Killed**: 0
- **Injured**: 0
- **Damage**: Thunderstorm Wind (G50)

Local police reported several trees and power lines down due to severe thunderstorm winds.

**Westchester County**

**Bedford**

- **Date**: 23 1615EST
- **Killed**: 0
- **Injured**: 0
- **Damage**: Thunderstorm Wind (G50)

Local police reported that severe thunderstorm winds knocked several trees down.

NYZ067>081

Orange - Putnam - Rockland - Northern Westchester - Southern Westchester - New York (Manhattan) - Bronx - Richmond (Staten Is.) - Kings (Brooklyn) - Queens - Nassau - Northwest Suffolk - Northeast Suffolk - Southwest Suffolk - Southeast Suffolk

- **Date**: Jul 29 0000EST
- **Killed**: 0
- **Injured**: 0
- **Damage**: Excessive Heat

An eight day "heat wave" began on July 29th and extended through August 5th across the region. High temperatures rose into the mid and upper 90s from July 29th through the 31st. These temperatures combined with humidity produced heat indices from 100 to 105 degrees on the 29th and from around 95 to 100 on the 30th and 31st.

NEW YORK, East

NYZ032>033-043-047>054-058>061-063>066


- **Date**: Jul 29 0000EST
- **Killed**: 0
- **Injured**: 0
- **Damage**: Smoke

Smoke, from many forest fires across the Nemiscau region of northern Quebec, became trapped under a subsidence inversion, and was transported south cross eastern New York from the evening hours of July 5, to the late evening of July 7. The forest fires were sparked by exceptionally hot and dry weather over that part of Canada followed by an unusual amount of thunderstorm activity, resulting in many lightning strikes. The circulation between high pressure over Hudsons Bay and a low pressure off the Canadian Maritimes transported the smoke southward. The smoke obscured the sky, and even reduced surface visibilities to as low as one mile, especially on the early morning of July 7. Advisories were issued warning people with respiratory problems to remain indoors and all individuals to curb outside activity. No major problems were reported to the National Weather Service as a result of this smoke. By late Sunday, July 7, the low pressure weakened and moved further east, allowing the wind to back into more of a westerly direction, finally dissipating the smoke.

236
NEW YORK, East

Fulton County
Caroga Lake
On the early afternoon of July 9, lightning struck a tree at the Caroga Lake Campsite, in the town of Caroga Lake, Fulton County. The lightning took the bark off and traveling up through the roots as well as the surrounding blacktop. The current also ran through a child and his grandfather. The two individuals were thrown into the air and then fell to the ground. They were stunned and briefly paralyzed. Both victims were burned and admitted to the Westchester Medical Center in fair condition.

Saratoga County
Edinburg
Thunderstorm Wind

Saratoga County
Quaker Spgs
Thunderstorm Wind

Saratoga County
Stillwater
Thunderstorm Wind

Washington County
Easton
Hail(0.75)

A weak upper level disturbance triggered scattered thunderstorms across portions of eastern New York during the afternoon of July 18. Two cells became briefly severe. The first severe storm, in Saratoga County, produced significant wind damage as trees fell on wires at Spiers Falls Dam, in the town of Edinburg. The second cell moved across eastern Saratoga County where trees and wires were blown down at the intersection of Rts 32 and 4 in Stillwater as well as Quaker Springs. The storm then moved into Washington County and produced dime sized hail in the town of Easton.

Albany County
Westerlo
Flash Flood

Scattered thunderstorms erupted in a very humid air mass, ahead of a cold front, during the afternoon of July 19. A series of thunderstorms trained across western Albany County, producing torrential rainfall in an area of steep terrain. Doppler radar estimated in excess of 3 inches falling in a short interval of time. The net result was flash flooding. Numerous gravel roads and driveways were reported washed out in the towns of Westerlo, Rensselaerville and New Scotland.

Montgomery County
Amsterdam
Thunderstorm Wind

Albany County
Bethlehem Center
Thunderstorm Wind

Saratoga County
Stillwater
Thunderstorm Wind

Rensselaer County
Poestenkill
Thunderstorm Wind

Columbia County
Kinderhook
Thunderstorm Wind

Greene County
Coxsackie
Thunderstorm Wind

Columbia County
Hillsdale
Thunderstorm Wind

Ulster County
Saugerties South
Thunderstorm Wind

Dutchess County
Millerton
Thunderstorm Wind

Dutchess County
Poughkeepsie
Thunderstorm Wind

Ulster County
Ulster Hgts
Thunderstorm Wind

Ulster County
Gardiner
Thunderstorm Wind

A cold front, working southeast across the Empire State, triggered a broken line of thunderstorms across eastern New York during
the midday hours of July 23. Since the air mass ahead of the front was hot and humid, and winds aloft rather strong, some of the storms became severe. Thunderstorm winds produced tree damage in at least one place in Montgomery, Albany, Saratoga and Ulster Counties. In Coxsackie, Green County, in addition to small trees being blown down, thunderstorm winds blew a roof off a trailer. In the town of Hillsdale, Columbia County, several trees and some wires were blown down. One tree fell on a car. In Ulster Heights, Ulster County, a large tree fell on a tree house, destroying it. In Dutchess County, a microburst up to 50 yards wide knocked down many trees in the town of Millerton. One large tree fell on a house. Also in Dutchess County, more trees and wires were blown down in the town of Poughkeepsie. One of the trees blown down was a 120-foot high tree, planted by Samuel Morse in 1860. The storms knocked out power to 13,500 customers in eastern New York, with 12,000 of those in Dutchess County alone.

NEW YORK, North

NONE REPORTED.

NEW YORK, West

Ontario County
Victor 22 1458EST 0 1 45K Thunderstorm Wind (G55)
Wayne County
Palmyra 22 1510EST 0 0 15K Thunderstorm Wind (G50)
Ontario County
Naples 22 1610EST 0 0 10K Thunderstorm Wind (G50)
Chautauqua County
Kiantone 22 1650EST 0 0 25K Thunderstorm Wind (G50)
Jefferson County
Sackets Harbor 22 1650EST 0 0 15K Thunderstorm Wind (G50)
Oswego County
Pulaski 22 1720EST 0 0 10K Thunderstorm Wind (G50)
Jefferson County
Black River 22 1725EST 0 0 15K Thunderstorm Wind (G52)\textsuperscript{M}
Jefferson County
North Wilna 22 1740EST 0 0 10K Thunderstorm Wind (G50)
Lewis County
Castorland 22 1740EST 0 0 10K Thunderstorm Wind (G50)
Lewis County
Croghan 22 1800EST 0 0 15K Thunderstorm Wind (G50)

Thunderstorms moves across the area during the afternoon and evening hours. The thunderstorm winds downed trees and power lines. Scattered telephone and power outages were reported. In Victor, a tree came down on a car. One person was taken to a local hospital with minor injuries.

Erie County
Collins 28 0320EST 0 0 15K Thunderstorm Wind (G50)
Chautauqua County
Fredonia 28 0330EST 0 0 15K Thunderstorm Wind (G50)
Chautauqua County
Stockton 28 0515EST 0 0 50K Thunderstorm Wind (G55)
Cattaraugus County
Dayton 28 0530EST 0 0 10K Thunderstorm Wind (G50)
Chautauqua County
Lakewood 28 1505EST 0 0 35K Hail(1.00)
Chautauqua County
Kennedy 28 1515EST 0 0 15K Thunderstorm Wind (G50)
**NEW YORK, West**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
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**NORTH CAROLINA, Central**

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*Downburst winds accompanying thunderstorms across the southern tier and parts of the Finger Lakes produced isolated downed trees and power lines. Thunderstorms re-developed during the afternoon and evening hours. As many as 15,000 were without power in the southern tier for several hours. A falling tree struck a house in Fredonia. Gusts toppled signs along the Thruway. Several roads were totally blocked by fallen trees. Heavy downpours that accompanied the afternoon thunderstorms resulted in some poor drainage flooding in the Southern Tier.*

*Thunderstorms developed ahead of an advancing cold front. The thunderstorm winds downed trees and power lines and scattered outages were reported.*
NORTH CAROLINA, Central

Lightning started at least three house fires around Chapel Hill. The worst damage was sustained at a condominium complex on Copperline Drive.

Guilford County  
3 NE High Pt  
02 1633EST  
0 0  
Hail(0.88)

Montgomery County  
Candor  
02 2300EST  
0 0  
Hail(0.75)

Edgecombe County  
Rocky Mt  
02 1630EST  
0 0 25K  
Lightning

Randolph County  
Asheboro  
02 1700EST  
0 1  
Lightning

A woman was injured when lightning struck nearby.

Richmond County  
Robberdel  
03 1500EST  
0 0  
Thunderstorm Wind (G50)

Trees were blown down.

Forsyth County  
Winston Salem  
03 1515EST  
0 0  
Hail(1.00)

Quarter sized hail was reported in the west side of Winston Salem near County Club Road.

Anson County  
Morven  
03 1540EST  
0 0  
Thunderstorm Wind (G50)

Trees were blown down.

Guilford County  
Stokesdale  
03 1620EST  
0 0  
Hail(1.75)

Warren County  
Warrenton  
03 2025EST  
0 0  
Hail(1.00)

Guilford County  
Greensboro  
04 1440EST  
0 0  
Hail(0.88)

Guilford County  
Greensboro  
04 1505EST  
0 0  
Hail(0.75)

Orange County  
Orange Grove  
04 1650EST  
0 0  
Thunderstorm Wind (G50)

Trees were blown down, one fell onto a house.

Wake County  
Raleigh  
04 1700EST  
0 0  
Hail(0.88)

Moore County  
Robbins  
04 1755EST  
0 0  
Thunderstorm Wind (G50)

Trees and powerlines were blown down.

Alamance County  
Burlington  
04 1815EST  
0 3  
Lightning

Three people suffered minor injuries when lightning struck nearby at a campground.

Alamance County  
Mebane  
04 1827EST  
0 0 20K  
Lightning

A barn on High Rock Road was destroyed by a lightning strike. Three cows in the barn were killed.

Johnston County  
Micro  
05 1620EST  
0 0  
Thunderstorm Wind (G50)

A 70-foot Ham radio tower was blown down near Micro.

Johnston County  
Smithfield  
05 1650EST  
0 0  
Hail(0.88)

Franklin County  
Centerville  
05 1659EST  
0 0  
Thunderstorm Wind (G50)

Trees were blown down.
A spotter measured a 55 knot wind gust.

A downburst caused several blocks of damage in Selma. Several trees were uprooted, and some homes were slightly damaged. A portion of a roof on a school was blown off. The greatest damage was within 10 city blocks of Green Street.

Trees were blown down.

A roof on a sun room was damaged.

Trees and powerlines were blown down in Fuquay-Varina.

Motorists were stranded on flooded roads in Wilson; Highway 264 in Wilson was flooded.

Flooding was reported on Nobles-Millpond Road, Powell Road, and Wedgecombe Road.

Lightning started at least four house fires across Wayne county, most occurring near Goldsboro.

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Trees were blown down, and crops were ripped and torn on Old School Road. A barn and some small shelters were destroyed.

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### NORTH CAROLINA, Central

**Person County**

Roxboro

- **Time:** 10 1815EST
- **Path Length (Miles):** 0
- **Path Width (Yards):** 0
- **Number of Persons Killed:** 0
- **Number of Persons Injured:** 0
- **Estimated Damage:** Thunderstorm Wind (G50)

Two barns and several trees were blown down.

Trees were blown down along Highway 501 just south of Roxboro.

**Halifax County**

Scotland Neck

- **Time:** 10 1850EST
- **Path Length (Miles):** 0
- **Path Width (Yards):** 0
- **Number of Persons Killed:** 0
- **Number of Persons Injured:** 0
- **Estimated Damage:** Thunderstorm Wind (G60)

Near Winslow Road and Stampersiding Road, trees were blown down, one falling on a car and a trailer. Grain barns and sheds were damaged, and irrigation systems were flipped over.

**Nash County**

Sharpsburg

- **Time:** 22 1510EST
- **Path Length (Miles):** 0
- **Path Width (Yards):** 0
- **Number of Persons Killed:** 0
- **Number of Persons Injured:** 0
- **Estimated Damage:** Thunderstorm Wind (G50)

Trees and power lines were blown down.

**Chatham County**

Goldston

- **Time:** 22 1600EST
- **Path Length (Miles):** 0
- **Path Width (Yards):** 0
- **Number of Persons Killed:** 0
- **Number of Persons Injured:** 0
- **Estimated Damage:** Thunderstorm Wind (G50)

Several trees were blown down near Goldston and Bear Creek.

**Davidson County**

Wallburg

- **Time:** 22 1600EST
- **Path Length (Miles):** 0
- **Path Width (Yards):** 0
- **Number of Persons Killed:** 0
- **Number of Persons Injured:** 0
- **Estimated Damage:** Lightning

Lightning started a fire in a home.

**Randolph County**

Randleman

- **Time:** 22 1630EST
- **Path Length (Miles):** 0
- **Path Width (Yards):** 0
- **Number of Persons Killed:** 0
- **Number of Persons Injured:** 0
- **Estimated Damage:** Thunderstorm Wind (G50)

A garage and two attached outbuildings were blown 50 yards and destroyed.

**Cumberland County**

Fayetteville

- **Time:** 22 1640EST
- **Path Length (Miles):** 0
- **Path Width (Yards):** 0
- **Number of Persons Killed:** 0
- **Number of Persons Injured:** 0
- **Estimated Damage:** Lightning

Lightning set fire to a home.

**Harnett County**

- **Time:** 31 1900EST
- **Path Length (Miles):** 0
- **Path Width (Yards):** 0
- **Number of Persons Killed:** 0
- **Number of Persons Injured:** 0
- **Estimated Damage:** Thunderstorm Wind (G50)

Trees were blown down on Highway 27.

### NORTH CAROLINA, Central Coastal

**Pitt County**

- **5 E Greenville**
  - **Time:** 04 1540EST
  - **Path Length (Miles):** 0
  - **Path Width (Yards):** 0
  - **Number of Persons Killed:** 0
  - **Number of Persons Injured:** 0
  - **Estimated Damage:** Hail(0.75)

**Pitt County**

- **2 S Greenville**
  - **Time:** 04 1611EST
  - **Path Length (Miles):** 0
  - **Path Width (Yards):** 0
  - **Number of Persons Killed:** 0
  - **Number of Persons Injured:** 0
  - **Estimated Damage:** Hail(0.88)

**Pitt County**

- **Grifton**
  - **Time:** 04 1645EST
  - **Path Length (Miles):** 0
  - **Path Width (Yards):** 0
  - **Number of Persons Killed:** 0
  - **Number of Persons Injured:** 0
  - **Estimated Damage:** Hail(0.75)

**Craven County**

- **Ft Barnwell**
  - **Time:** 05 1730EST
  - **Path Length (Miles):** 0
  - **Path Width (Yards):** 0
  - **Number of Persons Killed:** 0
  - **Number of Persons Injured:** 0
  - **Estimated Damage:** Hail(0.75)

**Pitt County**

- **1 E Greenville**
  - **Time:** 05 1910EST
  - **Path Length (Miles):** 0
  - **Path Width (Yards):** 0
  - **Number of Persons Killed:** 0
  - **Number of Persons Injured:** 0
  - **Estimated Damage:** Hail(1.00)

**Duplin County**

- **Chinquapin**
  - **Time:** 05 1920EST
  - **Path Length (Miles):** 0
  - **Path Width (Yards):** 0
  - **Number of Persons Killed:** 0
  - **Number of Persons Injured:** 0
  - **Estimated Damage:** Hail(1.75)

**Jones County**

- **Trenton**
  - **Time:** 05 1945EST
  - **Path Length (Miles):** 0
  - **Path Width (Yards):** 0
  - **Number of Persons Killed:** 0
  - **Number of Persons Injured:** 0
  - **Estimated Damage:** Thunderstorm Wind (G62)\(^M\)

**Onslow County**

- **Sneads Ferry**
  - **Time:** 05 2020EST
  - **Path Length (Miles):** 0
  - **Path Width (Yards):** 0
  - **Number of Persons Killed:** 0
  - **Number of Persons Injured:** 0
  - **Estimated Damage:** Thunderstorm Wind (G52)\(^M\)

**Duplin County**

- **Albertson**
  - **Time:** 10 1320EST
  - **Path Length (Miles):** 0
  - **Path Width (Yards):** 0
  - **Number of Persons Killed:** 3
  - **Number of Persons Injured:** 5K
  - **Estimated Damage:** Thunderstorm Wind (G62)

Severe thunderstorm winds in excess of 70 mph flipped a mobile homes near Scott's Store. Three women who were inside of the mobile home suffered minor injuries.
### Storm Data and Unusual Weather Phenomena

#### July 2002

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NORTH CAROLINA, Central Coastal

A 38 year old Virginia man drown while caught in a rip current in Emerald Isle.

Pamlico County
Wortonville

27 1613EST 0 0 Hail(0.75)

Pitt County
Greenville

27 1730EST 0 0 1K Lightning

Carteret County
Morehead City

27 1905EST 2000EST 0 0 Flash Flood

Up to 4-5 inches of rain fall over Morehead City in a 3 hour time period. This caused flooding of many major roads in Morehead City and Atlantic Beach. Numerous vehicles were flooded and abandoned.

Craven County
New Bern

31 1410EST 0 0 Hail(0.75)

Craven County
Ernul

31 1445EST 0 0 Thunderstorm Wind (G61)

Craven County
New Bern

31 1500EST 0 0 Hail(0.88)

Onslow County
Camp Lejeune

31 1514EST 0 0 Thunderstorm Wind (G56)M

Onslow County
Jacksonville

31 1615EST 1700EST 0 0 Flash Flood

Heavy rain caused the closure of numerous roads in and around Jacksonville. Several cars were flooded.

NORTH CAROLINA, Extreme Southwest

Cherokee County
Andrews

22 1750EST 0 0 Hail(0.75)

Dime size hail was reported in and around Andrews.

Cherokee County
5W Murphy

30 1851EST 0 0 5K Thunderstorm Wind

Numerous trees down in western half of county.

NORTH CAROLINA, North Coastal

Camden County
Camden

04 1315EST 0 0 Hail(0.75)

Currituck County
Moyock

04 1315EST 0 0 Hail(1.00)

Chowan County
Edenton

05 1545EST 0 0 Hail(1.50)

Chowan County
Rockyhock

05 1555EST 0 0 2K Thunderstorm Wind

Trees down.

Bertie County
Lewiston

10 1850EST 0 0 2K Thunderstorm Wind

Numerous large tree limbs and powerlines down.
Ashe County
Thunderstorm Wind
00002Sandy Ridge 1740EST

Stokes County
Thunderstorm Wind
00004Elkin 1615EST

Surry County
Thunderstorm Wind
00004Southwest Portion 1705EST

Yadkin County
Thunderstorm Wind  20K0004 4 W Dobson 1720EST

Surry County
Thunderstorms winds downed trees and power lines in Intelligence during the late afternoon of the 26th.

NORTH CAROLINA, South Coastal

Pender County
Thunderstorm Wind (G52)0005Surf City 2038EST M

New Hanover County
Lightning
06 1500EST 0 3

Storm Data and Unusual Weather Phenomena

Location Date Time/ Path Path Number Estimated Character of Storm
Local/ (Miles) (Yards) Persons Damage Property
Standard

Location
Date
Time/ Local/
Standard

Path Length
(Miles)

Path Width
(Yards)

Number of
Persons

Estimated Damage

Property

Crops

Character of Storm

NORTH CAROLINA, Northwest and North Central

Alleghany County
6.5 ENE Sparta
02 1529EST 0 0 Hail(0.75)

Wilkes County
Mcgrady
02 1615EST 0 0 Hail(0.75)

Alleghany County
Piney Creek
02 1629EST 0 0 Hail(0.75)

Ashe County
Countywide
02 1640EST 0 0 10K Thunderstorm Wind

Stokes County
Sandy Ridge
02 1740EST 0 0 0 Thunderstorm Wind

Watauga County
Deep Gap
03 1532EST 0 0 Hail(0.88)

Ashe County
Countywide
04 1420EST 1435EST 0 0 0 Thunderstorm Wind

Stokes County
Danbury
04 1615EST 0 0 Hail(1.00)

Surry County
Elkin
04 1615EST 0 0 0 Thunderstorm Wind

Yadkin County
Southwest Portion
04 1705EST 0 0 0 Thunderstorm Wind

Surry County
4 W Dobson
04 1720EST 0 0 20K Thunderstorm Wind

Watauga County
Deep Gap
03 1532EST 0 0 0

Ashe County
Countywide
04 1420EST 1435EST 0 0 0

Stokes County
Danbury
04 1615EST 0 0

Surry County
Elkin
04 1615EST 0 0 0

Yadkin County
Southwest Portion
04 1705EST 0 0 0

Surry County
4 W Dobson
04 1720EST 0 0 20K

Watauga County
Deep Gap
03 1532EST 0 0

Ashe County
Countywide
04 1420EST 1435EST 0 0 0

Stokes County
Danbury
04 1615EST 0 0

Surry County
Elkin
04 1615EST 0 0 0

Yadkin County
Southwest Portion
04 1705EST 0 0 0

Surry County
4 W Dobson
04 1720EST 0 0 20K

Watauga County
Deep Gap
03 1532EST 0 0

Ashe County
Countywide
04 1420EST 1435EST 0 0 0

Stokes County
Danbury
04 1615EST 0 0

Surry County
Elkin
04 1615EST 0 0 0

Yadkin County
Southwest Portion
04 1705EST 0 0 0

Surry County
4 W Dobson
04 1720EST 0 0 20K

Watauga County
Deep Gap
03 1532EST 0 0

Ashe County
Countywide
04 1420EST 1435EST 0 0 0

Stokes County
Danbury
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Surry County
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Yadkin County
Southwest Portion
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Surry County
4 W Dobson
04 1720EST 0 0 20K

Watauga County
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Ashe County
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Stokes County
Danbury
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Surry County
Elkin
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Yadkin County
Southwest Portion
04 1705EST 0 0 0

Surry County
4 W Dobson
04 1720EST 0 0 20K
Storm Data and Unusual Weather Phenomena

Location Date Time/ Standard Path Length Path Width Number of Persons Injured Estimated Damage Property Crops Character of Storm

NORTH CAROLINA, South Coastal

Pender County Maple Hill 0010 1530EST 0 0 Thunderstorm Wind (G60) Public reported trees down.

Columbus County Bolton 0010 1600EST 0 0 Thunderstorm Wind (G60) Trees down.

Columbus County Delco 0010 1615EST 0 0 Thunderstorm Wind (G60) Trees down.

Columbus County Lake Waccamaw 0010 2115EST 0 0 Thunderstorm Wind (G60) Law enforcement reported trees down.

New Hanover County Wilmington 0215 2130EST 0 0 Flood 911 center reported standing water on many streets. New Center Drive was closed due to flooding. The overpass at Market Street had 1-2 feet of standing water. Radar estimated between three and four inches of rain fell in this area.

New Hanover County Wilmington 0215 1345EST 0 1 Lightning A women was injured when struck by lightning and was sent to the hospital.

Brunswick County 1 SW Leland 0215 1655EST 0 0 10K Thunderstorm Wind (G56) Spotter estimated thunderstorm wind gusts to 65 mph. The winds damaged a steel frame house under construction. Dime size hail was also reported with this storm.

New Hanover County Wilmington 0215 1715EST 0 0 5K Thunderstorm Wind (G55) 911 dispatch reported a large tree fell on a vehicle.

Brunswick County 4 SE Shallotte to 2 SE Shallotte 0215 1655EST 2 50 0 0 Tornado (F0) A waterspout formed in the Shallote River and briefly moved over land before dissipating. The F0 tornado crossed Gray Bridge Road. There was no damage reported.

New Hanover County Wilmington 0215 1330EST 0 0 Hail(0.75) Dime size hail reported near Oleander and Hydrangea Drives.

Columbus County 5 N Lake Waccamaw 0215 1415EST 0 0 Thunderstorm Wind (G60) Large trees down on power lines.

Bladen County Council 0215 1415EST 0 0 Hail(0.75) Public reported dime size hail.

Robeson County 5 W Rennert 0215 1808EST 0 0 Hail(1.25) Public reported large hail.

NORTH CAROLINA, Southwest

Jackson County Glenville 01 1400EST 0 0 Hail(0.75) Several vehicles received damage.

Transylvania County Rosman to Lake Toxaway 01 1410EST 20K Hail(1.25) Public reported large hail.
NORTH CAROLINA, Southwest

Macon County
11 N Franklin 01 1510EST 0 0 Thunderstorm Wind (G50)
A few trees were blown down.

Macon County
1 NW Franklin 01 1535EST 0 0 Hail(0.75)

Macon County
1 NW Franklin 01 1535EST 0 0 Thunderstorm Wind (G50)
Several trees were blown down on the north side of Franklin.

Buncombe County
3 N Swannanoa 01 1555EST 0 0 Hail(0.88)

Rutherford County
2 SW Forest City 01 1604EST 0 0 Thunderstorm Wind (G50)
Trees were blown down along Newton Cole Rd.

Mecklenburg County
Charlotte 01 1604EST 0 0 Hail(1.00)

Mecklenburg County
Pineville 01 1749EST 0 0 1K Thunderstorm Wind (G50)
Powerlines were blown down in town. Trees were blown down along Highway 51 near Pineville.

Mecklenburg County
Pineville 01 1900EST 0 0 Flash Flood
Cars were stalled in a shopping center parking lot by high water from severe urban flooding. Two people required rescuing from their cars.

Macon County
Scaly 02 1300EST 0 0 5K Hail(1.00)
Hail damaged at least one vehicle.

Jackson County
Cashiers 02 1328EST 0 1 Lightning
A man in a hot tub was struck by lightning.

Buncombe County
Asheville 02 1420EST 0 0 Thunderstorm Wind (G50)
Trees were blown down near the intersection of Interstates 26 and 40.

Buncombe County
Enka 02 1420EST 1440EST 0 0 Hail(0.75)

Madison County
Mars Hill 02 1540EST 0 0 Thunderstorm Wind (G50)
Several trees were blown down.

Madison County
Marshall 02 1545EST 0 0 10K Lightning
Lightning ignited a housefire.

Madison County
Marshall 02 1545EST 0 0 Thunderstorm Wind (G50)
Several trees were blown down.

Avery County
3 NE Linville 02 1615EST 0 0 Hail(0.75)
Hail was reported at Ned's Mountain.

Madison County
Spring Creek 02 1630EST 0 0 Hail(0.75)

Avery County
South Portion 02 1630EST 1900EST 0 0 Flash Flood

247
NORTH CAROLINA, Southwest

Several roads were washed out after 4 to 5 inches of rain fell in a short period of time.

Avery County

Avery County

Minneapolis

02 1700EST 1715EST

0 0

Hail (0.75)

Hail accumulated to depths of 3 inches.

Mecklenburg County

Mecklenburg County

4 N Paw Creek

02 1710EST 1730EST

0 0

Hail (0.75)

Numerous trees and powerlines were blown down.

Mecklenburg County

Mecklenburg County

4 N Paw Creek

02 1710EST 1730EST

0 0 3K

Thunderstorm Wind (G60)

Numerous trees were blown down. The roof of a commercial building received damage.

Gaston County

Gaston County

Belmont

02 1715EST 1730EST

0 0 20K

Thunderstorm Wind (G60)

Numerous powerlines and trees were blown down, including a 60" diameter tree. Some trees were blown on houses. Siding was torn off of a house. 5700 homes were without power.

Mitchell County

Mitchell County

5 N Bakersville

02 1720EST

0 0

Hail (0.75)

Swain County

Swain County

Bryson City

02 1730EST

0 0

Hail (0.75)

Swain County

Swain County

Bryson City

02 1730EST

0 0 10K

Thunderstorm Wind (G60)

Numerous trees were blown down. Two people were injured on the morning of the 3rd, when a large tree damaged by the storm fell.

Rutherford County

Rutherford County

Caroleen to Cliffside

02 1810EST

0 2

Thunderstorm Wind (G55)

Numerous trees were blown down. Two people were injured on the morning of the 3rd, when a large tree damaged by the storm fell.

Davie County

Davie County

5 NE Mocksville

02 1942EST

0 0

Hail (1.00)

Hail was reported at the intersection of Highway 158 and Baltimore Rd.

Madison County

Madison County

5 N Mars Hill

03 1415EST

0 0

Hail (1.75)

Rutherford County

Rutherford County

Forest City

03 1639EST

0 0

Hail (0.75)

Mecklenburg County

Mecklenburg County

Charlotte

03 1656EST

0 0 7.5K

Thunderstorm Wind (G50)

A tree was blown on a car. Several traffic lights and signs were damaged.

Mecklenburg County

Mecklenburg County

11 NE Charlotte

03 1707EST

0 0

Hail (0.75)

Mecklenburg County

Mecklenburg County

11 NE Charlotte

03 1707EST

0 0 20K

Lightning

Lightning struck a house and a condominium, resulting in damage to both.

Mecklenburg County

Mecklenburg County

11 NE Charlotte

03 1707EST

0 0 20K

Thunderstorm Wind (G50)

Trees were blown down onto an apartment complex, resulting in evacuation of some units.

Cabarrus County

Cabarrus County

Harrisburg

03 1715EST

0 0

Hail (1.00)
Storm Data and Unusual Weather Phenomena

### NORTH CAROLINA, Southwest

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<th>Location</th>
<th>Time</th>
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Several trees were blown down at the intersection of Highway 19 and Main St.
### Storm Data and Unusual Weather Phenomena

**July 2002**

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NORTH CAROLINA, Southwest

Numerous trees and powerlines were blown down. One tree fell on and crushed a garage. Scaffolding at a downtown construction site collapsed.

Rutherford County
Lake Lure
04 1830EST
0 0 50K
Lightning

Polk County
Columbus to 5 SW Columbus
04 1900EST
0 0 1K
Thunderstorm Wind (G50)

A few trees and powerlines were blown down.

Mecklenburg County
Charlotte
14 0830EST
0 0
Urban/Sml Stream Fld

Two to three inches of rain fell in a short time, causing local creeks to rise quickly to near bankfull. No creeks reportedly flooded, but usual flood-prone areas in the southern part of the metro area had minor flooding and standing water.

Burke County
Morganton
21 1730EST
0 0 30K
Thunderstorm Wind (G60)

A microburst resulted in the roof being blown off of a business. Large tree limbs were also blown down.

Rowan County
China Grove
22 1430EST
0 0
Lightning

A large tree was struck by lightning.

Swain County
2 W Cherokee
22 1435EST
0 0
Hail(0.75)

Cabarrus County
Concord
22 1545EST
0 0 50K
Thunderstorm Wind (G65)

Numerous trees, some up to 2 feet in diameter were blown down. Some trees fell on homes and businesses. Some traffic lights were also blown out.

Cabarrus County
Concord
22 1545EST
0 0
Urban/Sml Stream Fld

A few streets were flooded.

Gastonia
Gaston County
22 1745EST
0 0
Thunderstorm Wind (G50)

A few trees were blown down.

Madison County
8 N Mars Hill
22 1800EST
0 0
Hail(1.25)

Catawba County
3 E Hickory
22 1830EST
0 0 1K
Thunderstorm Wind (G52)

A few trees and powerlines were blown down.

Cleveland County
2 N Polkville
22 1900EST
0 0
Thunderstorm Wind (G50)

A couple of trees were blown down across roads.

Lincoln County
Triangle
24 1800EST
0 0 50K
Flash Flood

A severe urban flood developed quickly after about 4 inches of rain fell in 2 hours in eastern Lincoln County. Mud and water flowed across the road from a construction site, flooding the parking lot of a shopping center. People were trapped in cars and had to escape through windows. At least one car floated across the parking lot, and water accumulated to depths of 3 feet against store windows and then entered the stores. The water peaked in about 30 minutes and then receded.
**NORTH DAKOTA, Central and West**

- **Bowman County**
  - 12 SE Bowman: 03 2315CST 0 0 Thunderstorm Wind (G52)

- **Adams County**
  - 14 N Hettinger: 04 0050CST 0 0 Hail(0.75)

- **Hettinger County**
  - Regent: 04 1643CST 0 0 Hail(1.00)

- **Williams County**
  - (Isn)Sloulin Fld Wil: 05 0058CST 0 0 Thunderstorm Wind (G50)
  - Tioga: 05 0125CST 0 0 Thunderstorm Wind (G50)

- **Mountrail County**
  - 10 NW White Earth: 05 0150CST 0 0 Thunderstorm Wind (G52)

- **Burke County**
  - Powers Lake: 05 0155CST 0 0 Thunderstorm Wind (G52)

- **Sioux County**
  - 10 W Selfridge to 5 N Selfridge: 05 1100CST 2100CST 0 0 Wild/Forest Fire

- **Billings County**
  - Medora: 08 2310CST 0 0 Thunderstorm Wind (G52)

- **Stark County**
  - (Dik)Dickinson Muni: 08 2331CST 0 0 Thunderstorm Wind (G51)

- **Mcintosh County**
  - 6 NE Ashley: 09 1640CST 0 0 Hail(1.75)
  - 7 NE Ashley: 09 1640CST 1 50 0 0 Tornado (F0)

- **Dickey County**
  - 1 W Forbes: 09 1730CST 0 0 Hail(1.75)
  - 2 N Forbes: 09 1735CST 0 0 Hail(1.00)

- **La Moure County**
  - Berlin: 09 1735CST 0 0 Thunderstorm Wind (G70)

- **La Moure County**
  - Berlin: 09 1735CST 0 0 Hail(1.75)
### NORTH DAKOTA, Central and West

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<td>Numerous reports by a NWS cooperative observer and newspaper of damage to buildings and downed power lines. Several crop fields wiped out by wind and hail.</td>
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### Storm Data and Unusual Weather Phenomena

#### July 2002

<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>
</table>

**NORTH DAKOTA, Central and West**

- **Wells County**
  - **Fessenden to 2 SE Sykeston**
    - Date: 31
    - Time: 2245 CST
    - Storm traveled southeast along Highway 52. Numerous large trees down along its path.
    - Character of Storm: Thunderstorm Wind (G61)

- **Foster County**
  - **Carrington**
    - Date: 31
    - Time: 2253 CST
    - Character of Storm: Hail (0.75)

**NORTH DAKOTA, East**

- **Pembina County**
  - **Joliette**
    - Date: 01
    - Time: 0945 CST
    - Character of Storm: Hail (0.88)

- **Richland County**
  - **3 SW Walcott**
    - Date: 07
    - Time: 1815 CST
    - Character of Storm: Hail (0.88)
  - **4 NE Colfax**
    - Date: 07
    - Time: 1820 CST
    - Tree limbs were blown down.
    - Character of Storm: Thunderstorm Wind
  - **Wahpeton**
    - Date: 07
    - Time: 2008 CST
    - 35 to 40 homes were evacuated after lightning ruptured a gas line. The residents were allowed to return two hours later.
    - Character of Storm: Lightning
    - Lightning struck a duplex and damaged a stove and other electrical appliances. No fire was reported.
  - **Wahpeton**
    - Date: 07
    - Time: 2100 CST
    - Lightning struck a duplex and damaged a stove and other electrical appliances. No fire was reported.
    - Character of Storm: Lightning
    - Lightning struck a duplex and damaged a stove and other electrical appliances. No fire was reported.

- **Sargent County**
  - **3 NE Crete**
    - Date: 09
    - Time: 1843 CST
    - Character of Storm: Hail (0.88)
  - **3 W Forman**
    - Date: 09
    - Time: 1910 CST
    - Character of Storm: Hail (1.50)
  - **1 NW Forman**
    - Date: 09
    - Time: 1925 CST
    - Strong winds blew down a pole barn.
    - Character of Storm: Thunderstorm Wind

- **Sargent County**
  - **Forman**
    - Date: 09
    - Time: 1930 CST
    - Large trees and power lines were blown down. One tree blocked a road and another fell on and damaged a garage. A radio tower was also knocked over.
    - Character of Storm: Thunderstorm Wind (G70)
  - **Rutland**
    - Date: 09
    - Time: 1935 CST
    - A tree was blown over onto a house. Several other trees fell across the city streets.
    - Character of Storm: Thunderstorm Wind

- **Sargent County**
  - **8 S Cayuga**
    - Date: 09
    - Time: 1940 CST
    - Character of Storm: Hail (0.88)
  - **Forman**
    - Date: 09
    - Time: 1940 CST
    - Time: 2140 CST
    - Street flooding was reported in Forman along with water backing up around the school.
    - Character of Storm: Flash Flood

- **Richland County**
  - **8 SSW Lidgerwood**
    - Date: 09
    - Time: 1945 CST
    - Character of Storm: Hail (0.88)
  - **Grand Forks County**
    - **Grand Forks**
      - Date: 09
      - Time: 2255 CST
      - Character of Storm: Flash Flood
      - Extensive street flooding occurred in Grand Forks, with numerous streets impassable.
    - **Grand Forks County**
      - **4 SE Thompson**
        - Date: 09
        - Time: 2255 CST
        - Character of Storm: Flash Flood
        - Extensive street flooding occurred in Grand Forks, with numerous streets impassable.
NORTH DAKOTA, East

6 to 8 inches of rain caused flooding problems over southeast Grand Forks county. Cole creek threatened a home southeast of Thompson. County roads 7 and 81 were closed due to high water levels. Many fields were flooded and roads were damaged. The county estimated $500,000 in damages.

Grand Forks County

Reynolds
09 2307CST
10 0107CST
8 to 10 inches of rain fell over the Reynolds area, causing basement flooding and some basement walls to collapse. The coulee on the south side of town rapidly expanded, and threatened homes along it. The southwest ramp to Interstate 29 was closed due to high water.

Traill County

Buxton
09 2307CST
10 0107CST
12 to 15 inches of rain fell around the town of Buxton. The 15 inch amounts were reported to the east of town. Entire sections of cropland were quickly submerged in lakes of water. Flood fighters sandbagged lower lying homes around town. The railroad tracks in town started to prevent water in town from draining to the east. A large pump was brought in and the town received permission from the railroad to lay it across the railroad tracks. Many streets in town were flooded along with quite a few basements. One home just east of Buxton had water on its main floor. Interstate 29 southbound had water over both lanes, with only the passing lane remaining open. Farmers used jet ski’s to move around their land.

Traill County

Hillsboro
09 2307CST
10 0107CST
Street and basement flooding was reported along with some sewer backup. Some cars were stranded on city streets. Portions of 20 county roads were closed due to flooding.

Traill County

Mayville
09 2307CST
10 0107CST
Over six inches of rain fell at Mayville, flooding several city streets.

Traill County

7 N Hillsboro
09 2330CST
10 0130CST
Rushing water washed out a culvert and a portion of railroad tracks north of Hillsboro. An alert farmer called 911 and stopped the next Amtrak train leaving Grand Forks and going southbound. The rail line was closed for 24 hours while the spot was repaired.

Richland County

Wyndmere
09 2355CST
10 0155CST
Street flooding was reported.

NDZ030

Trall
10 0108CST
20 2359CST
Sections of cropland around the Buxton area remained under lakes of water for days. Most of the cropland was a total loss.

Cass County

Fargo
10 1030CST
1230CST
Many city streets were flooded as well as several county roads. Some streets were closed and several vehicles were stranded.

Barnes County

6 SW Sibley
17 1000CST
0 0
Hail(1.00)

Barnes County

3 N Oriska
17 1025CST
0 0
Hail(2.00)

Barnes County

4 E Oriska
17 1030CST
0 0
30K
Thunderstorm Wind
A semi truck was blown off Interstate 94. The truck was not carrying any cargo.

Cass County

Tower City
17 1035CST
1055CST
0 0
Hail(1.75)

Cass County

Tower City
17 1040CST
0 0
10K
Thunderstorm Wind
NORTH DAKOTA, East

Grain bins were damaged and trees were blown down in Tower City. Three of the city's 8 streets were blocked by trees and power was out for 4 hours. One tree fell on a church, causing substantial damage.

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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>
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NORTH DAKOTA, East

Benson County
3 S Leeds 31 1700CST 0.2 25 0 0 Tornado (F0)
A tornado touched down in open country.

Benson County
5 N Leeds 31 1710CST 0 0 Hail(1.75)

Benson County
Leeds 31 1711CST 0 0 Hail(2.00)

Benson County
Leeds 31 1718CST 0 0 Hail(1.00)

Benson County
4 E Leeds 31 1718CST 0 0 Hail(2.00)

Ramsey County
5 N Churchs Ferry 31 1727CST 0 0 Hail(0.75)

Benson County
10 SE Leeds 31 1730CST 0.2 25 0 0 Tornado (F0)
A brief tornado touchdown snapped off several large tree branches. A farmer saw a brief swirling of dust near a tree row with a funnel above.

Ramsey County
Churchs Ferry 31 1739CST 0 0 Hail(0.75)

Ramsey County
4 E Penn 31 1750CST 0.2 10 0 0 Tornado (F0)
A tornado touched down in a field, causing minimal crop damage.

Benson County
Maddock 31 1820CST 0 0 Hail(1.00)
The ground was white with hail.

Ramsey County
2 N Devils Lake 31 1820CST 0 0 Hail(0.75)
A wall cloud was observed.

Cavalier County
6 SW Wales 31 1830CST 0 0 Hail(0.75)

Ramsey County
2 NW Devils Lake 31 1830CST 0 0 Hail(1.00)

Benson County
5 E Maddock 31 1835CST 0 0 Hail(1.00)

Walsh County
Lankin 31 1835CST 2035CST 0 0 Flash Flood
Street flooding was reported.

Ramsey County
Devils Lake 31 1840CST 0 0 Hail(0.75)
A funnel cloud was also reported.

Ramsey County
4 NW Devils Lake 31 1840CST 0 0 Hail(1.00)

Walsh County
Lankin 31 1857CST 0 0 Thunderstorm Wind (G61)

Walsh County
Lankin 31 1905CST 0 0 Hail(1.00)

Grand Forks County
2 N Inkster 31 1925CST 0 0 Thunderstorm Wind (G52)
## Storm Data and Unusual Weather Phenomena

### NORTH DAKOTA, East

#### Nelson County
- **Lakota**
  - 31 1930CST
  - Tree branches were blown down.

#### Walsh County
- **8 E Grafton**
  - 31 1945CST
  - Hail (1.00)
- **Grafton**
  - 31 2002CST
  - Flash Flood
  - Street flooding was reported.

#### Eddy County
- **New Rockford**
  - 31 2245CST
  - Trees were blown down in New Rockford.

#### Griggs County
- **Cooperstown**
  - 31 2330CST
  - Thunderstorm Wind
  - Trees were blown down in Cooperstown.

#### Barnes County
- **1 N Pillsbury**
  - 31 2345CST
  - A 58 mph wind gust was measured at an NDAWN mesonet site.

#### Steele County
- **Luverne**
  - 31 2353CST
  - Hail (0.75)

#### Barnes County
- **Pillsbury**
  - 31 2355CST
  - Hail (1.50)

### OHIO, East

#### Guernsey County
- **5 S Cambridge**
  - 01 1525EST
  - Heavy thunderstorm rains of over three inches produced minor flooding along portions of County Road 35.

#### Jefferson County
- **Stratton**
  - 04 1425EST
  - Thunderstorm winds downed several trees.

#### Coshocton County
- **4 NW Mound**
  - 19 1245EST
  - A thunderstorm microburst downed numerous trees, flattened a field of corn, and blew out several windows in a farmhouse.

#### Belmont County
- **Powhatan Pt**
  - 19 1600EST
  - Flood
  - Heavy thunderstorm rains produced roadway and basement flooding.

#### Muskingum County
- **Zanesville**
  - 19 1615EST
  - Thunderstorm rains of over two inches in one hour produced roadway flooding, trapping several motorists in their vehicles.

#### Belmont County
- **Neffs**
  - 23 1452EST
  - Thunderstorm winds downed several trees.
- **Warnock**
  - 23 1455EST
  - Thunderstorm winds downed numerous trees and power lines.

#### Belmont County
- **Warnock**
  - 23 1459EST
  - Thunderstorm rains of over two inches in an hour forced Neffs Run out of its banks, which produced roadway flooding in the Warnock area.
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<th>Path Width (Yards)</th>
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## Storm Data and Unusual Weather Phenomena

### July 2002

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261
OHIO, North

Lorain County
Sheffield Lake  22  2200EST
Thunderstorm winds downed several large tree limbs.

Richland County
Mansfield Lahm Arpt  26  1235EST
Dime size hail was observed.

Ashtabula County
Pierpont  27  1640EST
Thunderstorm winds downed a large tree. The tree landed on a house and caused some damage.

Seneca County
Tiffin  27  1950EST
Dime size hail was observed four miles north of Tiffin.

Sandusky County
Lindsey  27  2030EST
Dime size hail was observed.

Erie County
Sandusky  27  2135EST
Thunderstorm winds downed two large tree limbs.

Cuyahoga County
Solon  28  1800EST
Thunderstorm winds downed several large tree limbs. Two homes were damaged by the limbs.

Geauga County
Newbury  28  1836EST
Thunderstorm winds downed a few trees.

Ottawa County
Genoa  28  1855EST
Thunderstorm winds downed several large tree limbs.

Hancock County
Rawson  28  1915EST
Thunderstorm winds downed several trees and large limbs.

Erie County
Sandusky  28  1945EST
Thunderstorm winds downed several trees.

Wood County
Bowling Green  28  2013EST
Thunderstorm winds were estimated at 60 mph.

Ottawa County
Port Clinton  28  2040EST
Thunderstorm winds downed several large tree limbs.

Lorain County
Lorain  28  2045EST
Thunderstorm winds toppled a large tree on top of two cars. One car was destroyed, the second heavily damaged.

Huron County
Norwalk  28  2055EST
Thunderstorm winds downed one tree and a large limb east of Norwalk.

Cuyahoga County
Countwide  28  2105EST
Thunderstorm winds downed a few trees and large limbs across the county.

Cuyahoga County
Seven Hills  28  2105EST
Thunderstorm winds downed a couple large trees.
OHIO, North

Ashtabula County
Andover  28  2110EST
Thunderstorm winds downed a few large tree limbs.

Lake County
Willoughby  28  2110EST
Thunderstorm winds downed two large tree limbs.

Lorain County
Amherst  28  2115EST
Thunderstorm winds downed several large trees.

Sandusky County
Clyde  28  2115EST
Thunderstorm winds downed two large tree limbs.

Geauga County
Chesterland  28  2135EST
Thunderstorm winds downed one tree and a large limb.

Lorain County
Elyria  28  2135EST
Thunderstorm wind gusts were estimated at 70 mph. Many trees and large limbs were downed. A car was heavily damaged by a fallen tree.

Summit County
Richfield  28  2135EST
Thunderstorm winds downed two large tree limbs.

Ashtabula County
Jefferson  28  2155EST
Thunderstorm winds downed two large tree limbs west of Jefferson.

Portage County
Mantua  28  2155EST
Thunderstorm winds downed a few large tree limbs.

Medina County
Lodi  28  2200EST
Thunderstorm winds downed a few large tree limbs.

Trumbull County
Farmdale  28  2215EST
Thunderstorm winds downed two large tree limbs.

Wood County
Perrysburg  29  1555EST
Thunderstorm winds downed several trees and damaged a house.

Hancock County
Countwide  29  1640EST
A 61 mph thunderstorm wind gust was measured at the Findlay Airport. Many trees were downed across the county.

Wood County
Bradner  29  1645EST
Thunderstorm winds downed several large trees.

Ottawa County
Catawba Is  29  1700EST
Thunderstorm winds downed a few trees.

Hancock County
Findlay  29  1705EST
Thunderstorm winds downed several large tree limbs and snapped a power pole.

Ottawa County
Port Clinton  29  1710EST
Thunderstorm winds downed several large tree limbs and snapped a power pole.

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## Storm Data and Unusual Weather Phenomena

### Location

**Ohio, North**

Thunderstorm winds downed a few trees.

- **Wyandot County**
  - **Wharton**
    - Date: 29
    - Time: 1713EST
    - Character of Storm: Thunderstorm Wind
    - Thunderstorm winds downed several large limbs.

- **Seneca County**
  - **Countywide**
    - Date: 29
    - Time: 1730EST
    - Character of Storm: Thunderstorm Wind
    - Thunderstorm winds downed a few trees and limbs across the county.

- **Crawford County**
  - **Bucyrus**
    - Date: 29
    - Time: 1750EST
    - Character of Storm: Thunderstorm Wind
    - Thunderstorm winds downed a few trees. A house was slightly damaged by a tree.

- **Marion County**
  - **Marion**
    - Date: 29
    - Time: 1750EST
    - Character of Storm: Thunderstorm Wind
    - Thunderstorm winds downed one tree and one power pole.

- **Richland County**
  - **Shelby**
    - Date: 29
    - Time: 1753EST
    - Character of Storm: Thunderstorm Wind
    - Thunderstorm winds downed many trees. Fallen trees damaged a parked car and a house.

- **Ashland County**
  - **Countywide**
    - Date: 29
    - Time: 1800EST
    - Character of Storm: Thunderstorm Wind
    - Thunderstorm winds downed trees across the county. A small plane tied down at the Ashland County Airport was blown 65 feet, turned over and destroyed by wind gusts estimated at 65 mph.

- **Erie County**
  - **Countywide**
    - Date: 29
    - Time: 1800EST
    - Character of Storm: Thunderstorm Wind
    - Thunderstorm winds downed trees and large limbs in Berlin Heights, Vermilion and Sandusky.

- **Huron County**
  - **Countywide**
    - Date: 29
    - Time: 1800EST
    - Character of Storm: Thunderstorm Wind
    - Thunderstorm winds downed several trees across the county.

- **Lorain County**
  - **Countywide**
    - Date: 29
    - Time: 1800EST
    - Character of Storm: Thunderstorm Wind
    - Thunderstorm winds downed trees in Wellington, Lorain and Elyria. Four power poles were also downed near Elyria.

- **Morrow County**
  - **Fulton to Mt Gilead**
    - Date: 29
    - Time: 1800EST
    - Character of Storm: Thunderstorm Wind
    - Thunderstorm winds downed trees in Fulton and Mount Gilead.

- **Richland County**
  - **Mansfield**
    - Date: 29
    - Time: 1810EST
    - Character of Storm: Thunderstorm Wind
    - Thunderstorm winds downed a few trees.

- **Cuyahoga County**
  - **Rocky River**
    - Date: 29
    - Time: 1818EST
    - Character of Storm: Thunderstorm Wind (G52)
    - A trained spotter estimated thunderstorm winds at 60 mph.

- **Knox County**
  - **Howard**
    - Date: 29
    - Time: 1830EST
    - Character of Storm: Thunderstorm Wind
    - Thunderstorm winds downed many trees near Apple Valley Lake in northeastern Knox County. A vehicle travelling on U.S. 36 just west of Howard was struck by a falling tree. A two year old female inside the car was killed and four other occupants were seriously injured. F2VE

- **Medina County**
  - **Countywide**
    - Date: 29
    - Time: 1830EST
    - Character of Storm: Thunderstorm Wind
    - Thunderstorm winds downed several trees across the county.

- **Medina County**
  - **Medina**
    - Date: 29
    - Time: 1836EST
    - Character of Storm: Thunderstorm Wind (G52)
    - A 60 mph thunderstorm wind gust was measured. Numerous trees and large limbs were downed in and around Medina.

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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>
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<th>Estimated Damage</th>
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## Storm Data and Unusual Weather Phenomena

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<th>Estimated Damage Property</th>
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<td>Thunderstorm winds downed many trees in Wooster. Several homes were damaged by the fallen trees.</td>
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<td>Thunderstorm winds downed many trees across the northern and central portions of Portage County. A car was damaged by a fallen tree near Brimfield. A small farm building was heavily damaged in Ravenna Township.</td>
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<td>Thunderstorm winds downed several large tree limbs in a campground. The limbs damaged at least two motor homes.</td>
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<td>Thunderstorm winds downed around a dozen trees and damaged the roof of a house.</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medina County Countywide</td>
<td>1930EST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind</td>
<td></td>
<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>Thunderstorm winds downed a few trees across the western portion of the county.</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stark County Hartville</td>
<td>1935EST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind</td>
<td></td>
<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>Thunderstorm winds downed a few trees and large limbs in Hartville and Lake Township.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trumbull County Countywide</td>
<td>1945EST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind</td>
<td></td>
<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>Thunderstorm winds downed many trees in the northwestern and southeastern portions of Trumbull County.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mahoning County Youngstown</td>
<td>2005EST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G52)</td>
<td></td>
<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>A 60 mph thunderstorm wind gust was measured. Several trees and large limbs were downed.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Storm Data and Unusual Weather Phenomena

### Ohio, North

#### Stark County
- **Alliance**
  - **Date:** 29 Jul 2015
  - **Time:** 0150 EST
  - **Path Length (Miles):** 0
  - **Path Width (Yards):** 0
  - **Number of Persons Killed:** 0
  - **Number of Persons Injured:** 0
  - **Estimated Damage Property:** 2K
  - **Character of Storm:** Thunderstorm Wind

  Thunderstorm winds downed two large tree limbs.

### Ohio, Northwest

#### Van Wert County
- **2 W Van Wert**
  - **Date:** 22 Jul 2015
  - **Time:** 0900 EST
  - **Path Length (Miles):** 0
  - **Path Width (Yards):** 0
  - **Number of Persons Killed:** 0
  - **Number of Persons Injured:** 0
  - **Estimated Damage Property:** 0
  - **Character of Storm:** Thunderstorm Wind

  Sheriff dispatch reported trees down west of Van Wert.

#### Henry County
- **2 N Napoleon**
  - **Date:** 26 Jul 2015
  - **Time:** 1230 EST
  - **Path Length (Miles):** 0
  - **Path Width (Yards):** 0
  - **Number of Persons Killed:** 0
  - **Number of Persons Injured:** 0
  - **Estimated Damage Property:** 0
  - **Character of Storm:** Thunderstorm Wind

  Power lines and a pole reported down north of Napoleon.

#### Defiance County
- **6 W Defiance**
  - **Date:** 29 Jul 2015
  - **Time:** 1415 EST
  - **Path Length (Miles):** 0
  - **Path Width (Yards):** 0
  - **Number of Persons Killed:** 0
  - **Number of Persons Injured:** 0
  - **Estimated Damage Property:** 2K
  - **Character of Storm:** Thunderstorm Wind

  Emergency management reported 2 barns with roofs partially taken off as well as trees down west of Defiance.

- **Defiance**
  - **Date:** 29 Jul 2015
  - **Time:** 1418 EST
  - **Path Length (Miles):** 0
  - **Path Width (Yards):** 0
  - **Number of Persons Killed:** 0
  - **Number of Persons Injured:** 0
  - **Estimated Damage Property:** 10K
  - **Character of Storm:** Thunderstorm Wind

  Emergency management reported minor roof damage to 7 homes in Defiance.

#### Van Wert County
- **Willshire**
  - **Date:** 29 Jul 2015
  - **Time:** 1506 EST
  - **Path Length (Miles):** 0
  - **Path Width (Yards):** 0
  - **Number of Persons Killed:** 0
  - **Number of Persons Injured:** 0
  - **Estimated Damage Property:** 0
  - **Character of Storm:** Thunderstorm Wind

  Emergency management reported power lines down in Van Wert.

#### Allen County
- **Countywide**
  - **Date:** 29 Jul 2015
  - **Time:** 1606 EST
  - **Path Length (Miles):** 0
  - **Path Width (Yards):** 0
  - **Number of Persons Killed:** 0
  - **Number of Persons Injured:** 0
  - **Estimated Damage Property:** 0
  - **Character of Storm:** Thunderstorm Wind

  Emergency management reported trees down in Van Wert.

- **Willshire**
  - **Date:** 29 Jul 2015
  - **Time:** 1606 EST
  - **Path Length (Miles):** 0
  - **Path Width (Yards):** 0
  - **Number of Persons Killed:** 0
  - **Number of Persons Injured:** 0
  - **Estimated Damage Property:** 0
  - **Character of Storm:** Thunderstorm Wind

  Emergency management reported power lines down in Willshire.

#### Putnam County
- **Columbus Grove**
  - **Date:** 29 Jul 2015
  - **Time:** 1635 EST
  - **Path Length (Miles):** 0
  - **Path Width (Yards):** 0
  - **Number of Persons Killed:** 0
  - **Number of Persons Injured:** 0
  - **Estimated Damage Property:** 0
  - **Character of Storm:** Thunderstorm Wind

  Emergency management reported tress down in Columbus Grove.

- **Ft Jennings**
  - **Date:** 29 Jul 2015
  - **Time:** 1635 EST
  - **Path Length (Miles):** 0
  - **Path Width (Yards):** 0
  - **Number of Persons Killed:** 0
  - **Number of Persons Injured:** 0
  - **Estimated Damage Property:** 0
  - **Character of Storm:** Thunderstorm Wind

  Emergency management reported trees down in FT Jennings.

#### Pandora
- **Date:** 29 Jul 2015
- **Time:** 1635 EST
- **Path Length (Miles):** 0
- **Path Width (Yards):** 0
- **Number of Persons Killed:** 0
- **Number of Persons Injured:** 0
- **Estimated Damage Property:** 0
- **Character of Storm:** Thunderstorm Wind

  Emergency management reported trees down in Pandora.

#### Pandora
- **Date:** 29 Jul 2015
- **Time:** 1635 EST
- **Path Length (Miles):** 0
- **Path Width (Yards):** 0
- **Number of Persons Killed:** 0
- **Number of Persons Injured:** 0
- **Estimated Damage Property:** 580K
- **Character of Storm:** Thunderstorm Wind

  Emergency management reported large tree fell onto driveway striking 3 family members. All 3 were treated and released from hospital.

### Putnam County
- **Pandora**
  - **Date:** 29 Jul 2015
  - **Time:** 1635 EST
  - **Path Length (Miles):** 0
  - **Path Width (Yards):** 0
  - **Number of Persons Killed:** 0
  - **Number of Persons Injured:** 0
  - **Estimated Damage Property:** 580K
  - **Character of Storm:** Thunderstorm Wind

  Emergency management reported trees down in Pandora.

### Putnam County
- **Pandora**
  - **Date:** 29 Jul 2015
  - **Time:** 1635 EST
  - **Path Length (Miles):** 0
  - **Path Width (Yards):** 0
  - **Number of Persons Killed:** 0
  - **Number of Persons Injured:** 0
  - **Estimated Damage Property:** 580K
  - **Character of Storm:** Thunderstorm Wind

  Emergency management reported large tree fell onto driveway striking 3 family members. All 3 were treated and released from hospital.
OHIO, Northwest

Emergency management reported straight line winds destroyed 3 gym walls and portion of an elementary school wall under construction in Pandora. Walls were cinder block.

Allen County

2 SW Cairo 29 1654EST 0 0 1K Thunderstorm Wind

Emergency management reported tree limbs down and slight damage to farm equipment southwest of Cairo.

OHIO, Southeast

Athens County

Nelsonville to Athens 09 2045EST 2000EST 0 0 10K Flash Flood

Rains of 2 to 3.5 inches fell in less than 3 hours, in a northwest to southeast corridor, along the Hocking River Valley. An automatic gauge south of Nelsonville measured 3.5 inches of rain. In the city of Athens, 3.4 inches of rain was recorded. The Plains measured 3.1 inches. Streams flooded roads in such communities as Athens, The Plains, and Chauncey. The York Fire Department went to the aid of motorists stalled in water along township roads. No flooding of dwellings was known.

Vinton County

West Portion 09 2315EST 2200EST 0 0 5K Flash Flood

The Middle Fork and its tributaries overflowed onto roads, including Route 50. The cooperative observer at McArthur reported 4.06 inches of rain in its 24 hour report.

Jackson County

1 NE Jackson 09 2340EST 0 0 1K Thunderstorm Wind

Several large tree branches were blown down.

Athens County

Millfield 18 2000EST 0 0 10K Thunderstorm Wind

Several large tree limbs were snapped off. A porch was damaged by a fallen branch.

Vinton County

Mc Arthur 19 1324EST 0 0 1K Thunderstorm Wind

A few large trees were blown down.

OHIO, Southwest

Fairfield County

Lancaster 04 1645EST 1648EST 0 0 Hail(0.88)

Numerous trees and power lines were also downed in Lancaster.

Adams County

Cedar Mills 04 1810EST 1812EST 0 0 3K Thunderstorm Wind (G50)

A few trees were knocked down along State Route 348.

OHZ064-074

Pickaway - Hocking 09 2100EST 2240EST 0 0 Flood

Thunderstorms along a frontal boundary produced heavy rainfall across portions of central Ohio during the evening hours. Locally three to five inches fell across eastern Pickaway and western Hocking Counties, with high water causing several road closures near Leistville and Laurelville.

Fayette County

1 N Bloomingburg 09 2120EST 2122EST 0 0 3K Thunderstorm Wind (G50)

Trees were knocked down.

Fairfield County

Stoutsville 09 2200EST 2300EST 0 0 Flash Flood

Oakland-Stoutsville Road was closed due to high water.

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
--- | --- | --- | --- | --- | --- | --- | --- | --- | ---
OHIO, Northwest | | | | | | | | | 
Allen County | | | | | | | | | 
2 SW Cairo | 29 | 1654EST | 0 | | | 1K | Thunderstorm Wind | 
OHIO, Southeast | | | | | | | | | 
Athens County | Nelsonville to Athens | 09 | 2045EST 2200EST | 0 | | 10K | Flash Flood | 
Vinton County | West Portion | 09 | 2315EST 2200EST | 0 | | 5K | Flash Flood | 
Jackson County | 1 NE Jackson | 09 | 2340EST | 0 | | 1K | Thunderstorm Wind | 
Athens County | Millfield | 18 | 2000EST | 0 | | 10K | Thunderstorm Wind | 
Vinton County | Mc Arthur | 19 | 1324EST | 0 | | 1K | Thunderstorm Wind | 
OHIO, Southwest | | | | | | | | | 
Fairfield County | Lancaster | 04 | 1645EST 1648EST | 0 | | Hail(0.88) | 
Adams County | Cedar Mills | 04 | 1810EST 1812EST | 0 | | 3K | Thunderstorm Wind (G50) | 
OHZ064-074 | Pickaway - Hocking | 09 | 2100EST 2240EST | 0 | | Flood | 
Fayette County | 1 N Bloomingburg | 09 | 2120EST 2122EST | 0 | | 3K | Thunderstorm Wind (G50) | 
Fairfield County | Stoutsville | 09 | 2200EST 2300EST | 0 | | Flash Flood | 

July 2002

267
Morris Road was closed for a period of time due to high water.

State Route 56 was closed near Haynes because of high water. Several homes were evacuated in Laurelville, with many vehicles in the area under three to four feet of water.

Problems with high water occurred across the county. A roof of a gas station on the west side of Chillicothe collapsed under the weight of the heavy rain.

High water washed out a berm on State Route 661.

Widespread flooding occurred in Marysville, with several road closures.

A couple of houses sustained minor roof and siding damage along Sugar Grove Road. Trees were also downed.

Large limbs and power lines were blown down.

Two to three feet of water on some roads submerged some cars and caused others to float. On Leonard Street and 5th Avenue, a foot of water was entering the main level of some homes.

Trees were blown down.

Large limbs and a tree were blown down in the northwest part of the 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>Type of Damage</th>
<th>Number of Persons</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pickaway County</td>
<td>09 2200EST 2300EST</td>
<td>0 0</td>
<td>Flash Flood</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hocking County</td>
<td>09 2230EST 2330EST</td>
<td>0 0</td>
<td>Flash Flood</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ross County</td>
<td>10 0010EST 0100EST</td>
<td>0 0 10K</td>
<td>Flash Flood</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Licking County</td>
<td>10 0200EST 0245EST</td>
<td>0 0</td>
<td>Flash Flood</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Union County</td>
<td>19 1730EST 1735EST</td>
<td>0 0 5K</td>
<td>Thunderstorm Wind (G50)</td>
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<td></td>
<td></td>
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<tr>
<td>OHZ045-045</td>
<td>19 1930EST 2230EST</td>
<td>0 0</td>
<td>Flash Flood</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fairfield County</td>
<td>19 2200EST 2204EST</td>
<td>0 0 10K</td>
<td>Thunderstorm Wind (G50)</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Mercer County</td>
<td>22 1950EST 1955EST</td>
<td>0 0 3K</td>
<td>Thunderstorm Wind (G50)</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>OHZ054-056-061-071</td>
<td>23 1030EST 1435EST</td>
<td>0 0 12K</td>
<td>Flood</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Franklin County</td>
<td>23 1444EST 1515EST</td>
<td>0 0 22K</td>
<td>Flood</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Warren County</td>
<td>27 0315EST 0320EST</td>
<td>0 0 2K</td>
<td>Thunderstorm Wind (G50)</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clinton County</td>
<td>27 0345EST 0400EST</td>
<td>0 0 2K</td>
<td>Thunderstorm Wind (G50)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OHZ061-063-071-072</td>
<td>27 0615EST 0750EST</td>
<td>0 0 23K</td>
<td>Flood</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
A slow moving warm front tracking across the region during the early morning, produced strong thunderstorms with torrential rainfall. Rainfall amounts of four to six inches fell in a four hour period across the southern Miami Valley and portions of south central Ohio. This led to numerous road closures and creeks out of their banks with damage reported on the south side of Dayton and across Greene County. Damage estimates from the storms in Montgomery County alone are around $8000.

Several roads were closed. A mudslide closed a part of route 73 near interstate 75.

High water forced the closures of several area roads.

Trees were blown down in both the Coldwater and Fort Recovery areas.

A tent collapsed at the county fairgrounds in St. Mary's.

Several trees were blown down in the western part of the county.

A few trees were blown down. Minor damage occurred at the EMA building.

A few trees fell on homes.

Several trees were blown down.

Several trees were blown down.

Several trees were blown down.

Several trees were blown down.

Several trees were blown down.

Trees were blown down.

Trees were blown down.

Trees were blown down.

Trees were blown down.
OHIO, Southwest

Trees were downed across the Cincinnati metropolitan area, especially in the suburbs of Mariemont and Colerain.

**Delaware County**

<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>Number of Persons Injured</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Countywide</td>
<td>29 1755EST 1810EST</td>
<td>0</td>
<td>0</td>
<td>5K</td>
<td></td>
<td>Thunderstorm Wind (G50)</td>
</tr>
</tbody>
</table>

Trees were blown down across the county.

**Clinton County**

<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>Number of Persons Injured</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 S Wilmington</td>
<td>29 1800EST 1820EST</td>
<td>0</td>
<td>0</td>
<td>20K</td>
<td></td>
<td>Thunderstorm Wind (G60)</td>
</tr>
</tbody>
</table>

A number of trees were downed along State Route 134. Several boats were overturned on Cowan Lake.

**Greene County**

<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>Number of Persons Injured</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bellbrook</td>
<td>29 1800EST 1805EST</td>
<td>0</td>
<td>0</td>
<td>4K</td>
<td></td>
<td>Thunderstorm Wind (G50)</td>
</tr>
</tbody>
</table>

A few trees were blown down.

**Warren County**

<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>Number of Persons Injured</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lebanon</td>
<td>29 1800EST 1805EST</td>
<td>0</td>
<td>0</td>
<td>4K</td>
<td></td>
<td>Thunderstorm Wind (G50)</td>
</tr>
</tbody>
</table>

Trees were blown down.

**Clark County**

<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>Number of Persons Injured</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Springfield</td>
<td>29 1805EST 1808EST</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td>Thunderstorm Wind (G74)</td>
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</tbody>
</table>

**Clermont County**

<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>Number of Persons Injured</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amelia</td>
<td>29 1825EST 1835EST</td>
<td>0</td>
<td>0</td>
<td>3K</td>
<td></td>
<td>Thunderstorm Wind (G51)</td>
</tr>
</tbody>
</table>

Trees were blown down.

**Madison County**

<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>Number of Persons Injured</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>London</td>
<td>29 1835EST 1845EST</td>
<td>0</td>
<td>0</td>
<td>1K</td>
<td></td>
<td>Thunderstorm Wind (G50)</td>
</tr>
</tbody>
</table>

Large limbs were blown down.

**Brown County**

<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>Number of Persons Injured</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fayetteville</td>
<td>29 1845EST 1850EST</td>
<td>0</td>
<td>0</td>
<td>3K</td>
<td></td>
<td>Thunderstorm Wind (G50)</td>
</tr>
</tbody>
</table>

Large limbs were downed. A tree fell on Harner Road.

**Fayette County**

<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>Number of Persons Injured</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Countywide</td>
<td>29 1845EST 1855EST</td>
<td>0</td>
<td>0</td>
<td>3K</td>
<td></td>
<td>Thunderstorm Wind (G51)</td>
</tr>
</tbody>
</table>

A few trees were downed in the northern part of the county.

**Highland County**

<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>Number of Persons Injured</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 E Hillsboro</td>
<td>29 1845EST</td>
<td>0</td>
<td>0</td>
<td>1K</td>
<td></td>
<td>Thunderstorm Wind (G50)</td>
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Two foot diameter trees were blown down, blocking the access to hiking trails in Paint Creek State Park.

**Licking County**

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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>Number of Persons Injured</th>
<th>Character of Storm</th>
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Trees were blown down in the northern part of the county.

**Fairfield County**

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<th>Path Length (Miles)</th>
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OKLAHOMA, Eastern

**Cherokee County**

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<td>1</td>
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Lightning struck a 32 year old woman and her 14 year old daughter while they were standing under a tree. They were in Wildwood Park on the shores of Ft. Gibson Lake near Hulbert. Both were taken by Lifeflight helicopter to Hillcrest Medical Center in Tulsa. The daughter fully recovered. The woman died at 530 am CDT the next morning. F32UT

**Latimer County**

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</table>
Lightning struck a home and started a fire in the attic. Heavy smoke and water damage were common throughout the home. Six firefighters suffered heat exhaustion and smoke inhalation and two were admitted to the hospital.

**Pittsburg County**

4 S Mc Alester

06 1930CST 0 0  Thunderstorm Wind (G61)

Thunderstorm winds estimated at 70 miles an hour blew down a large tree. The tree blocked Highway 69.

**Nowata County**

South Coffeyville

10 1650CST 0 0 1K  Thunderstorm Wind (G61)

Thunderstorm winds estimated at 70 miles an hour blew trees and power lines down.

**Craig County**

Centralia

10 1725CST 0 0  Thunderstorm Wind (G52)

**Nowata County**

Nowata

10 1725CST 0 0  Thunderstorm Wind (G57)

**Craig County**

10 SE Vinita

1749CST 0 0  Thunderstorm Wind (G57)

65 mile an hour thunderstorm winds were reported in Ketchum.

**Mayes County**

Spavinaw

1755CST 0 0  Thunderstorm Wind (G52)

Thunderstorm winds estimated at 60 miles an hour blew down large tree limbs.

**Rogers County**

Claremone

1805CST 0 0 5K  Thunderstorm Wind (G61)

Thunderstorm winds estimated at 70 miles an hour blew trees and power lines down.

**Rogers County**

Verdigris

1814CST 0 0 0.50K  Thunderstorm Wind (G61)

Thunderstorm winds estimated at 70 miles an hour blew down large tree limbs also blew the shutters off a house.

**Mayes County**

2 N Pryor

1820CST 0 0  Thunderstorm Wind (G52)

**Tulsa County**

Collinsville

1820CST 0 0  Thunderstorm Wind (G52)

**Delaware County**

Kenwood

1827CST 0 0  Thunderstorm Wind (G61)

Thunderstorm winds estimated at 70 miles an hour blew down several trees.

**Osage County**

Fairfax

1840CST 0 0 5K  Thunderstorm Wind (G61)

Thunderstorm winds estimated at 70 miles an hour blew trees and power lines down.

**Delaware County**

4 E Colcord

1855CST 0 0  Thunderstorm Wind (G61)

Thunderstorm winds estimated at 70 miles an hour blew numerous trees.

**Tulsa County**

Broken Arrow

1900CST 0 0  Thunderstorm Wind (G52)

Thunderstorm winds estimated at 60 miles an hour blew down large tree limbs in the Indian Springs area.

**Wagoner County**

Coweta

1900CST 0 0 5K  Thunderstorm Wind (G61)

Thunderstorm winds estimated at 70 miles an hour blew down a large tree. The tree fell on a house and slid down the roof and off to the side of the structure. Many shingles and the eaves to the house were ripped off.

**Cherokee County**

3 N Tahlequah

1902CST 0 0  Thunderstorm Wind (G52)

**Wagoner County**

3 E Coweta

1910CST 0 0  Thunderstorm Wind (G52)

**Muskogee County**

Muskogee

1915CST 0 0 5K  Thunderstorm Wind (G61)

Thunderstorm winds estimated at 70 miles an hour blew trees and power lines down.
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</table>
**OKLAHOMA, Eastern**

Craig County  
3 N Welch  
Thunderstorm winds estimated at 60 miles an hour blew several large tree limbs down.

**OKLAHOMA, Extreme Southeast**

NONE REPORTED.

**OKLAHOMA, Panhandle**

Beaver County  
Forgan  
Hail(0.88)

Beaver County  
Beaver  
Hail(0.75)

Severe thunderstorms over the extreme eastern Oklahoma panhandle during the late evening hours produced large hail.

**OKLAHOMA, Western, Central and Southeast**

Kingfisher County  
Kingfisher  
Hail(0.75)

Grant County  
Manchester  
Thunderstorm Wind

Two to three inch diameter tree limbs were downed.

Alfalfa County  
8 NE Amorita  
Thunderstorm Wind (G52)

Woods County  
4 NW Capron  
Thunderstorm Wind (G52)

Alfalfa County  
4 W Burlington  
Thunderstorm Wind

A 15 inch diameter tree limb was downed.

Woods County  
4 SW Alva  
Thunderstorm Wind (G61)

Woods County  
7 SW Alva  
Thunderstorm Wind (G52)^M

Wind was measured by the Oklahoma mesonet.

Major County  
Cleo Spgs  
Hail(0.75)

Greer County  
3 E Reed  
Hail(0.75)

Garvin County  
7 W Wynnewood  
Hail(0.75)

Garvin County  
7 W Wynnewood  
Thunderstorm Wind

Trees were blown down across a road.

Love County  
5 SW Marietta  
Hail(0.75)

Pottawatomie County  
1 W Earlsboro  
Hail(0.75)
## Storm Data and Unusual Weather Phenomena

July 2002

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
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<th>Path Width (Yards)</th>
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</table>

Wind gusts between 59 mph and 66 mph were measured between 1525 CST and 1530 CST.

Three power poles were blown down.

Lightning struck a tree on Glenn Smith Road.

The top of a restaurant sign was blown off east of town.

Wind was measured by the Oklahoma mesonet.

Lightning struck an oil tank battery, causing a fire.

Power poles were also downed on Council and Wilshire.

Large tree limbs were downed, and a business sign was blown over.

A few homes had some shingles blown off their roof, and large tree limbs were downed.
## Storm Data and Unusual Weather Phenomena

### OKLAHOMA, Western, Central and Southeast

<table>
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<tr>
<th>Location</th>
<th>Date</th>
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<th>Path Width (Yards)</th>
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<td>Large tree limbs were downed.</td>
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<td>Four inch diameter tree limbs were downed.</td>
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### OREGON, Central and East

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<td>Hail(1.00)</td>
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<td>Ashwood</td>
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</table>
OREGON, Central and East

Morrow County
Boardman 07 2002PST 0 0 Hail(1.75)

Union County
La Grande 07 2120PST 0 0 Hail(1.00)
In addition to the hail, strong wind gusts caused numerous minor power outages in the Grande Ronde Valley according to Oregon Trail Electric Cooperative.

Wallowa County
Enterprise 08 0045PST 0 0 Hail(0.75)

Jefferson County
13 SW Warm Spgs 09 0000PST 0 0 5.5M Wild/Forest Fire
The Eyerly Fire, sparked by lightning, consumed 23,573 acres and destroyed several structures, including 18 homes, 13 out buildings, three travel trailers, and two cars. In addition, one home and five buildings were damaged.

ORZ041+050
10 0000PST 0 0 Excessive Heat
A record breaking heat wave shattered many daily record high temperatures across the state, with a few locations breaking all-time records. Some of the warmest locations include Monument with 115 degrees, Dayville 114 degrees, John Day 110 degrees, Pendleton Airport 109 degrees, and Enterprise with 108 degrees.

Grant County
28 ENE Seneca 12 0000PST 0 0 Wild/Forest Fire
The Monument Complex Fire, started by lightning, consumed 16,063 acres in Grant and Baker Counties. The fire was not controlled until August 19th.

Deschutes County
2 N Alfalfa 12 1700PST 1900PST 0 0 Thunderstorm Wind (G50)
Local high winds snapped some trees, while others were uprooted.

Wheeler County
13 WNW Richmond 13 0000PST 0 0 Wild/Forest Fire
The Priest Hole Fire was a lightning sparked fire which consumed 680 acres.

Grant County
12 SW Dayville 13 0000PST 0 0 Wild/Forest Fire
The 747 Fire was sparked by lightning and consumed 16,856 acres. The fire was not controlled until August 1st.

Grant County
15 SE Seneca 13 0000PST 0 0 Wild/Forest Fire
The Malheur Complex Fire was a lightning sparked fire that burned 19,367 acres. The fire was not controlled until August 19th.

ORZ049
Grand Ronde Valley
13 1330PST 0 0 5K High Wind
Gusty winds caused damage to a side of a house from an irrigation wheel line in North Powder. The winds also knocked down a number of trees and limbs.

Umatilla County
(Pdt)/Pendleton Arpt 13 1514PST 1516PST 0.2 10 0 0 0 Tornado (F0)
A brief tornado over a runway moved northwest before dissipating.

Union County
19 NNE Imbler 13 1515PST 0 0 1K Thunderstorm Wind
Wind gusts ranging from 30 to 40 MPH from a thunderstorm uprooted 4-6 small trees.

ORZ041
Eastern Columbia River Gorge
14 1515PST 0 0 2K High Wind
Winds toppled a banner pole in downtown at The Dalles onto a passing vehicle. The peak wind reported by ASOS at The Dalles was 28 knots.
OREGON, Central and East

Grant County
10 NE Izee

<table>
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<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/ Standard</th>
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<th>Number of Persons Killed</th>
<th>Number of Persons Injured</th>
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<td>31</td>
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The Flagtail Fire, sparked by lightning, consumed 8,175 acres along with two structures. The fire was not controlled until August 19th.

Wallowa County
5 S Joseph

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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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The Wallowa County Sheriff's Office confirmed a mudslide near the Blue Mountain Council Boy Scout Camp at the south end of Wallowa Lake. The mudslide destroyed a dining hall near the boy scout camp. The debris flow in the lake was several feet thick. The mudslide swept away several trees and damaged three vehicles in its path.

Wallowa County
2 S Imnaha

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Nearly stationary thunderstorm with heavy rainfall caused 1-2 feet of water to flow over road to Halfway.

Deschutes County
Bend

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Thunderstorms which moved through Deschutes County brought small hail and wind gusts to 40 knots. The winds knocked down tree branches and caused local power outages.

Wasco County
12 W The Dalles

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<th>Path Length (Miles)</th>
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The Sheldon Ridge Fire, sparked by lightning, consumed 12,681 acres and eight structures, all of which were out buildings. Around 250 homes were threatened by the flames. Oregon National Guard Troops assisted in battling the flames.

Deschutes County
12 NW Sisters

<table>
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<th>Path Length (Miles)</th>
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The Cache Mountain Fire, sparked by lightning, consumed 4,200 acres and 11 structures.

Wasco County
6 W Wamic

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<th>Date</th>
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<th>Path Width (Yards)</th>
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Lightning knocked out power to 100 residents in the Perry and Hilgard areas.

Jefferson County
Camp Sherman

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<th>Date</th>
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<th>Path Width (Yards)</th>
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<td>Hail(0.75)</td>
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Lightning knocked out power to 100 residents in the Perry and Hilgard areas.

Wasco County
3 NE Maupin

<table>
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<th>Date</th>
<th>Time Local/ Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
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</table>

The White River Fire, sparked by lightning, consumed 28,500 acres and four structures. The fire temporarily closed Highway 216.

Umatilla County
5 S Pendleton Arpt

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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>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>5 S Pendleton Arpt</td>
<td>23</td>
<td>2030PST</td>
<td>0</td>
<td>0</td>
<td>Wild/Forest Fire</td>
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<td>2359PST</td>
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Several fires, sparked by lightning, south of the Pendleton Airport consumed around 2,000 acres, including one barn. Most of these fires were confined to grass and sagebrush.

Wheeler County
Kinzua

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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>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>Kinzua</td>
<td>24</td>
<td>1607PST</td>
<td>0</td>
<td>0</td>
<td>Hail(1.25)</td>
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<td>1617PST</td>
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Half-dollar size hail was reported by a weather spotter.

OREGON, Northwest

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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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NONE REPORTED.
### OREGON, Southeast

**Malheur County**
- **Ontario Arpt**
  - **07 1045MST**
  - **1100MST**
  - **0 0**
  - **Thunderstorm Wind (G50)**

A line of thunderstorms crossed Malheur County producing outflow winds measured at 50 knots at the Ontario airport.

**Baker County**
- **Sumpter to Haines**
  - **07 1600PST**
  - **1630PST**
  - **0 2**
  - **Hail(1.50)**

A severe thunderstorm cell dropped 1.5 inch diameter hail that covered the highway in Sumpter and damaged vehicles in the town of Haines. The storm also produced winds that knocked a tree down onto a vehicle, injuring two people inside.

**Malheur County**
- **15 NW Jordan Vly**
  - **15 1500MST**
  - **1500MST**
  - **0 0**
  - **Wild/Forest Fire**

The Mahogany Mountain Fire rapidly spread from 2000 to over 14,000 acres due to strong winds on July 15th, spreading to over 41,000 acres before being contained on July 21st. No structures were lost. Total cost of fighting the fire was $1.0 million.

**Malheur County**
- **East Central Portion**
  - **19 1430MST**
  - **1500MST**
  - **0 0**
  - **Flash Flood**

Very heavy rainfall from slow-moving thunderstorms caused flash flooding in east-central Malheur County. About 50 firefighters were stranded near Three Fingers Rock while fighting the Mahogany fire. Low areas of the access road were covered by a foot of water when McCain Creek filled up. Three Fingers Gulch also overflowed its banks and a recreational road near Jordan Creek was washed out.

**Malheur County**
- **12 SW Rome**
  - **22 1700MST**
  - **0 0**
  - **Hail(0.75)**

A very warm, moist and unstable airmass allowed afternoon thunderstorms to intensify as they marched northeastward across Malheur County. One thunderstorm dropped hail that measured up to 3/4 inch in diameter just south of Burns Junction.

**Malheur County**
- **Ontario**
  - **25 1515MST**
  - **1545MST**
  - **0 0**
  - **Thunderstorm Wind (G50)**

A local street was closed in Ontario when thunderstorm winds blew apart a shed and deposited the debris onto the roadway. Construction materials from a building site were also blown onto the road, blocking traffic.

### OREGON, Southwest

**Curry County**
- **Countywide**
  - **11 1330PST**
  - **2345PST**
  - **0 0**
  - **Lightning**

See below.

**Douglas County**
- **Countywide**
  - **11 1330PST**
  - **2345PST**
  - **0 0**
  - **Lightning**

See below.

**Jackson County**
- **Countywide**
  - **11 1330PST**
  - **2345PST**
  - **0 0**
  - **Lightning**

See below.

**Josephine County**
- **Countywide**
  - **11 1330PST**
  - **2345PST**
  - **0 0**
  - **Lightning**

See below.

**Klamath County**
- **Countywide**
  - **11 1330PST**
  - **2345PST**
  - **0 0**
  - **Lightning**

See below.

**Lake County**
- **Countywide**
  - **11 1330PST**
  - **2345PST**
  - **0 0**
  - **Lightning**

See below.

A Red Flag Warning for dry lightning was issued for fire weather zones 620/621/622/623/624/625 at 1330 PDT on 07/11/02.
OREGON, Southwest

Zones 620/622 were dropped from the warning area at 0700 PDT on 07/12/02 but were readded to the warning along with zone 617 at 1030 PDT on 07/12/02. These zones include all or part of the counties listed above. All warnings expired at 2345 PDT on 07/12/02.

A large scale lightning outbreak did occur during the warning period with most of the recorded strikes east of the Cascades. However, these strikes did cause numerous fires on both sides of the Cascades, some of which developed into major wildfires. It appears that the Red Flag Warning was timely and accurate.

Jackson County

Sams Vly  13  1900PST  0  0  Thunderstorm Wind (G80)
See below.
Strong winds associated with a thunderstorm caused considerable damage in a 0.5 mile by 2.5 mile area in Sam's Valley. It is believed that this was a microburst and the strong winds lasted 5-6 minutes.

No warning was issued for this storm as there was little in the way of radar evidence and no spotter reports. In fact, this office did not hear of this event until the local newspaper started making inquiries. Damage included a destroyed 120x30 foot hangar at Beagle Sky Ranch, another damaged hangar, two overturned planes, a damaged home, several destroyed outbuildings, and tree damage.

Coos County

Countywide  22  0635PST  1730PST  0  0  Lightning
See below.

Curry County

Countywide  22  0635PST  1730PST  0  0  Lightning
See below.

Douglas County

Countywide  22  0635PST  1730PST  0  0  Lightning
See below.

Jackson County

Countywide  22  0635PST  1730PST  0  0  Lightning
See below.

Josephine County

Countywide  22  0635PST  1730PST  0  0  Lightning
See below.

Klamath County

Countywide  22  0635PST  1730PST  0  0  Lightning
See below.

Lake County

Countywide  22  0635PST  1730PST  0  0  Lightning
See below.

A Red Flag Warning for dry lightning was issued for fire weather zones 616/617/619/620/621/622/623/624/625 at 0635 PDT on 07/22/02 and expired at 1730 PDT on 07/22/02. These zones include all or part of the counties listed above.

Numerous thunderstorms did develop this day...mostly east of the Cascades. Some of the initial strikes may have been dry...but the thunderstorms this day were wet for the most part. Some fire starts did occur anyway.

Coos County

Countywide  26  1550PST  29  1900PST  0  0  Wild/Forest Fire
See below.

Curry County

Countywide  26  1550PST  29  1900PST  0  0  Wild/Forest Fire
OREGON, Southwest

See below.

Douglas County
Countywide
Countywide 26 1550PST 0 0 Wild/Forest Fire
Countywide 28 0800PST
See below.

Jackson County
Countywide
Countywide 26 1550PST 0 0 Wild/Forest Fire
Countywide 29 1900PST
See below.

Josephine County
Countywide
Countywide 26 1550PST 0 0 Wild/Forest Fire
Countywide 29 1900PST
See below.

Klamath County
Countywide
Countywide 26 1550PST 0 0 Wild/Forest Fire
Countywide 27 2100PST
See below.

Lake County
Countywide
Countywide 26 1550PST 0 0 Wild/Forest Fire
Countywide 27 2100PST
See below.

A Red Flag Warning was issued for all or part of the above counties at the above times. Fire weather zones 617 through 625 were included in the original warning.

The warning for zones 624/625 was for strong north winds and poor overnight RH recoveries. No observations are currently available, but the winds were quite strong in this warning period. The warning was cancelled at 2100 PDT on 07/27.

The warning for zones 617-623 was initially for poor overnight recoveries combined with moderate northeast winds across the ridgetops.

The warning for zone 617 was cancelled at 0900 PDT on 07/28/02. The warning for the remaining zones remained in place and was extended at 0700 PDT on 07/29/02 for expected Haines Indices of 6. All warnings were cancelled at 1900 PDT on 07/29.

No observations are currently available for verification, but the ongoing fires in this area exhibited extreme behavior during the warning period with very strong winds reported by fire weather personnel. Even if the warning criteria was not strictly met, the forecasters on-station and in the field felt that conditions were critical enough due to ongoing fires and dense, dry fuels in the area.

PACIFIC

NOT RECEIVED.

PENNSYLVANIA, Central

Centre County
Centre Hall
Centre Hall 19 1615EST 0 0 Thunderstorm Wind (G50)
Trees were down in Centre Hall.

Lancaster County
Buck
Buck 19 1655EST 0 0 Thunderstorm Wind (G50)
Large limbs and power lines were down in Buck.

Cambria County
Glasgow
Glasgow 23 1214EST 0 0 Thunderstorm Wind (G50)
Trees were down in Glasgow.

Clearfield County
10 SE Curwensville
10 SE Curwensville 23 1220EST 0 0 Thunderstorm Wind (G50)
Trees and power poles were reported down 10 miles southeast of Curwensville.

280
Huntingdon County

Huntingdon

23  1335EST

Trees and wires were down in Huntingdon.

Union County

Lewisburg

23  1338EST

Trees were down in Lewisburg.

Somerset County

New Centerville

26  1530EST

Trees were reported down in New Centerville.

Potter County

8 SE Costello

28  0920EST

Trees were reported down 8 miles southeast of Costello.

Warren County

Pittsfield to 3 N Pittsfield

28  1130EST  3  100  0  0  35K

A tornado touched down in Warren County, just north of the town of Pittsfield, on the morning of July 28th, 2002. The tornado damaged 5 homes and knocked down approximately 100 trees. The tornado was 100 yards wide with a path of just over 3 miles long. Wind speeds were estimated to be around 100 mph, rating this tornado as an F1 on the Fujita Scale. The worst damage occurred near Brooks Rock Road north of Pittsfield. It was estimated that the tornado touched down around 12:30 p.m. local time, and remained on the ground for about 10 minutes.

Clinton County

Woolrich

28  1220EST

Trees were down in Woolrich.

Lycoming County

Williamsport

28  1240EST

Trees and power lines were reported down in Williamsport.

Lycoming County

Tivoli

28  1255EST

Trees were down in Tivoli.

Warren County

Clarendon

28  1312EST

Trees were reported down in Clarendon.

Elk County

8 N Ridgway

28  1330EST

Trees were reported down 8 miles north of Ridgway.

McKean County

Smethport

28  1335EST

Trees were down in Smethport.

Warren County

Starbrick

28  2315EST

Trees were reported down in Starbrick.

Clearfield County

1 NE Du Bois

31  1820EST

Trees were reported down 1 mile northeast of DuBois.

PENNSYLVANIA, East

PAZ060>062-067>071  Berks - Lehigh - Northampton - Chester - Montgomery - Bucks - Delaware - Philadelphia

01  0000EST  0  0  0

03  2359EST

Drought

The unseasonably warm and dry weather across Eastern Pennsylvania during the month of July intensified drought conditions. A drought emergency remained in effect for most of Eastern Pennsylvania with mandatory watering restrictions in place. Philadelphia, Montgomery and Bucks Counties were under drought warning status and asked to voluntarily conserve water. 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 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 Noahonittuck, 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 the dry July, the salt front went from mile marker 62 north to mile marker 73, one mile farther upstream than is normal for July. 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.

On a county weighted average July monthly precipitation totals ranged from 0.8 inches in Berks County to 2.1 inches in Philadelphia County. Chester, Delaware and Lehigh Counties all averaged less than one inch of precipitation. Normal monthly precipitation is around 4.3 inches. The New York City Reservoirs which feed the Delaware River decreased for 89.0 percent of capacity on July 1st to 77.1 percent of capacity on July 31st. On July 31st the salt front on the Delaware River was about one mile farther upstream than normal. For the month streamflow on the Delaware and Lehigh Rivers was about 75 percent of normal and on the Schuylkill River was about half of normal.

July total monthly precipitation was 0.35 inches at the Reading Regional Airport, 1.15 inches at the Lehigh Valley International Airport and 2.12 inches at the Philadelphia International Airport.

### Storm Data and Unusual Weather Phenomena

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time Local/Standard</th>
<th>Time Standard</th>
<th>Path Length (Miles)</th>
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<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
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<tr>
<td><strong>PAZ060&gt;062-067&gt;071</strong></td>
<td>01</td>
<td>0900EST</td>
<td>1200EST</td>
<td>282</td>
<td></td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td>Excessive Heat</td>
</tr>
<tr>
<td>Berks - Lehigh - Northampton - Chester - Montgomery - Bucks - Delaware - Philadelphia</td>
<td>04</td>
<td>1800EST</td>
<td></td>
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<td>July started with unseasonably hot and humid weather across Eastern Pennsylvania. The hottest and most humid weather occurred on Independence Day before a cold front quietly moved through the region during the night of the 4th. Highest temperatures were well into the 90s to around 100 degrees and heat indices reached around 105 degrees on the 3rd and 4th. The hot spell was the deadliest of the summer season for the city of Philadelphia as 15 persons perished from heat related causes. Most of the victims were elderly people with underlying illnesses. Most were found in apartments with windows either shut or barely open and no fans or air conditioners. A 44-year-old man was found outdoors and later died in a city hospital. In Bucks County, a 42-year-old man died from the heat while he was cutting the grass.</td>
<td>06</td>
<td>1200EST</td>
<td>1800EST</td>
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<tr>
<td>Carbon - Monroe - Berks - Lehigh - Northampton - Chester - Montgomery - Bucks - Delaware - Philadelphia</td>
<td>08</td>
<td>0900EST</td>
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<td>0</td>
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<td>Excessive Heat</td>
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<td>Highest temperatures included 102 degrees at the Franklin Institute within Philadelphia, 101 degrees in Green Lane (Montgomery County), 99 degrees at the Philadelphia International Airport, the Willow Grove NAS (Montgomery County) and in West Chester (Chester County), 98 degrees in Neshaminy Falls and Perkasie (Bucks County), 97 degrees in Hamburg (Berks County), 96 degrees in Bath (Northampton County), 95 degrees in Reading (Berks County) and the Lehigh Valley International Airport and 94 degrees in East Stroudsburg (Monroe County). F75PH, F64PH, F80PH, M78PH, M40PH, M88PH, M75PH, F77PH, F80PH, F71PH, M45PH, M80PH, M82PH, M81PH, M44OU</td>
<td>09</td>
<td>1800EST</td>
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<td>A northerly flow of air through the lower half of the atmosphere pushed smoke from forest fires in northern Quebec across Eastern Pennsylvania. The smoke reduced visibilities and could be smelled from the afternoon of the 6th into the afternoon of the 7th. Winds started to shift from north on the 7th to the west on the 8th and pushed the smoke farther to the east. In all about 50 fires were burning near James Bay about 500 miles north of Montreal in Quebec Province. The fires consumed about 150,000 acres and caused the evacuation of the Native American village of Nemaska.</td>
<td>08</td>
<td>0900EST</td>
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<td>Two days of high temperatures in the 90s claimed the life of a 78-year-old man in Philadelphia. The high temperature on the 9th reached 96 degrees at the Franklin Institute within Philadelphia and 95 degrees at the Philadelphia International Airport. With dewpoint temperatures in the upper 60s on the 9th, afternoon heat indices reached near 100 degrees. A cold frontal passage late in the day on the 9th brought cooler and less humid air into the region. M78PH</td>
<td>09</td>
<td>1800EST</td>
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Another work week of hot weather affected southeastern Pennsylvania from the 15th through the 19th. High temperatures reached into the 90s in most areas each day. The highest temperatures mainly occurred on the 17th. Humidity levels were high for most of the week, except for the 16th when a weak back door cold front moved through the region. The heat and humidity extended into the Lehigh Valley from the 17th through the 19th. Many locations in the Poconos had high temperatures in the 90s on the 17th also. A second stronger front moved through the state during the evening of the 19th and the early morning of the 20th and ended the string of 90 degree high temperatures. Two men in Philadelphia (a 57-year-old and a 73-year-old) died from hyperthermia. Highest temperatures included 98 degrees in Valley Forge (Chester County) and Lehighton (Carbon County), 97 degrees at the Franklin Institute within Philadelphia, Reading (Berks County) and Bath (Northampton County), 96 degrees in Easton (Northampton County) and Perkasie (Bucks County), 95 degrees at the Philadelphia International Airport, Doylestown (Bucks County) and East Stroudsburg (Monroe County) and 94 degrees in Pottstown (Montgomery County). M73PH, M57P H

**Bucks County**

- **2 SW Hulmeville to Bristol**
  - 19 1552EST 1600EST
  - 0 0
  - Thunderstorm Wind (G50)
  - A severe thunderstorm knocked down numerous large limbs and wires in both Bensalem and Bristol Townships. PECO Energy reported about 30,000 of its customers lost power from a series of thunderstorms that affected southeastern Pennsylvania on the 19th including Bucks County.

- **Bristol**
  - 19 1600EST
  - 0 0 0
  - Lightning
  - A lightning strike and the ensuing fire damaged a business in Bristol Township. A couple of fire fighting units were needed to bring the fire under control.

- **Doylestown**
  - 19 1728EST
  - 0 0
  - Thunderstorm Wind (G50)
  - A severe thunderstorm knocked down numerous large limbs and wires in the Doylestown area. PECO Energy reported about 30,000 of its customers lost power from the series of thunderstorms that affected southeastern Pennsylvania on the 19th including Bucks County.

**Monroe County**

- **5 NW Mt Pocono Arpt**
  - 23 1410EST
  - 0 0
  - Thunderstorm Wind (G52)
  - A severe thunderstorm knocked down trees and wires in Coolbaugh Township.

- **Pocono Pines to Pocono Lake**
  - 23 1427EST
  - 0 0
  - Thunderstorm Wind (G52)
  - A severe thunderstorm knocked down several trees and wires from Pocono Pines east through Pocono Lakes.

- **Beaver Meadows**
  - 23 1437EST
  - 0 0
  - Thunderstorm Wind (G52)
  - A severe thunderstorm knocked over several trees in Packer Township. Scattered power outages were reported in the township.

- **Northeast Portion**
  - 23 1440EST 1700EST
  - 0 0
  - Flash Flood

- **Northwest Portion**
  - 23 1440EST 1700EST
  - 0 0
  - Flash Flood

  Thunderstorms with very heavy rain moved through the same locations of Carbon and Monroe Counties. They produced adjusted Doppler Radar Storm Total estimates of three to four inches in Kidder Township in Carbon County and in Tobyhanna and Coolbaugh Townships and in Mount Pocono Borough in Monroe County. An automated gage in Blakeslee along the Monroe/Carbon County line recorded 3.38 inches of rain, most of which fell within an hour. At Mount Pocono Airport, 2.25 inches of rain fell between 3 p.m. and 4 p.m. EDT. The heavy rain caused highway and stream flooding. In Monroe County, flooding led to accidents on Pennsylvania State Routes 115 and 940 in Tobyhanna Township. Other storm totals included 3.08 inches in Mount Pocono Airport and 3.03 inches in Pocono Summit (both in Monroe County).

- **Blakeslee**
  - 23 1458EST
  - 0 0
  - Hail(0.75)

- **Blakeslee to 2 N Stroudsburg**
  - 23 1458EST 1520EST
  - 0 0
  - Thunderstorm Wind (G52)

  A severe thunderstorm dropped pea to dime size hail in Blakeslee and also downed numerous trees from west to east across the
central third of Monroe County paralleling Interstate 80. Trees were knocked down in Locust Lake, Pocono Lake, Jackson Township and Stroud Township. About 3,000 Pennsylvanians, Power and Light customers lost power in the county as a result of downed trees, limbs and lines as well as numerous transformers that were hit by lightning. The most outages were reported in the Neola area of Jackson Township.

Carbon County

Weisport

23 1505EST 0 0 Thunderstorm Wind (G52)

A severe thunderstorm knocked over several trees in Franklin Township. Scattered power outages were reported in the township.

Leesport to Maiden Creek

23 1515EST 0 0 Thunderstorm Wind (G50)

The gust front that was initiated by a severe thunderstorm knocked down trees and wires in Leesport Borough and Ontelaunee and Maiden Creek Townships.

Lehighton

Tstm Wind/Hail 10K 0

A severe thunderstorm caused widely scattered wind damage in Lehighton County. Trees and wires were knocked down in Washington Township and just southwest of Allentown in Salisbury and Lower Macungie Townships.

Bucks County

1 W Richlandtown

23 1530EST 0 0 Thunderstorm Wind (G52)

A thunderstorm with estimated winds of around 40 mph tore down a rotten 90-foot tall white ash tree in Richland Township. A limb on the tree crashed through the second floor bedroom ceiling and allowed rain to fall through that floor and the one below it. The combination of wind and water damage was estimated at $10,000. No persons were injured.

Bangor to Portland

23 1535EST 1545EST 0 0 Thunderstorm Wind (G52)

A severe thunderstorm knocked down several trees and wires in the northeast part of Northampton County. Trees and wires were knocked down in Bangor and Portland Boroughs and Upper Mount Bethel Township.

Northampton County

Bangor to Portland

23 1535EST 1545EST 0 0 Thunderstorm Wind (G52)

A severe thunderstorm knocked down several trees and wires in the northeast part of Northampton County. Trees and wires were knocked down in Bangor and Portland Boroughs and Upper Mount Bethel Township.

PAZ060>062-067>071

Berks - Lehigh - Northampton - Chester - Montgomery - Bucks - Delaware - Philadelphia

28 0900EST 0900EST 3 0 Excessive Heat

Another hot and very humid air mass moved into Eastern Pennsylvania on the 28th. In most areas this hot spell produced some of the highest heat indices of the summer as they reached near 105°F and between 105°F and 110°F in Philadelphia during the afternoon of the 29th. A cold front moved through the region during the night of the 30th. While temperatures on the 31st still reached into the 90s, dew point temperatures and the moisture content of the air mass was considerably lower. The apparent temperature (or heat index) matched and did not exceed the afternoon high temperature. More humid air again moved in during the start of August. The string of days with high temperatures of 90 degrees or higher did not end until August 5th or 6th. There were two reported heat related deaths. In Montgomery County, a 54-year-old male contractor was found lying unconscious on the ground outside a house he was working on. He later died. A 79-year-old woman was found dead in Lansdale. All the windows in her residence were closed and she had no fan or air conditioning. In Philadelphia, an 87-year-old woman perished. The hot weather and high humidity levels taxed electric utilities and the PJM Interconnection issued a usage advisory.

For most places the highest temperatures with the July part of this hot spell occurred on the 29th and included 101 degrees at the Franklin Institute within Philadelphia, 100 degrees in Crum Creek (Delaware County), 98 degrees at the Philadelphia International Airport, West Chester and Valley Forge (Chester County) and Neshaminy Falls (Bucks County), 97 degrees in Reading (Berks County) and Bath (Northampton County), 96 degrees in Pottstown (Montgomery County), Lehighton (Carbon County) and Perkasie (Bucks County), 95 degrees at the Lehigh Valley International Airport and Doylestown (Bucks County), 94 degrees in Morgantown (Berks County) and 93 degrees in East Stroudsburg (Monroe County).

The hot spell at the end of July cemented the month as being well above normal. Monthly mean temperatures averaged about 2 degrees warmer than normal. The July monthly mean temperature at the Philadelphia International Airport was 79.6 degrees, 2.0 degrees above normal and the 11th warmest July on record. There were 17 days that the high temperatures was 90 degrees or higher. The July monthly mean temperature at the Lehigh Valley International Airport was 79.6 degrees, 2.3 degrees above normal. There were 14 days that the high temperatures was 90 degrees or higher. The July monthly mean temperature in Reading was 77.1 degrees, 2.5 degrees above normal. There were 16 days that the high temperatures was 90 degrees or higher. M54OU, F79PH, F87PH
## Storm Data and Unusual Weather Phenomena

**July 2002**

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Tree down in Montrose. Tree branches and wires down on car in New Milford.

A small F0 tornado touched down a mile and a half southwest of Crossingville. The tornado then moved northeast along a path approximately three miles in length. The damage path was intermittent along it's entire length. Several dozen trees were downed.

Thunderstorm winds downed many trees. One tree fell on a car.

Dime size hail was observed.

Thunderstorm winds downed a lot of trees in the Meadville and Saegertown areas.

Dime size hail was observed near the intersection of Interstate 79 and U.S. Route 6N.

Thunderstorm winds downed several trees across the western portion of the county.

Thunderstorm winds downed several large tree limbs.

Thunderstorm winds downed numerous trees and limbs.

Thunderstorm winds downed two large trees and several limbs.

Thunderstorm winds downed several large tree limbs.

Thunderstorm winds downed a few trees and large limbs.

Thunderstorm winds downed two trees.

Thunderstorm winds downed many trees across the county.

Thunderstorm winds downed many trees across the county.
Heavy thunderstorm rains produced minor flooding along Route 51 in the Pleasant Hills area.

Heavy thunderstorm rains produced minor street and basement flooding.

Thunderstorm winds downed a few large trees.

Thunderstorm winds downed several large trees.

Thunderstorm winds downed several large trees onto State Highway 50.

Heavy thunderstorm rains dropped 2 inches of rain in less than an hour, producing flash flooding in the Overbrook section of Pittsburgh. Several cars were stranded in 4 to 5 feet of water at the intersection of Routes 51 and 88. First-floor flooding was also reported in several buildings in the vicinity.

Thunderstorms producing nearly 2 inches of rain in less than an hour created street flooding in downtown Uniontown, as well as along US Route 40 just west of town. 

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Pennsylvania, West

Greene County
Brave
Torrential thunderstorm rains produced minor roadway and basement flooding.

Allegheny County
Pittsburgh
Slow-moving thunderstorms produced over 2 inches of rain in less than one hour across the suburbs of Pittsburgh. This heavy rain forced Sewickley Creek out of its banks in Sewickley Heights, flooding Fern Hollow Road. Across the North Hills, the heavily traveled Babcock Boulevard between McKnight Road and Thompson Run Road was closed for a period of time due to roadway flooding.

Mercer County
Grove City
Thunderstorm winds downed several trees.

Butler County
Evans City
Thunderstorm winds downed numerous trees in the Evans City area. These strong winds also collapsed the corner of a building.

Westmoreland County
Murrysville
A microburst hit portions of eastern Murrysville. The length of the damage path was about one quarter of a mile. The width was approximately 200 yards. The strongest winds were estimated to be about 80 MPH.

The downburst first struck a car dealership on the corner of Puckety Drive and Route 22. The east side of the building was blown out. One car was overturned and several cars were moved. The microburst path continued east along Route 22 and ripped part of a roof from a house on the north side of Route 22. The damage path then continued across Route 22 where a plant nursery sustained significant damage. The roof was torn off and several walls were toppled. Boards, insulation and other debris were thrown downwind to the southeast. There was also one minor injury.

Westmoreland County
2 W Latrobe
Thunderstorm winds downed several trees.

Westmoreland County
Latrobe
Thunderstorm winds downed several trees.

Westmoreland County
Latrobe
Thunderstorm winds downed several trees in the Latrobe area.

Forest County
Tionesta
Thunderstorm winds downed several large trees.

Clarion County
Tylersburg
Thunderstorm winds downed several trees and power lines along State Route 36. One of these trees fell onto a pickup truck.

Clarion County
2 N Scotch Hill to 2 E Scotch Hill
An F0 tornado with an estimated maximum wind of 70 MPH blew through Cook Forest State Park. This tornado had a total path length of 2 miles and a width of 150 yards. Approximately 60 to 70 trees were downed by this tornado, with one falling onto a parked pickup truck. A roof was also blown off of an outbuilding.

Jefferson County
Brockway
Thunderstorm winds downed several large trees.

Jefferson County
Punxsutawney
Thunderstorm winds downed several trees. One tree fell onto a house, causing minor damage.

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287
### PENNSYLVANIA, West

**Clarion County**
- **Clarion**
  - Time: 2200EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage Property: 5K
  - Character of Storm: Thunderstorm Wind
  - Path Length (Miles): 0
  - Path Width (Yards): 0
  - Notes: Thunderstorm winds downed several trees in the Clarion area.

**Clarion County**
- **Rimersburg**
  - Time: 2248EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage Property: 10K
  - Character of Storm: Thunderstorm Wind
  - Path Length (Miles): 0
  - Path Width (Yards): 0
  - Notes: Thunderstorm winds downed numerous trees.

**Westmoreland County**
- **Greensburg**
  - Time: 1414EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage Property: 25K
  - Character of Storm: Flood
  - Path Length (Miles): 0
  - Path Width (Yards): 0
  - Notes: Torrential thunderstorm rains produced numerous cases of minor roadway flooding. Some basement flooding was also reported.

**Venango County**
- **Chapmanville**
  - Time: 1520EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage Property: 2K
  - Character of Storm: Thunderstorm Wind
  - Path Length (Miles): 0
  - Path Width (Yards): 0
  - Notes: Thunderstorm winds downed a few trees.

**Venango County**
- **Utica**
  - Time: 1520EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage Property: 5K
  - Character of Storm: Thunderstorm Wind
  - Path Length (Miles): 0
  - Path Width (Yards): 0
  - Notes: Thunderstorm winds downed several large trees.

**Forest County**
- **3 SW Hunter**
  - Time: 1615EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage Property: 1K
  - Character of Storm: Thunderstorm Wind
  - Path Length (Miles): 0
  - Path Width (Yards): 0
  - Notes: Thunderstorm winds downed a large tree on Red Brush Road.

**Venango County**
- **Plumer**
  - Time: 1740EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage Property: 5K
  - Character of Storm: Thunderstorm Wind
  - Path Length (Miles): 0
  - Path Width (Yards): 0
  - Notes: Thunderstorm winds downed several large trees.

**Mercer County**
- **Salem**
  - Time: 1935EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage Property: 5K
  - Character of Storm: Thunderstorm Wind
  - Path Length (Miles): 0
  - Path Width (Yards): 0
  - Notes: Thunderstorm winds downed several trees and power lines.

**Mercer County**
- **Transfer**
  - Time: 1935EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage Property: Thunderstorm Wind (G50)^
  - Character of Storm: Thunderstorm Wind (G50)^
  - Path Length (Miles): 0
  - Path Width (Yards): 0
  - Notes: A spotter measured a thunderstorm wind gust to 58 MPH.

**Mercer County**
- **Fredonia**
  - Time: 2020EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage Property: 10K
  - Character of Storm: Thunderstorm Wind
  - Path Length (Miles): 0
  - Path Width (Yards): 0
  - Notes: Thunderstorm winds downed numerous trees.

**Westmoreland County**
- **Scottdale**
  - Time: 1700EST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage Property: 5K
  - Character of Storm: Thunderstorm Wind
  - Path Length (Miles): 0
  - Path Width (Yards): 0
  - Notes: Thunderstorm winds downed several trees.

### PUERTO RICO

**Western Interior**
- **San Sebastian**
  - Time: 1950AST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage Property: 3K
  - Character of Storm: Lightning
  - Path Length (Miles): 0
  - Path Width (Yards): 0
  - Notes: Lightning struck a utility pole and knocked it down at Culebrinas sector in San Sebastian.

**Central Interior**
- **Corozal**
  - Time: 1400AST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage Property: Heavy Rain
  - Character of Storm: Heavy Rain
  - Path Length (Miles): 0
  - Path Width (Yards): 0
  - Notes: Strong thunderstorms caused very heavy rain over the north central sections of Puerto Rico. Emergency Manager Officials indicated a tree down in Toa Alta and a mudslide in Corozal.

**San Juan And Vicinity**
- **Toa Alta**
  - Time: 1400AST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage Property: Heavy Rain
  - Character of Storm: Heavy Rain
  - Path Length (Miles): 0
  - Path Width (Yards): 0
  - Notes: Strong thunderstorms caused very heavy rain over the north central sections of Puerto Rico. Emergency Manager Officials indicated a tree down in Toa Alta and a mudslide in Corozal.

**San Juan And Vicinity**
- **San Juan to Guaynabo**
  - Time: 1515AST
  - Number of Persons Killed: 0
  - Number of Persons Injured: 0
  - Estimated Damage Property: Funnel Cloud
  - Character of Storm: Funnel Cloud
  - Path Length (Miles): 0
  - Path Width (Yards): 0
  - Notes: A Private Meteorologist and several people spotted a few funnel clouds in the vicinity of Rio Piedras sector and Guaynabo.
**RHODE ISLAND**

- **Kent County**
  - **Coventry**
    - **Date/Time**: 23 1535EST
    - **Description**: Thunderstorm Wind (G50) 2K

- **Providence County**
  - **Providence to Scituate**
    - **Date/Time**: 23 1545EST
    - **Description**: Thunderstorm Wind (G50) 5K

- **Providence County**
  - **Cranston**
    - **Date/Time**: 23 1550EST
    - **Description**: Hail(0.75)

Severe thunderstorms downed trees in Coventry, Providence, and Scituate and produced dime sized hail in Cranston.

**SOUTH CAROLINA, Central**

- **Chesterfield County**
  - **8 E Jefferson**
    - **Date/Time**: 02 1445EST
    - **Description**: Thunderstorm Wind (G50)
      - Highway Patrol and Jefferson Police reported trees down on Angelus Road between Jefferson and Chesterfield.

- **Fairfield County**
  - **Ridgeway**
    - **Date/Time**: 02 1730EST
    - **Description**: Thunderstorm Wind (G50)
      - Electric company reported trees and powerlines down on Park Road in Ridgeway.

- **Richland County**
  - **Blythewood**
    - **Date/Time**: 02 1746EST
    - **Description**: Thunderstorm Wind (G50)
      - Sheriff reported trees and powerlines down on Grover Wilson road in Blythewood.

- **Aiken County**
  - **New Holland**
    - **Date/Time**: 02 1825EST
    - **Description**: Hail(0.75)
      - Sheriff reported 3/4 inch hail in New Holland.

- **Aiken County**
  - **New Holland**
    - **Date/Time**: 02 1815EST
    - **Description**: Lightning
      - Three men in a metal shed were struck and injured by lightning, none seriously.

- **Aiken County**
  - **North Augusta**
    - **Date/Time**: 02 2039EST
    - **Description**: Lightning
      - A woman was struck in her home through the telephone line. She was not seriously injured.

- **Lancaster County**
  - **10 N Lancaster**
    - **Date/Time**: 03 1345EST
    - **Description**: Hail(0.75)
      - Spotter reported 3/4 inch hail north of Lancaster.

- **Chesterfield County**
  - **Pageland**
    - **Date/Time**: 03 1400EST
    - **Description**: Hail(0.75)
      - Sheriff reported 3/4 inch hail in Pageland.

- **Lancaster County**
  - **1 E Lancaster**
    - **Date/Time**: 03 1410EST
    - **Description**: Thunderstorm Wind (G50)
      - Sheriff reported trees down on the east side of Lancaster.

- **Lancaster County**
  - **4 S Lancaster**
    - **Date/Time**: 03 1415EST
    - **Description**: Hail(1.75)
      - Sheriff reported golf ball size hail at Jones Crossroads.

- **Chesterfield County**
  - **4 E Chesterfield**
    - **Date/Time**: 03 1545EST
    - **Description**: Hail(0.75)
      - Sheriff reported 3/4 inch hail between Chesterfield and Cheraw.

- **Fairfield County**
  - **Mitford**
    - **Date/Time**: 03 1607EST
    - **Description**: Thunderstorm Wind (G50)
      - Sheriff reported trees down on Heritage road.

- **Newberry County**
  - **Whitmire to Jalapa**
    - **Date/Time**: 03 1645EST
    - **Description**: Thunderstorm Wind (G55)
      - Sheriff reported trees down from Whitmire to Jalapa.
# Storm Data and Unusual Weather Phenomena

**Location**

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<tr>
<th>Location</th>
<th>Date</th>
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### SOUTH CAROLINA, Central

**Sumter County**
- Electric coop reported powerlines down in Homebranch near Paxville.
  - 5 S Sumter to 6 S Sumter
  - 31 1445EST
  - 0 0 0 0
  - Thunderstorm Wind (G60)

**Barnwell County**
- Barnwell
  - Sheriff reported numerous trees down in Barnwell.
  - 31 1500EST
  - 0 0 0 0
  - Thunderstorm Wind (G60)

**Barnwell County**
- 1 S Williston
  - Public reported nickel size hail near Williston
  - 31 1500EST
  - 0 0
  - Hail(0.88)

**Orangeburg County**
- Holly Hill to Eutawville
  - EOC reported trees down in Holly Hill and Eutawville.
  - 31 1500EST
  - 0 0 0 0
  - Thunderstorm Wind (G55)

**Orangeburg County**
- Vance
  - EOC reported dime size hail in Vance.
  - 31 1500EST
  - 0 0
  - Hail(0.75)

**Aiken County**
- 2 S Jackson
  - Savannah River Site reported dime size hail.
  - 31 1530EST
  - 0 0 0 0
  - Hail(0.75)

**Bamberg County**
- 1 N Ehrhardt
  - Electric coop reported trees and powerlines down in Windsor.
  - 31 1546EST
  - 0 0 0 0
  - Thunderstorm Wind (G50)

**Edgefield County**
- 6 SW Edgefield
  - Highway Patrol reported a couple of trees down on Lodge Road.
  - 31 1610EST
  - 0 0 0 0
  - Thunderstorm Wind (G50)

**Orangeburg County**
- Orangeburg
  - SKYWARN spotter reported 1 inch hail at the Orangeburg Hospital.
  - 31 1615EST
  - 0 0 0
  - Hail(1.00)

**Orangeburg County**
- 5 NE Orangeburg
  - Highway Patrol reported trees down along I-26.
  - 31 1630EST
  - 0 0 0 0
  - Thunderstorm Wind (G50)

**Barnwell County**
- Williston
  - Newspaper reported several large trees down in Williston.
  - 31 1510EST
  - 0 0 0
  - Thunderstorm Wind (G55)

**Barnwell County**
- Williston
  - Newspaper reported quarter size hail in the Williston area.
  - 31 1512EST
  - 0 0
  - Hail(1.00)

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### SOUTH CAROLINA, North Coastal

**SCZ032**
- Florence
  - Heavy fog caused two accidents on Hwy 52 near Florence. The first accident occurred when an 18 wheeler collided head-on with another vehicle. Two other automobiles were involved. The second accident occurred when a cement truck rear ended another truck. There were two minor injuries, and one serious.
  - 01 0630EST 0730EST
  - 0 3 20K
  - Fog

**Marlboro County**
- Clio
  - Newspaper reported quarter size hail in the Williston area.
  - 04 1301EST
  - 0 0
  - Hail(1.50)
Storm Data and Unusual Weather Phenomena

SOUTH CAROLINA, North Coastal

SOUTH CAROLINA, North Coastal

Sheriff reported walnut size hail. Several old trees were reported down due to thunderstorm winds.

Darlington County
5 N Hartsville
04 1500EST 0 0 35K Thunderstorm Wind (G70)
A National Weather Service storm survey determined that a microburst destroyed a house barn, tore a porch off a barn, and tore shingles from a roof. Numerous trees were also uprooted. The NWS employee estimated winds in excess of 80 mph.

Williamsburg County
2 NW Henry
04 1641EST 0 0 Hail(1.50)
Law enforcement reported walnut size hail.

Williamsburg County
2 E Hemingway
05 1500EST 0 0 Lightning
Ebenezer Baptist Church was struck by lightning. No significant damage reported.

Horry County
Shell
05 2200EST 0 0 Thunderstorm Wind (G60)
Law enforcement reported several trees down.

Florence County
8 SE Florence
05 2220EST 0 0 Thunderstorm Wind (G60)
Law enforcement reported trees down on Hwy 327 near Moore's Crossroad.

Horry County
Aynor
05 2251EST 0 0 Thunderstorm Wind (G55)
Tree down on Jordanville Road. Dime size hail was also reported.

Florence County
15 E Lake City
05 2322EST 0 0 Thunderstorm Wind (G60)
Florence 911 reported a large tree down across Lake City Hwy.

Williamsburg County
Hemingway
05 2340EST 0 0 Thunderstorm Wind (G60)
Williamsburg 911 reported trees and power lines down.

Georgetown County
Georgetown
11 2045EST 2200EST 0 0 Flood
Police reported numerous roads flooded in the city. The police blocked off some of the roads. Radar estimated rainfall in the area between two and five inches.

Horry County
Myrtle Beach
20 1100EST 0 0 30K Lightning
Lightning cause a fire at the Chuck Wagon Restaurant on Kings Highway.

Horry County
1 W Surfside Beach
20 1800EST 0 0 Thunderstorm Wind (G60)
Horry county 911 reported trees down.

Marion County
3 SE Britton Neck
20 2035EST 0 0 Thunderstorm Wind (G60)
Horry county 911 reported trees down along Hwy 378.

Horry County
2 W Conway
20 2035EST 0 0 Thunderstorm Wind (G60)
911 reported trees down on Hwy 378.

Georgetown County
4 SW Carvers Bay
21 1430EST 0 0 Hail(0.88)
911 center reported nickel size hail.

Dillon County
Little Rock
30 2122EST 0 0 Thunderstorm Wind (G60)
Dillon county 911 reported trees down in Little Rock and on Interstate 95 near the Little Pee Dee River Bridge.

Horry County
Loris
31 1600EST 0 0 Hail(0.75)
Dime size hail reported.
## Storm Data and Unusual Weather Phenomena

**July 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>Character of Storm</th>
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<td>Numerous trees and large limbs were blown down across the city. At least one tree fell on a house.</td>
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<td>Lightning caused fires at two homes and at a business.</td>
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<td>Hail was reported from Fingerville to Lake Bowen.</td>
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<tr>
<td>Several trees were blown down along Saluda Rd, Straight Rd, and McConnells Rd.</td>
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<tr>
<td>Several trees were blown down. One fell on a mobile home.</td>
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### Storm Data and Unusual Weather Phenomena

**July 2002**

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<th>Path Width (Yards)</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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### Storm Data and Unusual Weather Phenomena

#### July 2002

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<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>
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<td>Trees and powerlines were blown down.</td>
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<tr>
<td>Some trees and powerlines were blown down.</td>
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<td>Trees and powerlines were blown down.</td>
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<tr>
<td>A microburst in the Arcadia community caused several trees to snap off at their bases. One tree fell on a mobile home.</td>
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<tr>
<td>A tree and several large limbs were blown down in and around Walhalla.</td>
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<td>Some trees were blown down along Lowrys Rd south of Gaffney.</td>
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<tr>
<td>Lightning struck a tree, which fell on and killed a bicyclist. M\OU</td>
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<td>Hail covered the ground.</td>
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<td>Large trees, up to 30 inches in diameter and 40 feet tall, were blown down.</td>
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<td>Severe drought conditions continued through the month of July over south coastal South Carolina. Rainfall for the month was 3.65 inches below normal for the month.</td>
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<td>Trees, limbs and power lines were down.</td>
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<td>Several large limbs were down.</td>
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<td>Numerous trees were down in and around the town.</td>
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### Storm Data and Unusual Weather Phenomena

**SOUTH CAROLINA, South Coastal**

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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</th>
<th>Character of Storm</th>
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<td>Large limbs and trees were down.</td>
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<td>8 E Gardens Corner</td>
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<td>Several trees and large limbs were down.</td>
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<td>Large limbs and power lines were down.</td>
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<td>Numerous trees, large limbs and downed power lines caused widespread power outages.</td>
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</tr>
<tr>
<td>Charleston</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A brief tornado touch down caused some damage to a storage building for an apartment complex, shingles taken off for the most part, a couple of signs bent, and a few small trees uprooted and some limbs taken out of larger trees. The touchdown was near the CBS affiliate and not far from their Doppler radar.</td>
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<td>Lightning struck a nearby pine tree and traveled to the a house. It blew 20 feet of shingles off the roof and ignited the insulation board between the studs and the brick wall.</td>
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<tr>
<td>Beaufort</td>
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<td></td>
<td>Trees and large limbs were blown down.</td>
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<td>Several trees were down.</td>
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<tr>
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<td>Numerous trees and power lines were blown down and several boats were overturned.</td>
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<td>Several trees and large limbs were down across roads.</td>
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### SOUTH CAROLINA, South Coastal

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<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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<td>Colleton County</td>
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### SOUTH DAKOTA, Central and North

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**SOUTH DAKOTA, Central and North**

Hughes County 15 S Harrold 07 1430CST 0 0 Hail(1.00)
Lyman County 3 NE Kennebec 07 1615CST 0 0 Thunderstorm Wind (G52)

Sixty mph winds dislodged a piece of tin from the roof of a barn, knocked a barn door off of its hinges, and downed some large tree branches.

Mepherson County 14 NE Leola 09 1715CST 0 0 Hail(4.50)
Mepherson County 13 NE Leola 09 1716CST 0 0 Hail(1.00)
Brown County 11 NW Frederick 09 1728CST 0 0 Hail(0.75)
Marshall County 2 N Lake City 09 1945CST 0 0 Thunderstorm Wind (G52)
Corson County 9 NW Mc Laughlin 20 0210CST 0 0 Thunderstorm Wind (G52)

Stanley County 5 W Ft Pierre 21 0010CST 0 0 Thunderstorm Wind (G52)

Hughes County Pierre 21 0025CST 0 0 Thunderstorm Wind (G51)M
Edmunds County Mina 21 0240CST 0 0 Thunderstorm Wind (G52)

Many tree branches were brought down near Mina.

Spink County Mellette 21 0245CST 0 0 Thunderstorm Wind (G65)M
Brown County Groton 21 0300CST 0 0 Thunderstorm Wind (G70)

Winds to 80 mph brought down many trees in the Groton cemetery. Some power poles along with many tree branches were also downed in Groton.

Clark County 7 SE Bradley 21 0300CST 0 0 Thunderstorm Wind (G52)
Codington County Florence 21 0300CST 0 0 Thunderstorm Wind (G56)
Brown County 1 NW Aberdeen 21 0320CST 0 0 Thunderstorm Wind (G52)
Day County 6.5 NE Roslyn 21 0327CST 0 0 Thunderstorm Wind (G52)
Marshall County 2 SW Lake City to 2 SE Lake City 21 0350CST 0 0 Thunderstorm Wind (G78)

Winds of 90 mph or higher uprooted many trees from Roy Lake to Clear Lake south of Lake City and also swept away and damaged many docks, boat lifts, and boats.

Roberts County Sisseton 21 0417CST 0 0 Thunderstorm Wind (G60)M
Hyde County Highmore 21 0100CST 0 0 Thunderstorm Wind (G54)M

Winds over 60 mph brought some trees and branches down in Highmore.

Hughes County 10 NW Pierre 24 1830CST 0 0 Hail(1.00)
**SOUTH DAKOTA, Central and North**

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*Rough winds to 80 mph brought down many branches and a few trees in Pierre. A new house under construction was also blown down.*

*A tornado touched down briefly north of Presho and caused no damage. Path length and width were estimated.*

*Seventy mph winds blew a large trailer across a yard.*

*Seventy mph winds downed some trees and many branches throughout Aberdeen. Some trees fell on power lines knocking power out for several hours for over 2000 people in Aberdeen. A couple of vehicles were damaged from trees or branches falling on them. A large trailer was also toppled by the strong winds.*

*Sixty mph winds blew off some large advertising signs at the ball field.*
Storm Data and Unusual Weather Phenomena

SOUTH DAKOTA, Central and North

Lyman County
13 N Vivian
26 2200CST
0 0
Thunderstorm Wind (G52)

Walworth County
Selby
26 2200CST
0 0
Thunderstorm Wind (G56)

Grant County
9 SW Marvin
27 0145CST
0 0
Thunderstorm Wind (G52)

Corson County
6 W Trail City
28 0015CST
0 0
Thunderstorm Wind (G56)

Dewey County
Timber Lake
28 0030CST
0 0
Thunderstorm Wind (G56)

Edmunds County
Bowdle
28 0315CST
0 0
Hail(0.75)

Mcpherson County
Leola
28 1932CST
0 0
Hail(0.75)

Edmunds County
3 N Mina
28 2018CST
0 0
Hail(0.75)

Brown County
1 W Aberdeen
28 2030CST
0 0
Hail(0.75)

Corson County
2 W Keldron
30 2300CST
0 0
Hail(0.75)

Mcpherson County
5 NW Long Lake
31 0200CST
0 0
Hail(0.88)

Mcpherson County
6 NW Leola
31 0230CST
0 0
Hail(0.88)

Brown County
Aberdeen Arpt
31 0237CST
0 0
Thunderstorm Wind (G52)*M

Day County
8 SE Pierpont
31 0310CST
0 0
Thunderstorm Wind (G52)

Brown County
Claremont
31 0315CST
0 0
Thunderstorm Wind (G52)

Marshall County
Britton
31 0330CST
0 0
Thunderstorm Wind (G56)

A large tree was downed in Britton along with several large tree branches.

Roberts County
2 SE Claire City
31 0400CST
0 0
Hail(0.75)

Roberts County
2 SE Claire City
31 0400CST
0 0
Thunderstorm Wind (G61)

SOUTH DAKOTA, Southeast

Charles Mix County
3 NE Academy
09 1900CST
0 0
Hail(1.50)

Charles Mix County
Marty
09 1938CST
0 0
Hail(0.75)

Charles Mix County
Wagner
09 1958CST
0 0
Hail(0.88)
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Heavy rain caused flooding of numerous streets, and caused sewers to back up in a four block area. At least 60 homes suffered significant damage from the flooding of basements by the sewer backup.
### SOUTH DAKOTA, Southeast

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*Thunderstorm winds broke off branches and smaller debris from trees. Thunderstorm winds damaged vehicles and crops. The amount of property and crop damage was not known. Large hail damaged vehicles and crops. The amount of property and crop damage was not known. Large hail cracked windows and damaged shingles on buildings. The hail also caused severe damage to vehicles. Crop damage was also reported, but the amount of crop damage was not known. Wind driven large hail damaged a few vehicles and knocked down tree branches. The amount of damage was not known. Large hail caused severe damage to numerous vehicles, including many at car dealerships. Damage also occurred to windows, siding, and shingles on buildings. The hail caused damage to greens at a municipal golf course. Thunderstorm winds caused widespread tree and power line damage. Many trees were blown down, and power lines were down throughout the city with resulting power outages. Minor damage to structures, such as shingles blown off, was also reported. Thunderstorm winds caused tree and power line damage. The amount of damage was not known. Thunderstorm winds caused widespread tree damage, and also blew down power lines. Thunderstorm winds blew down power lines and caused tree damage. The amount of damage was not known.*
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Large hail damaged crops in the area, but the amount of crop damage was not known.
Kingsbury County
Iroquois 28 1205CST 0 0 Hail(0.75)

Kingsbury County
Manchester 28 1211CST 0 0 Hail(0.75)

Kingsbury County
De Smet 28 1231CST 0 0 Hail(0.75)

Kingsbury County
4 S Lake Preston 28 1240CST 0 0 100K Hail(4.50)
Large hail broke windows in homes and vehicles, and otherwise damaged vehicles. The hail also caused crop damage, but the amount of crop damage was not known.

Sanborn County
16 NE Woonsocket 28 1240CST 0 0 Hail(0.75)

Kingsbury County
5 SW Lake Preston 28 1241CST 0.3 50 0 0 Tornado (F0)
A tornado was observed crossing Lake Thompson, but did not reach land, and caused no reported damage.

Kingsbury County
Lake Preston 28 1245CST 0 0 Hail(1.00)

Kingsbury County
Lake Preston 28 1245CST 0 0 Thunderstorm Wind (G52)

Kingsbury County
5 SW Lake Preston 28 1245CST 0 2 500K Hail(2.75)
Large hail broke windows, and heavily damaged vehicles and boats. Holes were punched by the hail in some of the boats. Two boaters on Lake Thompson were injured by the hail. One was taken to the hospital with a head injury, and the other suffered several welts on the back from hailstone hits. Crop damage also occurred, but the amount of crop damage was not known.

Kingsbury County
2 N Oldham to 10 E Oldham 28 1252CST 0 0 500K Hail(1.75)
Large hail broke numerous windows in buildings and vehicles in Oldham and rural areas nearby, and caused other damage to vehicles. The hail also caused or along with severe winds contributed to widespread crop damage in the area, with some crops totally destroyed. The amount of crop damage, as well as the part of the crop damage due to hail, could not be determined. However, thousands of acres were believed to be affected.

Kingsbury County
2 N Oldham to 10 E Oldham 28 1252CST 0 0 200K Thunderstorm Wind (G61)
Thunderstorm winds caused widespread tree damage. The winds also blew down power lines and poles, including many in the town of Oldham. The winds, along with large hail, contributed to widespread crop damage, with some corn and soybean crops totally destroyed. The amount of crop damage, as well as the part due to the winds, could not be determined. However, thousands of acres were believed to be affected.

Kingsbury County
5 S Lake Preston 28 1255CST 0.1 100 0 0 10K Tornado (F0)
A brief tornado damaged several farm buildings.

Miner County
Carthage 28 1258CST 0 0 Hail(0.75)

Kingsbury County
De Smet 28 1300CST 0 0 10K Lightning
Lightning struck a livestock barn on the Laura Ingalls Wilder homestead and killed two carriage horses inside. The barn suffered minor damage.

Brookings County
2 NE Sinai 28 1305CST 0 0 Hail(0.75)
Large hail, accompanied by 50 mph winds, caused crop damage. The amount of crop damage was not known.

Brookings County
3 W Sinai to 2 W Sinai 28 1307CST 1 50 0 0 Tornado (F0)
SOUTH DAKOTA, Southeast

A tornado caused no reported damage.

Brookings County
Sinai to 5 E Sinai

28 1310CST 0 0 3M Thunderstorm Wind (G78)
Thunderstorm winds caused widespread structural, tree, and power line damage in and near Sinai. The roof was ripped off a mobile home, a well drilling business was destroyed, the siding from another business was ripped off, part of a grain elevator was smashed, several garages were destroyed or heavily damaged, several trees were blown down and widespread tree debris littered the area, and power lines and poles were blown down. Power outages lasted until the next day. At a farm just east of Sinai, five grain bins, a machine shed, and several small shacks were destroyed, and the farmhouse was damaged, with about 300 thousand dollars in damage estimated at this farm alone. Other small farm structures in the area were reported to be destroyed or damaged. Crops in the area were heavily damaged by the wind and accompanying hail, with one witness watching as a bean field “just disappeared.” The crop damage was widespread, but the amount of crop damage could not be determined.

Brookings County
8 S Brookings

28 1320CST 1335CST 0 0 Thunderstorm Wind (G61)
Thunderstorm winds damaged a barn, a silo, and tore the roof off a mobile home. The winds also caused tree damage, including fifty to sixty trees blown down on a golf course.

Moody County
5 NW Ward

28 1328CST 0 0 Thunderstorm Wind (G52)

Lake County
Nunda

28 1328CST 0 0 Thunderstorm Wind (G52)

Brookings County
Brookings

28 1330CST 1335CST 0 0 100K Hail(1.00)
Large hail, driven by severe winds, damaged vehicles and crops. The amount of crop damage was not known.

Brookings County
Brookings

28 1330CST 1335CST 0 0 50K Thunderstorm Wind (G52)
Thunderstorm winds caused tree damage, and damaged the siding of a mobile home. The winds, along with large hail, also damaged crops, but the amount of crop damage was not known.

Moody County
5 NW Ward

28 1350CST 0 0 Thunderstorm Wind (G52)

Moody County
Ward

28 1355CST 0 0 Thunderstorm Wind (G61)

Brookings County
Elkton to 5 S Elkton

28 1355CST 1410CST 0 0 100K Thunderstorm Wind (G61)
Thunderstorm winds caused tree damage, and damage to buildings such as shingles blown off and broken windows from tree debris. The winds caused severe crop damage in the area, especially to corn crops. The amount of crop damage was not known.

Lake County
Madison to 5 S Madison

28 1355CST 1400CST 0 0 Thunderstorm Wind (G61)
Thunderstorm winds damaged trees and crops. The amount of damage was not known.

Moody County
Flandreau

28 1410CST 0 0 Thunderstorm Wind (G61)
Thunderstorm winds caused tree and power line damage, with power lines blocking roads. The amount of damage was not known.

Minnehaha County
Dell Rapids

28 1425CST 1427CST 0 0 Hail(1.75)
Large hail caused crop and vehicle damage. The amount of damage was not known.

Moody County
2 S Trent

28 1428CST 0 0 Hail(0.88)
Heavy rain left three to four inches of standing water in the town of Pringle, and water covered roads adjacent to Bear Creek around Pringle. An inch of rain was recorded in ten minutes in Pringle and radar estimates were around 2.5 inches per hour over the area.

Three inch diameter tree limbs were blown down.

Several large tree limbs were blown down.

Several tree limbs were blown down.

Three inch diameter tree limbs were blown down.
**SOUTH DAKOTA, West**

**Pennington County**
3 S Rapid City to 3 E New Underwood

- **Date:** 20
- **Time:** 1958MST
- **Path Length:** 2025MST
- **Number of Persons Killed:** 0
- **Number of Persons Injured:** 0
- **Estimated Damage:** 1M
- **Character of Storm:** Thunderstorm Wind (G77)^M

**Meade County**
(Rca)Ellsworth Afb R

- **Date:** 20
- **Time:** 2013MST
- **Path Length:** 0
- **Path Width:** 0
- **Number of Persons Killed:** 0
- **Number of Persons Injured:** 0
- **Estimated Damage:** Thunderstorm Wind (G92)^M

An extremely strong severe thunderstorm moved over Rapid City and across the adjacent plains east of town. Downburst winds and the associated gust front caused damage along a nearly 30 mile long path. Extensive tree damage occurred throughout the eastern half of the city with countless trees and branches in excess of 24 inch diameter felled. Two roofs were torn off by the winds. Flying debris damaged numerous cars and buildings. The NWS office in downtown Rapid City measured an 80 mph wind gust, with meteorologists noting winds were sustained at 60 to 70 mph for 5 minutes. Ellsworth AFB wind equipment measured a 106 mph wind gust from the thunderstorm as it passed. Costs associated only with tree damage and cleaning up debris were conservatively estimated at $500,000.

**Jackson County**

- **Kadoka:**
  - **Date:** 20
  - **Time:** 2230MST
  - **Path Length:** 0
  - **Path Width:** 0
  - **Character of Storm:** Thunderstorm Wind (G57)

**Lawrence County**

- **8 W Spearfish:**
  - **Date:** 23
  - **Time:** 2025MST
  - **Path Length:** 0
  - **Path Width:** 0
  - **Character of Storm:** Hail(0.75)

**Custer County**

- **3 SW Hermosa:**
  - **Date:** 26
  - **Time:** 1540MST
  - **Path Length:** 0
  - **Path Width:** 0
  - **Character of Storm:** Hail(1.00)

- **Custer County**
  - **6 SE Hermosa:**
    - **Date:** 26
    - **Time:** 1610MST
    - **Path Length:** 0
    - **Path Width:** 0
    - **Character of Storm:** Hail(0.88)

**Butte County**

- **5 N Belle Fourche:**
  - **Date:** 26
  - **Time:** 1648MST
  - **Path Length:** 0
  - **Path Width:** 0
  - **Character of Storm:** Thunderstorm Wind (G52)

A semi trailer was blown a highway.

**Meade County**

- **Ellsworth Afb:**
  - **Date:** 26
  - **Time:** 1725MST
  - **Path Length:** 0
  - **Path Width:** 0
  - **Character of Storm:** Hail(1.00)

**Jackson County**

- **Silver City:**
  - **Date:** 26
  - **Time:** 1730MST
  - **Path Length:** 0
  - **Path Width:** 0
  - **Character of Storm:** Hail(0.75)

**Harding County**

- **1 N Buffalo:**
  - **Date:** 26
  - **Time:** 1737MST
  - **Path Length:** 0
  - **Path Width:** 0
  - **Character of Storm:** Thunderstorm Wind (G53)^M

- **Haakon County**
  - **Philip:**
    - **Date:** 26
    - **Time:** 1923MST
    - **Path Length:** 0
    - **Path Width:** 0
    - **Character of Storm:** Thunderstorm Wind (G50)^M

**Harding County**

- **3 SE Harding:**
  - **Date:** 27
  - **Time:** 1950MST
  - **Path Length:** 0
  - **Path Width:** 0
  - **Character of Storm:** Thunderstorm Wind (G70)

- **Harding County**
  - **10 S Harding:**
    - **Date:** 27
    - **Time:** 2015MST
    - **Path Length:** 0
    - **Path Width:** 0
    - **Character of Storm:** Thunderstorm Wind (G61)

**Harding County**

- **1 N Buffalo:**
  - **Date:** 27
  - **Time:** 2019MST
  - **Path Length:** 0
  - **Path Width:** 0
  - **Character of Storm:** Thunderstorm Wind (G71)^M

Several spotters estimated wind gusts of 70 to 80 mph. The Buffalo ASOS measured an 83 mph wind gust as the storm passed.

**Butte County**

- **20 NW Belle Fourche to Belle Fourche:**
  - **Date:** 27
  - **Time:** 2000MST
  - **Path Length:** 2010MST
  - **Path Width:** 0
  - **Character of Storm:** Thunderstorm Wind (G52)

**Perkins County**

- **13 W Lodgepole:**
  - **Date:** 27
  - **Time:** 2040MST
  - **Path Length:** 0
  - **Path Width:** 0
  - **Character of Storm:** Thunderstorm Wind (G52)

**Harding County**

- **1 S Reva:**
  - **Date:** 27
  - **Time:** 2053MST
  - **Path Length:** 0
  - **Path Width:** 0
  - **Character of Storm:** Thunderstorm Wind (G61)

**Butte County**

- **11 NE Castle Rock:**
  - **Date:** 27
  - **Time:** 2100MST
  - **Path Length:** 0
  - **Path Width:** 0
  - **Character of Storm:** Thunderstorm Wind (G56)^M

**SDZ001**

- **Harding:**
  - **Date:** 31
  - **Time:** 1900MST
  - **Path Length:** 0
  - **Path Width:** 0
  - **Character of Storm:** High Wind (G53)^M

Winds gusted to 61 mph at the Buffalo, South Dakota ASOS site behind a particularly potent July cold front.
<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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</table>
TENNESSEE, Central

Spotter reported numerous trees were blown down around town. There was some roof damage to homes. There was damage to a church just west of Woodbury. News article reported that Higgins Flea Market, which was under construction, was destroyed. There was damage to the Higgins Car Wash and Mini Storage adjacent to the Flea Market site. Winds blew off a section of the roof from the Cannon Community Church, Smith Funeral Home, and several storage buildings directly across the road from the Higgins property. Also, a tree was blown down into the rear of the First Baptist Church. A fallen tree destroyed the back porch to a home on 221 E. High St.

EMA reported trees were down.

Thunderstorm Wind (G50)
02 1515CST
2 W Cookeville

Putnam County

Sheriff reported dime size hail.

Hail (0.75)
02 1522CST
Mc Burg

Lincoln County

Sheriff reported trees were blown down around the county.

Thunderstorm Wind (G50)
02 1530CST
Countywide

Lincoln County

EMA reported trees and power lines were down.

Thunderstorm Wind (G50)
02 1530CST
Gladeville

Wilson County

EMA reported walnut size hail at Cedars of Lebanon State Park.

Hail (1.50)
02 1530CST
9.3 SW Lebanon

Wilson County

Police reported trees and power lines were down in the city.

Thunderstorm Wind (G50)
02 1600CST
New Johnsonville

Humphreys County

911 center reported several trees and power lines were down in the city.

Thunderstorm Wind (G50)
02 1605CST
Pulaski

Giles County

Sheriff’s office reported numerous trees and power lines were down.

Thunderstorm Wind (G50)
02 1630CST
Countywide

Benton County

A newspaper article reported that lightning struck the Dekalb County Sheriff’s Department through the 911 radio antenna. The bolt knocked out several computer systems and phone lines. Lightning also struck a barn near Liberty, causing a fire. The barn was completely destroyed.

Lightning
02 2200CST
Smithville

Dekalb County

Police reported trees were down. A large, 80-year-old pecan tree was blown onto a home near Alexandria.

Thunderstorm Wind (G60)
02 2215CST
Smithville

Dekalb County

Public reported a roof taken off a brick building. The roof landed on a car. Also, nearby home had a roof taken off from an addition to a home. It occurred near Curd Rd. and Mt. Juliet Rd.

Thunderstorm Wind (G60)
02 2320CST
Mt Juliet

Wilson County

Trees and power lines were down in the Bordeaux area.

Thunderstorm Wind (G50)
02 2330CST
Nashville

Davidson County

One home in Colonial Estate off Rossview Road was destroyed after a lightning strike. Also, a second home on Lillian Drive was severely damaged by lightning.

Lightning
02 2330CST
2.5 E Clarksville

Montgomery County
**Storm Data and Unusual Weather Phenomena**

**July 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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<tr>
<td>TENNESSEE, Central</td>
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<td>Newpaper article stated that a power line was down.</td>
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<tr>
<td>Spotter reported dime size hail just west of Lebanon.</td>
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<td>Mt Juliet</td>
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<tr>
<td>Trees were down in Mt. Juliet. Power lines were down on Quarry Rd.</td>
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<tr>
<td>WEMA reported row of stores had roof damage at intersection of Lebanon Rd. and Mt. Juliet Rd. Also, 2 dug-out roofs were blown off the Mt. Juliet Little League Park, which is located just east of the intersection of Lebanon Road and Mt. Juliet Rd. There was about $8,000 worth of damage at the Little League Park.</td>
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<td>911 center reported a tree was down on Hwy 49.</td>
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310
## Storm Data and Unusual Weather Phenomena

**July 2002**

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A 9-year-old boy was struck by lightning while coming out of the water at Rock Island State Park. He stopped breathing, and his father administered CPR and revived his son. The boy was hospitalized with some burns, and then released.

EMA and SKYWARN spotters reported flooding on Brown's Creek, Leelan Lane, Granny White Pike, Woodvale Drive, Green Hills and Forest Hills area. By 240 PM CST, Otter Creek Road was closed due to high water. By 308 PM CST, Brown's Creek was out of its banks at the fairgrounds.

EMA reported numerous roads were closed due to high water.

Strong thunderstorm winds pulled back the tin roof from Fayetteville Lumber Store.

EMA reported a bridge was washed out on Highway 49. Highway 49 was also impassable due to high water at this location.

Law enforcement reported numerous trees and power lines down in the West End area.

News article reported several large trees and power lines were down.

Law enforcement reported a tree was blown down. The tree took down a power line. The power line was across a home on Sulfur Spring Road.
### TENNESSEE, Central

**Lawrence County**
- **Leoma**
  - **Time**: 25 Jul 2002 1100 CST
  - **Persons Killed**: 0
  - **Persons Injured**: 0
  - **Property Damage**: 2K
  - **Character of Storm**: Lightning
  - **Description**: Lightning struck a home and caused a house fire on Price Jenkins Rd. The initial point of entry was the wall, and then along an antenna booster cable.

**Maury County**
- **Columbia**
  - **Time**: 28 Jul 2002 1230 CST
  - **Persons Killed**: 0
  - **Persons Injured**: 0
  - **Property Damage**: Thunderstorm Wind (G50)
  - **Description**: Strong thunderstorm winds blew down a 170-year-old oak tree at the site of James K. Polk’s vegetable garden. The tree had a circumference of 13 feet and 9 inches. The tree, perhaps, may have been planted by James K. Polk.

**Davidson County**
- **Countywide**
  - **Time**: 30 Jul 2002 1140 CST
  - **Persons Killed**: 0
  - **Persons Injured**: 0
  - **Property Damage**: Thunderstorm Wind (G50)
  - **Description**: OEM reported 6 trees were blown down along with numerous power lines.

**Benton County**
- **West Portion**
  - **Time**: 30 Jul 2002 1210 CST
  - **Persons Killed**: 0
  - **Persons Injured**: 0
  - **Property Damage**: Thunderstorm Wind (G50)
  - **Description**: Sheriff’s office reported a tree was down on U.S. Hwy 70.

**Humphreys County**
- **Waverly**
  - **Time**: 30 Jul 2002 1225 CST
  - **Persons Killed**: 0
  - **Persons Injured**: 0
  - **Property Damage**: Thunderstorm Wind (G50)
  - **Description**: Sheriff’s office reported 2 trees were blown down.

**Dickson County**
- **White Bluff**
  - **Time**: 30 Jul 2002 1200 CST
  - **Persons Killed**: 0
  - **Persons Injured**: 0
  - **Property Damage**: Lightning (15K)
  - **Description**: A bolt of lightning struck the roof of a home. The lightning caused a hole on the roof and started a fire.

**Putnam County**
- **Monterey**
  - **Time**: 30 Jul 2002 1415 CST
  - **Persons Killed**: 0
  - **Persons Injured**: 2
  - **Property Damage**: Lightning
  - **Description**: Sara Nugent, 34 and her son, Chad Nugent, 14, of Old Walton Road, were hurt when they were struck by lightning while sitting on a porch. They had to be airlifted to Erlanger Hospital in Chattanooga for treatment of their injuries.

**Putnam County**
- **Cookeville**
  - **Time**: 30 Jul 2002 1443 CST
  - **Persons Killed**: 0
  - **Persons Injured**: 0
  - **Property Damage**: Lightning (30K)
  - **Description**: Lightning struck the top of a three-story brick house on Russell Strausse Rd. This started a fire in the attic and caused some damage to the sheetrock.

### TENNESSEE, East

**Bledsoe County**
- **South Portion**
  - **Time**: 02 Aug 2002 1300 CST
  - **Persons Killed**: 0
  - **Persons Injured**: 0
  - **Property Damage**: Thunderstorm Wind
  - **Description**: Utility company reported several trees downed in the southern portion of the county.

**Hawkins County**
- **2 E Mt Carmel**
  - **Time**: 02 Aug 2002 1335 EST
  - **Persons Killed**: 0
  - **Persons Injured**: 0
  - **Property Damage**: Hail(0.75)
  - **Description**: Dime size hail was reported 2 miles east of Mt. Carmel

**Sullivan County**
- **1 W Kingsport**
  - **Time**: 02 Aug 2002 1335 EST
  - **Persons Killed**: 0
  - **Persons Injured**: 0
  - **Property Damage**: Hail(0.75)
  - **Description**: Dime size hail was reported 1 mile west of Kingsport.

**Greene County**
- **Baileyton**
  - **Time**: 02 Aug 2002 1415 EST
  - **Persons Killed**: 0
  - **Persons Injured**: 0
  - **Property Damage**: Thunderstorm Wind
  - **Description**: The highway department reported trees down in the north end of the county near Baileyton.

**Hawkins County**
- **Rogersville**
  - **Time**: 02 Aug 2002 1500 EST
  - **Persons Killed**: 0
  - **Persons Injured**: 0
  - **Property Damage**: Lightning
  - **Description**: Lightning struck the roof of the Great American Mountain Magic Restaurant and caused significant damage.

**Hawkins County**
- **Rogersville**
  - **Time**: 02 Aug 2002 1505 EST
  - **Persons Killed**: 0
  - **Persons Injured**: 0
  - **Property Damage**: Thunderstorm Wind
  - **Description**: Trees were reported down in Rogersville and Striggersville.

**Cocke County**
- **1 E Newport**
  - **Time**: 02 Aug 2002 1730 EST
  - **Persons Killed**: 0
  - **Persons Injured**: 0
  - **Property Damage**: Thunderstorm Wind
  - **Description**: A bolt of lightning struck the roof of the Great American Mountain Magic Restaurant and caused significant damage.

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**312**
TENNESSEE, East

Trees were reported down 1 mile east of Newport.

**Sevier County**

*Countywide*

<table>
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<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
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Trees were reported down across the county.

**Grainger County**

*Rutledge*

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Numerous large trees were reported down in and around Rutledge.

**Sullivan County**

*Kingsport*

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Numerous trees and power lines were reported down in Kingsport.

**Jefferson County**

*Douglas Lake North*

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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 Wind Speed</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 1820EST</td>
<td>0</td>
<td>1</td>
<td></td>
<td></td>
<td>Lightning</td>
<td></td>
</tr>
</tbody>
</table>

A 17 year old female received shock from lightning strike while leaning against a metal camping trailer.

**Carter County**

*Blue Spg*

<table>
<thead>
<tr>
<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 Wind Speed</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 1830EST</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td>0.75</td>
<td></td>
</tr>
</tbody>
</table>

Dime size hail was reported at Blue Spring.

**Blount County**

*Knoxville McGhee Tys*

<table>
<thead>
<tr>
<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 Wind Speed</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 1901EST</td>
<td>0</td>
<td>0</td>
<td>1K</td>
<td>0</td>
<td>59</td>
<td></td>
</tr>
</tbody>
</table>

The ASOS at McGhee Tyson Airport recorded a 59 mph wind gust.

**Loudon County**

*Countywide*

<table>
<thead>
<tr>
<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 Wind Speed</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 1935EST</td>
<td>0</td>
<td>0</td>
<td>25K</td>
<td>0</td>
<td>Thunderstorm Wind</td>
<td></td>
</tr>
</tbody>
</table>

Trees were reported down across the county.

**Monroe County**

*Madisonville*

<table>
<thead>
<tr>
<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 Wind Speed</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 1940EST</td>
<td>0</td>
<td>0</td>
<td>15K</td>
<td>0</td>
<td>Thunderstorm Wind</td>
<td></td>
</tr>
</tbody>
</table>

Trees were reported down in Madisonville.

**Hamblen County**

*Morristown*

<table>
<thead>
<tr>
<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 Wind Speed</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 1941EST</td>
<td>0</td>
<td>0</td>
<td>10K</td>
<td>0</td>
<td>Thunderstorm Wind</td>
<td></td>
</tr>
</tbody>
</table>

Trees were reported down along Kidwells Ridge road.

**Grainger County**

*Rutledge*

<table>
<thead>
<tr>
<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 Wind Speed</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 2000EST</td>
<td>0</td>
<td>0</td>
<td>20K</td>
<td>0</td>
<td>Thunderstorm Wind</td>
<td></td>
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</tbody>
</table>

Numerous large trees were reported down at Rutledge and across the remainder of the county.

**Roane County**

*Rockwood*

<table>
<thead>
<tr>
<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 Wind Speed</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 2005EST</td>
<td>0</td>
<td>0</td>
<td>20K</td>
<td>0</td>
<td>Thunderstorm Wind</td>
<td></td>
</tr>
</tbody>
</table>

Newspaper report indicated that thunderstorm winds caused damage to a pontoon boat as well as roof damage to two adjacent homes in Rockwood.

**Anderson County**

*Clinton*

<table>
<thead>
<tr>
<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 Wind Speed</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 2110EST</td>
<td>0</td>
<td>0</td>
<td>25K</td>
<td>0</td>
<td>Thunderstorm Wind</td>
<td></td>
</tr>
</tbody>
</table>

Numerous trees were reported down countywide. One tree was downed on 25W near the Knox County line and another was reported down on Tilleary Road.

**Loudon County**

*Lenoir City*

<table>
<thead>
<tr>
<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 Wind Speed</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 2130EST</td>
<td>0</td>
<td>0</td>
<td>25K</td>
<td>0</td>
<td>Thunderstorm Wind</td>
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</tr>
</tbody>
</table>

Numerous trees were reported down in Lenoir City and across the remainder of the county.

**Carter County**

*Elizabethton*

<table>
<thead>
<tr>
<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 Wind Speed</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>03 1415EST</td>
<td>0</td>
<td>0</td>
<td>10K</td>
<td>0</td>
<td>Thunderstorm Wind</td>
<td></td>
</tr>
</tbody>
</table>

Trees were reported down around Elizabethton.

**Washington County**

*Countywide*

<table>
<thead>
<tr>
<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 Wind Speed</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>03 1432EST</td>
<td>0</td>
<td>0</td>
<td>20K</td>
<td>0</td>
<td>Thunderstorm Wind</td>
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</tr>
</tbody>
</table>

Several trees were reported down across the county.

**Unicoi County**

*Unicoi*

<table>
<thead>
<tr>
<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 Wind Speed</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>03 1435EST</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td>1.00</td>
<td></td>
</tr>
</tbody>
</table>

Quarter size hail was reported in Unicoi.
TENNESSEE, East

<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>
<th>Number of Persons Injured</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sullivan County</td>
<td>03 1450EST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Hail(1.00)</td>
</tr>
<tr>
<td>Piney Flats</td>
<td></td>
<td>Quarter size hail was reported at Piney Flats.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Greene County</td>
<td>03 1540EST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>Greeneville</td>
<td></td>
<td>Trees were reported down in Greeneville and in other parts of the county.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sullivan County</td>
<td>03 1540EST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>Kingsport</td>
<td></td>
<td>Numerous trees were reported down in the Kingsport vicinity.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hawkins County</td>
<td>03 1600EST</td>
<td>0</td>
<td>0</td>
<td>10K</td>
<td>0</td>
<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>Surgoinsville</td>
<td></td>
<td>Trees were reported down at Surgoinsville.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Greene County</td>
<td>03 1610EST</td>
<td>0</td>
<td>0</td>
<td>25K</td>
<td>0</td>
<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>Mosheim</td>
<td></td>
<td>Numerous trees were reported down from the highway 107 cut-off through Mosheim.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hancock County</td>
<td>03 1620EST</td>
<td>0</td>
<td>0</td>
<td>1K</td>
<td>0</td>
<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>Kyles Ford</td>
<td></td>
<td>Trained spotter indicated that numerous large tree branches were downed in 60 mph and higher wind gusts.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Claiborne County</td>
<td>03 1750EST</td>
<td>0</td>
<td>0</td>
<td>Hail(0.88)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tazewell</td>
<td></td>
<td>Dime to nickel size hail was reported at Tazewell.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Union County</td>
<td>03 1750EST</td>
<td>0</td>
<td>0</td>
<td>35K</td>
<td>0</td>
<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>Maynardville</td>
<td></td>
<td>Numerous trees and power lines were reported down in Maynardville and countywide. Also, some homes and barns were damaged from the strong wind gusts.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Knox County</td>
<td>03 1815EST</td>
<td>0</td>
<td>0</td>
<td>35K</td>
<td>0</td>
<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>Knoxville</td>
<td></td>
<td>Numerous trees were reported down in Knoxville and across the county.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anderson County</td>
<td>03 1830EST</td>
<td>0</td>
<td>0</td>
<td>20K</td>
<td>0</td>
<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>Oliver Spgs</td>
<td></td>
<td>A large tree was downed on two buildings of the Oliver Springs Public Library.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Loudon County</td>
<td>03 1845EST</td>
<td>0</td>
<td>0</td>
<td>10K</td>
<td>0</td>
<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>Loudon</td>
<td></td>
<td>The dome atop the Loudon County Courthouse was damaged by thunderstorm wind gusts and a tree fell into a rear window of the second story of the building.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Roane County</td>
<td>03 1905EST</td>
<td>0</td>
<td>0</td>
<td>20K</td>
<td>0</td>
<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>Rockwood</td>
<td></td>
<td>Numerous trees and power lines were reported down in Rockwood and across the county.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Meigs County</td>
<td>03 1945EST</td>
<td>0</td>
<td>0</td>
<td>20K</td>
<td>0</td>
<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>Decatur</td>
<td></td>
<td>Numerous trees were reported down in Decatur and across the county.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rhea County</td>
<td>03 1950EST</td>
<td>0</td>
<td>0</td>
<td>25K</td>
<td>0</td>
<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>Spring City</td>
<td></td>
<td>Numerous trees were reported down in Spring City and across the county.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>McMinn County</td>
<td>03 1955EST</td>
<td>0</td>
<td>0</td>
<td>5K</td>
<td>0</td>
<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>Englewood</td>
<td></td>
<td>A tree was reported down on highway 418 in Englewood.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blount County</td>
<td>03 2045EST</td>
<td>0</td>
<td>0</td>
<td>25K</td>
<td>0</td>
<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>Louisville</td>
<td></td>
<td>Trees and power lines were reported down in Louisville.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

 Julio 2002
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>
<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>
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<tbody>
<tr>
<td>TENNESSEE, East</td>
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<tr>
<td>Johnson County</td>
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<td></td>
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<td></td>
<td></td>
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<tr>
<td>Neva</td>
<td>04</td>
<td>1530EST 1630EST</td>
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<td></td>
<td></td>
<td></td>
<td>Flash Flood</td>
</tr>
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<td></td>
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<td>Flash Flood</td>
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<td>1 S Oak Grove</td>
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<td>Thunderstorm Wind</td>
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<td>Sullivan County</td>
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<td></td>
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<td>Washington County</td>
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<td>Rhea County</td>
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<tr>
<td>Monroe County</td>
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<td></td>
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<tr>
<td>Tellico Plains</td>
<td>10</td>
<td>1445EST</td>
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<td></td>
<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>Hamilton County</td>
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<td></td>
<td></td>
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<tr>
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<td>Thunderstorm Wind</td>
</tr>
<tr>
<td>Marion County</td>
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<td></td>
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<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Jasper</td>
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<td>Hail(0.75)</td>
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Dime size hail was reported in and around Tellico Plains.
# Storm Data and Unusual Weather Phenomena

**Location** | **Date** | **Time** | **Character of Storm**
--- | --- | --- | ---
**TENNESSEE, East**

**Hawkins County**

**Countywide**
- **1640EST**
- **0 0 15K**
- Thunderstorm Wind

Several trees were reported down across the county.

**Mcminn County**

**Athens**
- **1700EST**
- **0 0 70K**
- Thunderstorm Wind

Thunderstorm wind gusts tore the roof off of a business on Washington Avenue which slammed into a bed and breakfast next door damaging the home. Also, a plate-glass window was blown out and several trees were downed in the storm.

**Bradley County**

**Charleston**
- **1730EST**
- **0 0 25K**
- Thunderstorm Wind

Numerous trees were downed in and around Charleston. Also, a camper was blown onto a truck in Charleston.

**Marion County**

**5 SE Whitwell**
- **1815EST**
- **0 0**
- Hail(0.75)

Dime size hail covered the ground 5 miles southeast of Whitwell.

**Carter County**

**Elizabethton**
- **1845EST**
- **0 0 25K**
- Thunderstorm Wind

Numerous trees were reported down in Elizabethton and across the county.

**Marion County**

**Powells Xrd**
- **1850EST**
- **0 0 10K**
- Thunderstorm Wind

Three trees were reported down in the Powells Crossroads area.

**Sullivan County**

**1 W Jacob to 3 SW Friendship**
- **1745EST 1750EST**
- **0 3 20K 20K**
- Thunderstorm Wind

Wind downed a tree onto a van carrying juveniles near Jacobs Creek Camp. Several persons were injured and transported to the hospital. Other trees were downed at Little Oak Campground near Friendship.

**Loudon County**

**3 NE Lenoir City**
- **1925EST**
- **0 0 2K**
- Thunderstorm Wind

Numerous large limbs and a few small trees down on Hidden Valley Lane.

**Blount County**

**Maryville to Friendsville**
- **1925EST 1935EST**
- **0 0 20K 15K**
- Thunderstorm Wind

Numerous trees and powerlines downed.

**Knox County**

**5 W Knoxville**
- **2015EST**
- **0 0 10K**
- Thunderstorm Wind

4 trees knocked down in West Knoxville.

**Monroe County**

**Sweetwater**
- **1710EST**
- **0 0 5K**
- Thunderstorm Wind

4 trees reported down in Sweetwater.

**Polk County**

**Benton**
- **1845EST**
- **0 0 5K**
- Thunderstorm Wind

Trees down reported by dispatch.

**Bledsoe County**

**Pikeville**
- **1930EST**
- **0 0 5K**
- Thunderstorm Wind

Numerous trees down

**Hawkins County**

**5 W Rogersville**
- **1440EST**
- **0 0 5K**
- Thunderstorm Wind

Trees down on Carters Valley Roand and Slate Hill Road

**Sullivan County**

**Blountville**
- **1445EST**
- **0 0 15K 5K**
- Thunderstorm Wind

Trees down on powerlines.

**Knox County**

**5 N Knoxville**
- **1530EST**
- **0 0 5K**
- Thunderstorm Wind

Trees down on Jones, Tazewell, and Maloneyville Roads.
**TENNESSEE, East**

**Anderson County**  
5 N Clinton  
30 1620EST  
0 0 5K  
Thunderstorm Wind  
Trees down on Norris Freeway and New River Highway.

**Roane County**  
Countywide  
30 1625EST  
0 0 15K  
Thunderstorm Wind  
Trees down countywide.

**Claiborne County**  
5 S Tazewell  
30 1630EST  
0 0 5K  
Thunderstorm Wind  
Several Trees down.

**Union County**  
5 S Maynardville  
30 1630EST  
0 0 5K  
Thunderstorm Wind  
Trees down in the southern part of the county.

**Knox County**  
Halls Xrds  
30 1645EST  
0 0 5K  
Thunderstorm Wind  
Trees down.

**Loudon County**  
5 N Loudon  
30 1710EST  
0 0 10K  
Thunderstorm Wind  
Trees down on Poplar Springs, Chili, and Sugarlimb Roads.

**Blount County**  
5 N Maryville  
30 1715EST  
0 0 5K  
Thunderstorm Wind  
Trees down northern half of county.

**Sevier County**  
1 W Gatlinburg  
30 1715EST  
0 0 5K  
Thunderstorm Wind  
Trees down on Wiley Oakley Drive.

**Bradley County**  
Cleveland  
30 1730EST  
0 0 20K 15K  
Thunderstorm Wind  
Trees and powerlines down at Hanna and Harrison Pike.  Trees down on a mobile home .

**Polk County**  
5 N Benton  
30 1735EST  
0 0  
Thunderstorm Wind (G60)  
Lots of Debris on Highway 411 and York roads.

**Monroe County**  
Madisonville  
30 1745EST  
0 0 5K  
Thunderstorm Wind  
Trees down

**TENNESSEE, West**

**Hardin County**  
Burnt Church  
01 1410CST
1415CST
0 0 0.01K  
Hail(0.75)

**Mcnairy County**  
Stantonville  
01 1510CST
1515CST
0 0 10K  
Thunderstorm Wind  
Some trees and power lines were knocked down.

**Chester County**  
Henderson  
02 1545CST
1550CST
0 0 0.10K  
Hail(1.00)

**Mcnairy County**  
Rose Creek  
02 1600CST
1615CST
0 0 10K  
Thunderstorm Wind  
Some shingles, power lines and tree limbs were blown down.
TENNESSEE, West

Hardeman County
Teague
02 1630CST
1635CST
0 0 5K
Thunderstorm Wind
Several trees were knocked down.

Madison County
Adair
02 1630CST
1635CST
0 0 0.01K
Hail(0.75)

Gibson County
Brazil
02 1655CST
1700CST
0 0 5K
Thunderstorm Wind
A couple of trees were blown down.

Madison County
Medon
02 1707CST
1715CST
0 0 0.05K
Hail(0.88)

Hardeman County
Silerton
02 1710CST
1715CST
0 0 5K
Thunderstorm Wind
A couple of trees were blown down.

Gibson County
Trenton
02 1720CST
1725CST
0 0 5K
Thunderstorm Wind
A few trees and power lines were blown down.

Crockett County
Alamo
02 1730CST
1735CST
0 0 5K
Thunderstorm Wind
A couple of trees were knocked down.

Lauderdale County
Halls
02 1800CST
1805CST
0 0 5K
Thunderstorm Wind
Some trees were blown down.

Lauderdale County
Halls
02 1920CST
1945CST
0 0 10K
Thunderstorm Wind
Several trees and power lines were knocked down.

Fayette County
Piperton
02 1950CST
1955CST
0 0 5K
Thunderstorm Wind
A few trees were blown down.

Shelby County
Arlington to
Eads
02 1955CST
2005CST
0 0 10K
Thunderstorm Wind
Several trees were knocked down. One tree fell on a house.

Shelby County
Memphis
10 1800CST
1805CST
0 0 10K
Thunderstorm Wind
The metal roof to a storage building was damaged in the southeast part of Memphis. A few trees were also blown down.

Fayette County
Countywide
10 1810CST
1825CST
0 0 5K
Thunderstorm Wind
Several trees were blown down.

Decatur County
Parsons
12 1230CST
1330CST
0 0 1K
Flash Flood
A few streets were flooded.
TENNESSEE, West

Hardin County
Counce

12 1235CST
1335CST

0 0 1K

Flash Flood

Some roads were covered with water.

Shelby County
Memphis

14 1525CST
1625CST

0 0 2K

Flash Flood

Several roads in East Memphis were flooded with up to two feet of water in some locations.

Madison County
Jackson

23 1230CST
1235CST

0 0 5K

Thunderstorm Wind

A few trees were blown down. One tree fell on a house.

Fayette County
Lambert

23 1315CST
1320CST

0 0 25K

Thunderstorm Wind

One mobile home was flipped over. One house had its roof blown off. Numerous trees were blown down.

Carroll County
Buena Vista

30 1145CST
1150CST

1 0 0

Lightning

One man was killed by a lightning strike while outside working at his home. M66OU

TEXAS, Central

San Saba County
Countywide

03 0000CST
0200CST

0 0 5K

Flash Flood

Law enforcement reported significant street flooding in the San Saba area. Creeks and streams also overflowed their banks along State Highway 16 north of San Saba.

Brown County
North Portion

03 0230CST
1130CST

0 0 7K

Flash Flood

Law enforcement reported several roads covered with water, mainly in the north and west sections of the county. There were some evacuations near the community of Bangs due to rising waters along Jim Ned Creek.

Coleman County
East Portion

03 0315CST
1030CST

0 0 8K

Flash Flood

Law enforcement reported several roads under water over the North and East portions of the county.

Runnels County
Central Portion

03 0400CST
0515CST

0 0

Flash Flood

Elm Creek north of Ballinger overflowed its banks for about one hour after heavy rains fell over the central portions of Runnels County.

Callahan County
South Portion

03 0500CST
1130CST

0 0 7K

Flash Flood

Law enforcement reported several roads under water over the southern portions of Callahan county.

A slow moving tropical wave started to produce heavy rains over portions of west central Texas in the early morning hours of July 3rd. The first short lived round of flooding was confined to mainly the Heartland and Northwest Hill Country. The damage from this first round of flooding was due to road washouts.

Coleman County
East Portion

04 0100CST
0500CST

0 0 4K

Flash Flood

For the second night in a row, heavy rains produced areas of flooding over the northeast portions of Coleman County.
For the second night in a row, heavy rains have fallen over the northwest portions of Brown County.

Coke County emergency management reported that Farm to Market Road 2034 was closed for a time due to high water.

A slow moving thunderstorm that moved out of Coke County down U.S. Highway 87 produced torrential rains along the highway from near Water Valley to Grape Creek. Rainfall reports of over 2 inches in 30 minutes was common in this area. Several low water crossings in northwest Tom Green county flooded as the storm moved through.

The slow moving tropical wave that dumped heavy rains for the second night in a row over the Heartland counties of Brown and Coleman counties. Some reports of up to 10 inches in the two day period were noted in these areas. During the late afternoon and early evening, scattered thunderstorms developed in the Concho Valley. One thunderstorm in particular developed over southwest Coke County. This thunderstorm was very slow moving and produced very heavy rains as it moved to the south into northern Tom Green County before dissipating. Rainfall amounts with this thunderstorm ranged from 2 to 5 inches. Farm Road 2034 in southwest Coke county had to be closed for a time due to high water, and a few low water crossings in northwest Tom Green County had water moving through them.

Heavy rains continue to fall over northeast San Saba county causing road closures over the eastern portions of the county.

Heavy rains during the early morning hours produced widespread flooding over a large part of Mason County. There were numerous road closures during the height of the flooding. The majority of the property damage received was from road washouts.

Heavy rains fell across Kimble County producing widespread flooding throughout the county. At the height of the flood several roads were closed due to high water, including Highway 377. Most of the property damage was due to road washouts.

Numerous showers and thunderstorms developed over Brown County just after midnight on the 6th. These thunderstorms remained nearly stationary through much of the night producing 12 to 14 inch rainfalls. This is in combination to the 6 to 8 inches of rain that had fallen in the days preceding the flood. The rain in Brown County fell directly into the catchments of the Jim Ned Creek, and Pecan Bayou, which empty into Lake Brownwood. Lake Brownwood crested on Sunday morning of the 7th, 7.7 feet over its spillway. Major flooding in Brownwood begins around 6 feet over the spillway. The flooded Pecan Bayou turned much of the Brownwood business district into a giant lake. Commerce Street in Brownwood was flooded with waist deep water. In Brownwood and Early, there were 54 homes with major damage, and 6 with minor damage. At Lake Brownwood there were 110 homes with major damage and 40 with minor damage.

Rains of 10 to 12 inches fell over Coleman County in the early morning hours of the 6th. This in addition to the 8 to 10 inches that had fallen over the area in the days leading up to this flood. The area along Jim Ned Creek and Lake Coleman were hit especially hard. As the Coleman County police department was performing a water rescue on Jim Need Creek near Burkett, they were quoted saying, “a wall of water is flowing down Jim Need Creek.” Several roads and fences were damaged in the county, crops ruined and livestock missing. In the Lake Coleman area, there were four homes with major damage and 2 homes with minor damage.
Portions of Callahan County received as much as 12 inches of rain in the early morning hours of the 6th. This resulted in flooding throughout the county, however the southern portion of the county took the brunt of the flooding, where one home received major damage and two others received minor damage. The damages to the county's road system was significant with $400,000 in damages to the southern portion of the county alone.

The tropical wave that had plagued south central Texas over the past several days moved to the north on the morning of the 6th. Thunderstorms moved into Taylor county around 3 AM. Rainfall rates of 2 to 3 inches per hour produced rainfall amounts of up to 12 inches in the southern portions of the county. A fire station on the south side of Abilene reported 5.2 inches of rain in less than 2 hours. The automated weather station at the Abilene airport reported 4 inches in 2 hours. This rainfall produced flooding of low water crossings and some creek flooding during the morning in Abilene. Worse flooding was yet to come however, as the heaviest rains occurred to the south of Abilene, in the Buffalo Gap, Tuscola, Ovalo and Lake Abilene areas. Water from these areas flowed in the Elm Creek, Cat Claw Creek, and Cedar Creek, then into the city of Abilene. Cat Claw Creek, and Elm Creek crested at record levels on the evening of the 6th. The flood waters did not recede significantly until the evening of the 7th. Around 1000 residents had to evacuate to higher ground. The flooding throughout the county resulted in significant property damage with 31 homes destroyed, 339 receiving major damage, and 322 received minor damage.

Heavy rains of 2 to 4 inches flooded some low water crossings over the southern portion of the county. No other damages were reported from the flooding.

Shackelford County was on the northern fringes of an area of very heavy rains. There was some significant street flooding reported in Albany for a few hours.

Jones County received very heavy rains on the morning of the 6th. These rains resulted in some flooding in the Hamlin and Anson areas. Three homes were flooded, but many county roads were washed out. A newspaper article stated that around 450 miles of road were damaged in some way by the flooding. The most severe damage was in the northwest portion of the county.

Heavy rains of 2 to 5 inches flooded several roads in the eastern portion of Fisher County on the morning of the 6th. There was no damage reported as a result of the flooding.

Lake Sweetwater received about 4 inches of rain on the morning of the 6th. This resulted in a few road closures in the northern portions of the county. A few low water crossings in Sweetwater were flooded as well. The tropical wave that has been producing heavy rains over South Central Texas peaked in intensity during the early morning hours of the 6th over the Big Country and Heartland Counties of West Central Texas. Numerous thunderstorms developed shortly after midnight across northern sections of Coleman and Brown Counties. into southern Callahan County, then spread west into the Abilene area around 3 AM. Tropical rainfall rates of 2 to 3 inches per hour produced rainfall amounts of 10 to 14 inches directly over the Jim Ned Creek and Pecos Creek basins in northern Coleman and Brown Counties, and southern sections of Callahan and Taylor Counties. The Cities of Abilene and Brownwood received significant damage as the result of the flooding that followed the heavy rains.
Thunderstorms developed over Tom Green County on the evening of the 6th. These thunderstorms dropped around 4 inches of rain in a short amount of time. Several low water crossings throughout the county became flooded. A couple and their son were swept into Live Oak Creek as they tried to navigate a flooded roadway. They were trapped for about one and half hours until help finally arrived. The couple received minor injuries as a result, and lost most of their belongings. In San Angelo many water rescues were performed as streets became flooded.

Significant street flooding was reported in Sonora.

Law enforcement reported several road closures throughout the county as a result of high water.

Some flooding of low water crossings resulted in the closing of some roads around Sweetwater.

The last gasps of the tropical wave that resulted in widespread flooding from south central Texas to the Big Country produced some flooding over the Edwards Plateau and the Big Country on the 7th.

Isolated pulse severe thunderstorms formed during the peak of afternoon heating.

Numerous roads were closed throughout San Saba county as a result of flooding.

An upper level low produced showers and thunderstorms that dumped up to 8 inches of rain in Coleman, San Saba, and Kimble Counties. This rain fell over saturated ground from heavy rains about a week prior to this event. San Saba County was hardest hit with several roads closed due to the flooding.

An upper level low produced showers and thunderstorms that dumped up to 8 inches of rain in Coleman, San Saba, and Kimble Counties. This rain fell over saturated ground from heavy rains about a week prior to this event. San Saba County was hardest hit with several roads closed due to the flooding.

High winds downed several trees and power lines around Hamlin.

High winds downed several trees near Hawley.

High winds downed several trees near Hawley.
## Storm Data and Unusual Weather Phenomena

### TEXAS, 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>
<th>Number of Persons Killed</th>
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<td>Tree blown down onto a home on HWY 75 just north of Madisonville.</td>
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### TEXAS, Central Southeast

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**July 2002**
TEXAS, Central Southeast

Hail across the northern part of the entire county.

**Wharton County**
- **Hungerford**
  - 13 2050CST 0200CST
  - Roads flooded, some impassable, in Hungerford. Water in two homes.

**Brazos County**
- **Bryan**
  - 14 0844CST 1300CST
  - Several roads impassable and creeks (Peach and Lick) overflowing in Bryan/College Station area. Bridge on Peach Creek Road washed out near HWY 6.

**Grimes County**
- **Plantersville**
  - 14 1120CST 1300CST
  - High water at FM 1774 at CR 209 near Plantersville.

**Wharton County**
- **Countywide**
  - 15 0752CST 0945CST
  - Several secondary roads across the county were closed due to flooding.

**Jackson County**
- **West Portion**
  - 16 0842CST 1000CST
  - Minor street flooding on county roads across the western portion of the county.

TEXAS, Extreme West

**El Paso County**
- 8 NNW El Paso Intl Arp 01 1710MST
  - Outflow from a severe thunderstorm gusted to 60 mph in northeast El Paso.

**El Paso County**
- 20 ENE El Paso Intl Arpt 02 1630MST 1640MST
  - Hail(1.00)

**El Paso County**
- 20 ENE El Paso Intl Arpt 02 1630MST
  - Thunderstorm Wind (G66)M

**Hudspeth County**
- 25 W Cornudas 02 1645MST
  - Thunderstorm Wind (G70)

**El Paso County**
- 20 ENE El Paso Intl Arpt 02 1650MST 1730MST
  - Flash Flood

A supercell thunderstorm moved southward into far west Texas and produced wind gusts as high as 80 mph which blew over a number of small water tanks and a mobile home. Quarter size hail also accompanied the storm, and flash flooding of two large arroyos left mud and debris on several roads in the area.

**Hudspeth County**
- 6 E Dell City 04 1800MST
  - Thunderstorm Wind (G61)

A rapidly moving line of thunderstorms produced wind gusts to 70 mph which resulted in roof damage and doors blown off a house east of Dell City.

**El Paso County**
- 10 N El Paso Intl Arpt 19 2200MST 2230MST
  - Flash Flood

The Martin Luther King Highway in extreme northeast El Paso was closed due to mud covering the road.

TEXAS, Mid - South

**Victoria County**
- (Vct)Victoria Rgnl A 16 0833CST 1130CST
  - Street Flooding reported by Law Enforcement. A foot of standing water.
### Texas, Mid - South

**Victoria County**

(Vct)Victoria Rgnl A 1120CST 1415CST

Law Enforcement report numerous street and road closure.

### Texas, North

**Bell County**

Countywide 02 1600CST 1800CST 0 0 2K Flash Flood

Numerous streets and county roads were closed due to flooding from heavy rains.

**Eastland County**

Countywide 06 1130CST 1455CST 0 0 25K 25K Flash Flood

Many county roads were washed out. Many crops were washed out or flooded from the heavy rain.

**Eastland County**

Eastland 06 1130CST 1355CST 0 0 Flash Flood

the Interstate 20 access road was flooded.

**Eastland County**

Scranton 06 1130CST 1455CST 0 0 2K Flash Flood

FM 1864 closed due to high water.

**Leon County**

Normangee 06 2342CST 0 0 Thunderstorm Wind (G52)

A tree was blown down by high winds.

**Hood County**

5 S Granbury 12 1435CST 0 0 10K Thunderstorm Wind

A church steeple was blown off and several trees were blown down 4 to 6 miles south of Granbury on Highway 144 near Indian Harbor.

**Denton County**

Denton 12 1615CST 0 0 Thunderstorm Wind (G52)

Trees were blown down by high winds.

**Ellis County**

Midlothian 12 1630CST 0 0 5K Lightning

Lightning started a fire in the attic of a house.

**Dallas County**

Garland 12 1645CST 0 0 Hail (0.75)

Occurred at the intersection of Interstate 30 and Zion Road.

**Mclennan County**

Mc Gregor 13 1437CST 0 0 Hail (0.88)

**Hamilton County**

Hamilton 13 1624CST 0 0 2K Thunderstorm Wind (G52)

Power lines were blown down by high winds.

**Ellis County**

Palmer 14 1920CST 0 0 2K Thunderstorm Wind (G52)

Power lines and large tree limbs were blown down.

**Ellis County**

Palmer 14 1929CST 0 0 Hail (0.88)

**Henderson County**

Northwest Portion 16 0950CST 1150CST 0 0 Flash Flood

Several roads were under water.
TEXAS, North

Henderson County
West Central Portion
16  1010CST
    1100CST
Two cars were swept off roads in the western part of the county.

Limestone County
Kosse
16  1025CST
    1205CST
Water over Highway 14 north of Kosse, and Highway 1246 west of Thornton flooded.

Kaufman County
South Central Portion to Countywide
16  1110CST
    1635CST
County Road 3396 flooded at a creek crossing, County Road 274 flooded between Highway 148 and the county line. County Road 4043 was also flooded, and some homes were flooded.

Ellis County
Ovilla
17  1645CST
Lightning struck two houses, starting fires in both homes.

Fannin County
Honey Grove
24  1315CST
Power lines were blown down by high winds.

Fannin County
Lamasco
24  1315CST
A carport was damaged by high winds.

Tarrant County
Ft Worth
30  1655CST
A tree and some signs were blown down by high winds.

TEXAS, North Panhandle

Potter County
Amarillo
03  0056CST
Hail(0.75)

Potter County
Amarillo
03  0058CST
Hail(1.00)

Randall County
6 S Amarillo
03  0103CST
Hail(0.88)

Randall County
6 SW Amarillo
03  0110CST
Hail(0.88)

Randall County
2 SW Amarillo
03  0110CST
Hail(0.75)

Severe thunderstorms developed during the late night and early morning hours over the south central Texas panhandle producing large hail.

Oldham County
Vega to 4 E Vega
06  0300CST
0530CST
45K
Flash Flood
Numerous cars were stranded in high water in the town of Vega. Thunderstorms with very heavy rainfall produced flooding in the extreme western Texas panhandle where around four and a half inches of rain fell. Wreckers were busy pulling stranded cars out of the high water and water was up to and in a mobile home's back door.

Potter County
1 E Amarillo
22  1525CST
Hail(0.88)

Potter County
Amarillo
22  1558CST
30K
Flash Flood

326
TEXAS, North Panhandle

Underpasses in the city of Amarillo were flooded and motorists were stranded. One forty-nine year old adult male was killed during a rescue attempt after the motorist attempted to drive through a flooded underpass. Water continued to rise rapidly to a height of approximately fourteen feet. The victim could not swim. M49VE

Roberts County

12 W Miami

22 1630CST 0 0 65K Thunderstorm Wind (G61)
Power poles were reported blown down and damage occurred to an irrigation system near the Farm to Market Road 2391 and 282 junction.
A line of thunderstorms containing very heavy rainfall moved up from the south across the south central Texas panhandle during the early evening hours. The very heavy rains produced major flooding which resulted in the death of a man. Severe thunderstorms containing damaging winds raked across the eastern Texas panhandle a short time later in the evening.

Randall County

15 ESE Canyon

23 1600CST 0 0 Hail(0.88)
An isolated severe thunderstorm with hail developed over the Palo Duro Canyon State Park during the early evening hours.

Hutchinson County

17 N Stinnett

27 1905CST 0 0 15K Thunderstorm Wind (G52)
A shed and trees were reported blown down.

Fritch

27 1915CST 0 0 10K Thunderstorm Wind (G56)
Powerlines were reported down in the town of Fritch.

Hutchinson County

18 N Stinnett

27 1923CST 0 0 15K Thunderstorm Wind (G52)
Powerlines were reported down.

Hutchinson County

16 N Stinnett

27 1930CST 0 0 Flash Flood
Fifteen inches of water was reported over the roadway at the intersection of Highways 207 and 281. No cars were stranded and no injuries were reported.

Hutchinson County

Borger

27 1945CST 0 0 800K Thunderstorm Wind (G80)
Numerous trees and powerlines were reported down in the city of Borger. Major structural damage reported to buildings. No injuries were reported.

Hutchinson County

7 NE Borger

27 2010CST 0 0 Thunderstorm Wind (G52)

Hutchinson County

5 E Borger

27 2015CST 0 0 Flash Flood
Water was reported covering the road on Highway 152 five miles east of Borger. No cars were reported stranded and no injuries were reported.

Carson County

1 S Conway

27 2045CST 0 0 Thunderstorm Wind (G52)

Armstrong County

Claude

27 2100CST 0 0 20K Thunderstorm Wind (G52)
Damage was reported to the roofs of two barns.
Severe thunderstorms containing flooding rainfall and damaging winds developed during the evening hours across the central and southern Texas panhandle. A microburst hit the city of Borger shortly before sunset causing extensive damage but no injuries.

Sherman County

Stratford

28 1745CST 0 0 Hail(0.88)

Sherman County

2 S Stratford

28 1804CST 0 0 Hail(1.00)

Sherman County

Stratford

28 1824CST 0 0 Thunderstorm Wind (G52)
Numerous tree limbs were reported down.

Sherman County

20 SE Stratford

28 1828CST 0 0 Thunderstorm Wind (G56)
### Storm Data and Unusual Weather Phenomena

#### July 2002

#### TEXAS, North Panhandle

**Sherman County**
- **14 SE Stratford**
  - **Time:** 28 1833CST
  - **Path Length:** 0
  - **Width:** 0
  - **Number of:** 0
  - **Persons:** 0
  - **Injured:** 0
  - **Property Damage:** Hail(1.00)
  - **Crops:**
  - **Character of Storm:** Severe thunderstorms developed during the early evening hours over the northern Texas panhandle producing large hail and high winds.

#### TEXAS, Northeast

**Angelina County**
- **Lufkin**
  - **Time:** 07 1920CST
  - **Path Length:** 0
  - **Width:** 0
  - **Number of:** 0
  - **Persons:** 0
  - **Injured:** 0
  - **Property Damage:** Thunderstorm Wind (G68)
  - **Crops:**
  - **Character of Storm:** Numerous trees down across the city.

**TXZ136**
- **Smith**
  - **Time:** 11 1600CST
  - **Path Length:** 1
  - **Width:** 0
  - **Number of:** 1
  - **Persons:** 0
  - **Injured:** 0
  - **Property Damage:** Excessive Heat
  - **Crops:**
  - **Character of Storm:** Man died from heat stroke while working on his vehicle outside his home. He was found by his neighbor. M35OU

**Nacogdoches County**
- **4 S Woden**
  - **Time:** 12 1455CST
  - **Path Length:** 0
  - **Width:** 0
  - **Number of:** 0
  - **Persons:** 0
  - **Injured:** 0
  - **Property Damage:** Thunderstorm Wind (G52)
  - **Crops:**
  - **Character of Storm:** Several large trees down.

**Nacogdoches County**
- **5 E Nacogdoches**
  - **Time:** 12 1500CST
  - **Path Length:** 0
  - **Width:** 0
  - **Number of:** 0
  - **Persons:** 0
  - **Injured:** 80K
  - **Property Damage:** Thunderstorm Wind (G62)
  - **Crops:**
  - **Character of Storm:** Roof was ripped off a barn.

**Panola County**
- **5 NW Carthage**
  - **Time:** 12 1512CST
  - **Path Length:** 0
  - **Width:** 0
  - **Number of:** 0
  - **Persons:** 0
  - **Injured:** 0
  - **Property Damage:** Hail(0.75)
  - **Crops:**
  - **Character of Storm:**

**Sabine County**
- **9 N Hemphill**
  - **Time:** 12 1545CST
  - **Path Length:** 0
  - **Width:** 0
  - **Number of:** 0
  - **Persons:** 0
  - **Injured:** 0
  - **Property Damage:** Thunderstorm Wind (G52)
  - **Crops:**
  - **Character of Storm:** Several trees down across Hwy 21.

**Sabine County**
- **4 N Pineland**
  - **Time:** 12 1545CST
  - **Path Length:** 0
  - **Width:** 0
  - **Number of:** 0
  - **Persons:** 0
  - **Injured:** 0
  - **Property Damage:** Thunderstorm Wind (G52)
  - **Crops:**
  - **Character of Storm:** Large trees down across Hwy 1.

**Shelby County**
- **Shelbyville**
  - **Time:** 13 1430CST
  - **Path Length:** 0
  - **Width:** 0
  - **Number of:** 0
  - **Persons:** 0
  - **Injured:** 0
  - **Property Damage:** Thunderstorm Wind (G58)
  - **Crops:**
  - **Character of Storm:** Numerous trees down on FM 2427, FM 2261, and Hwy 417 east.

**Harrison County**
- **3 N Marshall**
  - **Time:** 24 1450CST
  - **Path Length:** 0
  - **Width:** 0
  - **Number of:** 0
  - **Persons:** 0
  - **Injured:** 0
  - **Property Damage:** Thunderstorm Wind (G55)M
  - **Crops:**
  - **Character of Storm:** Several large trees and power lines blown down.

**Nacogdoches County**
- **Nacogdoches**
  - **Time:** 25 1357CST
  - **Path Length:** 0
  - **Width:** 0
  - **Number of:** 0
  - **Persons:** 0
  - **Injured:** 0
  - **Property Damage:** Hail(1.00)
  - **Crops:**
  - **Character of Storm:**

**Nacogdoches County**
- **Nacogdoches**
  - **Time:** 25 1400CST
  - **Path Length:** 0
  - **Width:** 0
  - **Number of:** 0
  - **Persons:** 0
  - **Injured:** 22K
  - **Property Damage:** Thunderstorm Wind (G56)
  - **Crops:**
  - **Character of Storm:** Numerous trees blown down. A metal awning was blown off a gas station.

**Nacogdoches County**
- **5 SW Nacogdoches**
  - **Time:** 25 1410CST
  - **Path Length:** 0
  - **Width:** 0
  - **Number of:** 0
  - **Persons:** 0
  - **Injured:** 0
  - **Property Damage:** Thunderstorm Wind (G57)M
  - **Crops:**
  - **Character of Storm:** Several large trees blown over.

#### TEXAS, South

**TXZ248>255**
- **Zapata - Jim Hogg - Brooks - Kenedy - Starr - Hidalgo - Willacy - Cameron**
  - **Time:** 01 0000CST
  - **Path Length:** 0
  - **Width:** 0
  - **Number of:** 0
  - **Persons:** 0
  - **Injured:** 0
  - **Property Damage:** Drought
  - **Crops:**
  - **Character of Storm:** Severe drought conditions persisted across Deep South Texas during the period.

**Jim Hogg County**
- **Hebbronville**
  - **Time:** 15 1450CST
  - **Path Length:** 0
  - **Width:** 0
  - **Number of:** 0
  - **Persons:** 0
  - **Injured:** 0
  - **Property Damage:** Flash Flood
  - **Crops:**
  - **Character of Storm:** Intense thunderstorms produced up to 4 inches of rain in an hour and flash flooding in Hebbronville.
TEXAS, South

**Starr County**
- La Gloria
  - 15 1755CST 2000CST 0 0 Flash Flood
  - Law enforcement officials reported flash flooding over Highway 755 in La Gloria.

**Jim Hogg County**
- 4 W Hebbronville
  - 16 0400CST 0645CST 0 0 Flash Flood
  - Flash flooding of Highway 1017 west of Hebbronville was reported by the Hebbronville Fire Department.

**Zapata County**
- Escobas
  - 16 0530CST 0830CST 0 0 Flash Flood
  - Law enforcement officials reported flash flooding over Highway 16 near Escobas.

**TXZ248 Zapata**
- 16 0800CST 1200CST 0 0 Flood
  - Flooding of the Arroyo Veleno was reported 10 miles north of the City of Zapata along Highway 16.

TEXAS, South Central

**TXZ191 Hays**
- 01 0000CST 1305CST 0 0 Flood
  - Heavy rainfall for the last two days of June causing a rise on the San Marcos River. The San Marcos River crested at Luling at 33.73 feet on July 5 at 1830CST. 20.0 feet is flood stage.

**Gillespie County**
- Southeast Portion
  - 01 0230CST 1700CST 0 0 Flash Flood
  - General 3 to 4 inch totals fell across the county, with isolated amounts of up to 7 inches in the eastern part of the county. Flash flooding at this time affected low water crossings. Damage was limited to rural roads.

**Bexar County**
- Countywide
  - 01 0400CST 1300CST 0 0 Flash Flood
  - General 3 to 4 inch totals were reported over Bexar County, with isolated amounts of up to 5 inches across the northern part of the county. Flash flooding was reported across most low water crossings in the county.

**Guadalupe County**
- West Portion
  - 01 0630CST 0800CST 0 0 Flash Flood
  - General 2 to 3 inch totals were reported with isolated totals to 5 inches in the western part of the county. Low water crossings filled quickly with minor damage reported.

**Atascosa County**
- Countywide
  - 01 0715CST 1230CST 0 0 Flash Flood
  - General 3 to 4 inch totals were indicated with isolated amounts of 5 inches in the north central part of the county. Little or no damage was indicated.

**Frio County**
- Southwest Portion
  - 01 0815CST 1230CST 0 0 Flash Flood
  - General 3 to 4 inch totals fell across the county. The greatest amounts were in the southwest part of the county, where 7 inch totals were recorded. Low water crossings were filled very quickly and damage was reported to some roads.

**Zavala County**
- Southeast Portion
  - 01 1130CST 1300CST 0 0 Flash Flood
  - General 2 to 3 inch totals fell across the county with isolated totals of up to 5 inches in the southeast part of the county. Flash flooding was reported over low water crossings with minor damage to roads.

**Dimmit County**
- Northeast Portion
  - 01 1145CST 1300CST 0 0 Flash Flood

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TEXAS, South Central

General 3 in amounts fell over the northern half of the county, with up to 5 inches in the extreme northeast along the Zavala and LaSalle County borders.

Heavy rainfall began falling before midnight on the first from Bandera County across Bexar County and into Wilson County. Additional showers and thunderstorms formed between Carrizo Springs, Crystal City, Pearsall and Cotulla. With soils already soaked from the heavy rainfall of June 29 and 30, flash flooding developed very early in the morning and continued past noon for most counties.

The Medina River crested at Elmendorf at 63.16 feet on July 6 at 0000CST, where flood stage is 35.0 feet.

General 3 to 4 inch totals were reported countywide during this additional rain period, with the heaviest rain of up to 6 inches in the south part of the county. All low water crossings in the county were now flooded with flash flooding on most small creeks and streams as well.

Additional showers and thunderstorms continued to develop through the afternoon and into the evening of July 1 over the Kendall-Bexar-Comal County area. An additional rainfall of up to 10 inches fell during this period, with the rain continuing through the morning of July 2 over Comal County. This, added to the previous amounts, and in view of soils that were long since saturated, produced widespread flash flooding across the three counties. Damage was now becoming widespread to roads and bridges.

Leon Creek crested at IH-35 near San Antonio at 27.23 feet on July 2 at 1800CST, where flood stage is 15.0 feet.

General 3 to 4 inch totals fell across Bexar County with isolated totals of up to 6 inches in the north central part of the city of San Antonio. Flash flooding developed very quickly and was countywide in its coverage. Small streams and creeks were also flash flooding. Officials reported more than 230 high water rescues in San Antonio from the night of July 1 through noon on July 2. Damage was reported to numerous roads and bridges across the county. An elderly couple apparently attempted to drive home from a restaurant during the severe flash flooding late Monday evening, despite the pleas of the restaurant patrons. Their bodies were recovered near 0930CST on July 4 in their submerged automobile in Olmos Creek. A young man and his friend were playing near swollen Apache Creek when both were swept into the creek on the afternoon of July 1. The two were rescued and the friend recovered quickly, but the first young man slipped into a coma. He died on July 5 after being removed from life support. The body of a fourth victim was found in a drainage pipe by a city public work crew while cleaning debris on the afternoon of July 2. He had apparently drowned during the evening of July 1 and the body had been swept into the pipe. M70VE, F59VE, M111W, M32OU

Comal County

General 3 to 4 inch totals fell across the county with isolated amounts of up to 10 inches in the western part of the county. Flash flooding was reported countywide from the late afternoon of July 1 through the remainder of the night and into the next morning. Widespread damage was indicated to roads and bridges.

Additional showers and thunderstorms continued to develop through the afternoon and into the evening of July 1 over the Kendall-Bexar-Comal County area. An additional rainfall of up to 10 inches fell during this period, with the rain continuing through the morning of July 2 over Comal County. This, added to the previous amounts, and in view of soils that were long since saturated, produced widespread flash flooding across the three counties. Damage was now becoming widespread to roads and bridges across the three counties.

Hays County

General 2 inch totals across the county with isolated amounts of up to 5 inches fell in the south part of the county. Flash flooding developed slowly due to less saturated soils than the counties to the south. No significant damage was reported at this time.

Travis County

General 1 to 2 inch totals fell in Travis County with isolated amounts of up to 4 inches from Camp Mabry through the western part of the county. Flash flooding developed slowly in the more flood-prone western part of the county and continued just past midnight. No significant damage was reported in this part of the flooding.

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<td>Flash Flood</td>
<td>Flash Flood</td>
<td>West Portion</td>
</tr>
</tbody>
</table>

330
TEXAS, South Central

Kendall County
Countywide

An additional 3 to 4 inches of rain fell during the late night hours over Kendall County, with isolated totals of up to 7 inches in the extreme southwest. By now, flash flooding was taking place countywide, with severe flooding over the south and west portions. Damage to roads and bridges continued.

Bandera County
Countywide

General 4 to 6 inch totals fell across the county, with isolated amounts of up to 12 inches in the eastern half. The Medina River, already in flood since noon on the previous day, continue to build, and flash flooding was reported across all of the county. Damages to roads and bridges continued to be reported. All low water crossings were closed and travel was very hazardous.

Medina County
Countywide

General 3 to 4 inch totals were reported in the northern part of the county, with isolated totals of up to 5 inches. Flash flooding began shortly after midnight and continued through most of the day. By mid-afternoon, low water crossings in the county were flooded and road closures were widespread. Water was reported going over the spillway at Medina Dam by the afternoon of July 2.

Uvalde County
North Portion

General 3 to 4 inch totals began falling just before midnight over the northern part of Uvalde County, with isolated totals of up to 6 inches. Flash flooding was reported between Concan and Utopia as well as in the Garner Park area. Campers in Concan were stranded and unable to leave the area. Portions of Utopia were evacuated.

Kerr County
East Portion

General 2 to 3 inch totals were indicated over Kerr County with isolated totals of up to 7 inches in the eastern half of the county. Flash flooding developed in the early morning hours and continued into the afternoon. Stranded Kerrville residents had to be rescued from their rooftops by boat. All low water crossings were flooding over eastern Kerr County. Numerous roads were closed with widespread damage reported.

Blanco County
South Portion

General 2 inch rains fell over Blanco County. Heavier totals to 4 inches in the south part of the county produced flash flooding from just before sunrise to the mid-morning period. By this time, more than 15 inches of rain has fallen over many parts of Blanco County. Flash flooding is widespread and damage has been indicated to numerous roads and bridges across the county.

Burnet County
South Portion

General 2 inch rainfall was reported over the county, with isolated totals to 4 inches in the south part of the county. Flash flooding developed in the south part of the county before sunrise and continued until noon. Damage to roads was reported to be minimal at this time.

During the late night hours of July 1, showers and thunderstorms formed between San Marcos and Austin, as well as between Uvalde, Kerrville and Blanco. Moving slowly northward, they produced heavy rainfall and flash flooding across the Hill Country and the Austin area. No additional deaths resulted from this flooding, but damages were widespread to roads and bridges.

TXZ205
Bexar

The Medina River crested at San Antonio near US281 (South) at 55.65 feet on July 4 at 1515CST, where flood stage is 20.0 feet. The Medina River crested at Somerset at 41.84 feet on July 6 at 1200CST. Flood stage is 18.0 feet.

TXZ189
Kendall

The Guadalupe River crested at Comfort at 31.33 feet on July 4 at 0930CST, where flood stage is 21.0 feet.
TEXAS, South Central

Wilson County
Countywide

- 02 0315CST 1730CST
- General 3 to 4 inch totals were reported across the county with isolated amounts of up to 7 inches over the western part of the county. Flash flooding was occurring over all low water crossings. Creeks and small streams were also reported flooding.

De Witt County
Countywide

- 02 0400CST 1700CST
- General 2 to 3 inch totals fell over DeWitt County. Isolated totals of up to 5 inches were indicated between Cuero and Westhoff. Damage to roads was not indicated.

Karnes County
Countywide

- 02 0400CST 1700CST
- General 3 to 4 inch totals fell across the county. Flash flooding developed in the early morning hours and continued until afternoon. Damage was still reported to be spotty to roads in the county.

Lavaca County
Countywide

- 02 0400CST 1300CST
- General 3 to 4 inch totals were reported over Lavaca County, with most low water crossings flooded. No significant damage was reported at this time.

Gonzales County
Southwest Portion

- 02 0430CST 1700CST
- General 1 to 2 inch rains fell across the county, with isolated amounts totals of 4-5 inches in the southwest part. This produced flash flooding over several low water crossings from the early morning hours until the late afternoon. Damage was reported to be spotty over county roads.

Guadalupe County
Countywide

- 02 0430CST 1800CST
- General 3 inch totals fell over the county with isolated amounts of up to 7 inches in the western part of the county. Flash flooding redeveloped in the early morning hours over soils that had been soaked by the previous day's rainfall. The flash flooding continued into the late afternoon but produced little damage. Scattered showers and thunderstorms redeveloped over Wilson, Karnes, DeWitt and Lavaca Counties and began spreading slowly northward over already saturated soils. The general 2 to 4 inch rainfalls had up to 7 inch totals embedded within them. Again, no lives were lost in this part of the flooding, but damage to roads and bridges continued.

Caldwell County
West Portion

- 02 0545CST 1300CST
- General 3 to 4 inch rainfall was indicated over the western part of Caldwell County. Flash flooding was reported, but little damage was indicated to roads at this time.

Hays County
Countywide

- 02 0545CST 1900CST
- General 3 to 4 inch rains fell over the county, with isolated totals of up to 6 inches in the west. Flash flooding redeveloped very quickly. More than 70 roads were reported to be closed. Damage was widespread to rural roads, mainly in the western part of the county.

Llano County
Countywide

- 02 0630CST 1800CST
- General 3 to 4 inch totals over the county brought the flash flooding of low water crossings over the county from near sunrise into the late afternoon. Damage was generally to roads in the county, and was reported to be very spotty.

Fayette County
South Portion

- 02 0700CST 1700CST
- Flash Flood
TENNESSEE, South Central

General 2 inch totals fell over the county with isolated amounts of up to 5 inches in the south part of the county. Flash flooding was reported between Muldoon, Flatonia and Schulenburg from through much of the morning and afternoon. Scattered damage was reported to roads in the south part of the county.

Bastrop County
South Portion
02 0730CST 1500CST 0 0 Flash Flood

General 2 to 3 inch totals fell across the county. Flash flooding was spotty over the county from the morning into the mid afternoon.

Travis County
Countywide
02 0730CST 1800CST 0 0 Flash Flood

General 3 to 4 inch rainfall over the county was indicated, with isolated totals of up to 7 inches. Flash flooding redeveloped very quickly in the morning and continued into the afternoon. A sinkhole was reported at Burnet Road and Koenig Lane. Walnut Creek flooded out mobile homes in East Austin. Widespread damage has been reported to roads and bridges.

Bexar County
Countywide
02 1000CST 1400CST 0 0 Flash Flood

Additional 3 to 4 inch totals fell across the county, with as much as 9 inches in some locations. Flash flooding developed immediately and continued through the remainder of the day, into the evening, and finally ended in the early morning hours of July 3. More than 100 freeways or streets were closed. Flooding closed Interstate 10 just north of San Antonio. Public safety officers in boats, high-water vehicles and helicopters staged rescues across San Antonio. Damage by now was widespread to roads and bridges across Bexar County, with numerous evacuations and considerable damage to homes.

Williamson County
Countywide
02 1000CST 1400CST 0 0 Flash Flood

General 2 to 3 inch totals over the county, with isolated amount of up to 4 inches, was sufficient to begin flash flooding in the mid morning and continue into the mid afternoon. More than 30 roads were reported flooded. Damage is reported to roads and bridges.

Additional heavy rainfall developing over Gillespie and Llano Counties, as well as between Fayette and Travis Counties, caused low water crossings to fill quickly and redeveloped flash flooding across the area. The showers and thunderstorms spread westward through mid morning.

TXZ187 Bandera
02 0700CST 1500CST 0 0 Flood
05 1502CST

The Medina River crested at Bandera at 36.13 feet on July 4 at 1100CST, where flood stage is 13.0 feet.

TXZ188 Gillespie
02 0730CST 0300CST 0 0 Flood
06 0730CST 0300CST

The Pedernales River crested at 25.8 feet at Johnson City on July 4 at 1000CST, where flood stage is 22.0 feet.

TXZ203 Uvalde
02 0849CST 0940CST 0 0 Flood
06 0849CST 0940CST

The Frio River crested at Concan at 31.23 feet on July 2 at 0930CST, where 11.0 is flood stage. It crested again at Concan at 20.14 feet on July 5 at 1130CST.

TXZ190 Blanco
02 1009CST 1626CST 0 0 Flood
05 1009CST 1626CST

The Blanco River crested at Wimberly at 25.71 feet on July 5 at 0830CST. Flood stage is 13.0 feet.

TXZ205 Bexar
02 1319CST 1904CST 0 0 Flood
06 1319CST 1904CST

Cibolo Creek crested at Selma at 22.31 feet on July 2 at 1500CST, where flood stage is 17.0 feet.

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TEXAS, South Central

**TXZ222 Karnes**

**Cibolo Creek** crested at Falls City at 30.13 feet on July 4 at 0815 CST, where 17.0 feet is flood stage.

**TXZ192 Travis**

**Barton Creek** crested at Loop 360 in Austin at 17.9 feet on July 2 at 1810 CST, where flood stage is 11.0 feet. An off-duty Austin firefighter drowned in flooded Barton Creek as he was kayaking near Loop 360.

**TXZ192 Travis**

**Onion Creek** crested at Highway 183 near Austin, at 23.8 feet on July 2 at 2100 CST, where flood stage is 17.0 feet.

**Lee County West Portion**

General 2 to 3 inch totals over Lee County with isolated amounts to 4 inches in the western part of the county caused low water crossings to flood briefly. No damages were indicated.

**TXZ203 Uvalde**

**The Sabinal River** crested at Sabinal at 38.28 feet on July 5 at 1345 CST, where flood stage is 12.0 feet. The body of a man was recovered late on the afternoon of July 2. He had been trying to remove objects from the flood waters of the Sabinal River with his tractor when he was swept off the tractor and drowned.

**TXZ223 Gonzales**

**The Guadalupe River** crested at Gonzales at 42.24 feet on July 7 at 0015 CST, where flood stage is 31.0 feet.

**Frio County Northwest Portion**

General 2 to 3 inch rains fell over the northwestern part of the county. Over the saturated soils, brief flash flooding developed once again in the late evening.

**Dimmit County Northeast Portion**

Heavy rain redeveloped in the evening over Dimmit and Zavala Counties and continued into the early morning hours. General 4 to 6 inch totals fell over the two counties with isolated totals of up to 9 inches in eastern Zavala County and up to 12 inches in the northeastern part of Dimmit County. Widespread flash flooding developed over the adjacent areas of the two counties and continued through the remainder of the night and the next morning, ending near noon the following day. Considerable damage was indicated to roads and bridges over the two counties.

**Zavala County East Portion**

Heavy rain redeveloped in the evening over Dimmit and Zavala Counties and continued into the early morning hours. General 4 to 6 inch totals fell over the two counties with isolated totals of up to 9 inches in eastern Zavala County and up to 12 inches in the northeastern part of Dimmit County. Widespread flash flooding developed over the adjacent areas of the two counties and continued through the remainder of the night and the next morning, ending near noon the following day. Considerable damage was indicated to roads and bridges over the two counties.
TEXAS, South Central

Bandera County
Countywide

<table>
<thead>
<tr>
<th>Time</th>
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<th>Injur</th>
<th>Damag</th>
<th>Property</th>
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</table>

Scattered thunderstorms just before midnight over Bandera County produced general 4-6 inch totals countywide, with isolated amounts of up to 10 inches. With soils completely saturated, immediate flash flooding redeveloped across the county and continued until noon. Widespread damage to roads and bridges was reported. Homes were also flooded and evacuations were carried out.

Frio County
Countywide

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<th>Time</th>
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Additional 2 inch rain totals over the county with isolated amounts of up to 4 inches in the western part of the county caused flash flooding to redevelop and continue through the early morning hours.

Atascosa County
South Portion

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<th>Time</th>
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General 3 to 4 inch rainfall over the southern part of Atascosa County caused flash flooding for the early morning hours.

Blanco County
Countywide

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<th>Time</th>
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Additional 1 to 2 inch totals countywide with isolated amounts of up to 4 inches produced brief flash flooding in the early morning hours over the county.

Comal County
Countywide

<table>
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<tr>
<th>Time</th>
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General 4 to 6 inch totals with isolated amounts of up to 8 inches caused a very rapid resumption of flash flooding across the entire county. Considerable damage was indicated to county roads and bridges. Road closures were widespread through the early morning.

Kerr County
East Portion

<table>
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<th>Time</th>
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General 4 to 6 inch totals with isolated amounts of up to 8 inches over the east part of the county caused devastating flash flooding. More than 100 homes suffered flood damage in Kerrville. Some were knocked off their slabs and carried downstream by floodwaters. Most roads in the eastern part of Kerr County were closed due to flooding in the early morning, with many closed for the remainder of the day due to damage.

Real County
South Portion

<table>
<thead>
<tr>
<th>Time</th>
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<th>Damag</th>
<th>Property</th>
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<td>Flood</td>
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General 3 to 4 inch totals with isolated totals of 7 inches over the southern part of Real County caused very dangerous flash flooding over this flood-prone area. Campers were stranded in their camps along the Frio River from southern Real County into northern Uvalde County and were unable to escape until that afternoon. Widespread damage was reported to roads and bridges over the south half of the county.

Medina County
Countywide

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<th>Time</th>
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<th>Property</th>
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General 3 inch rain totals fell countywide, with as much as 7 inches in some locations. Flash flooding continued to be a problem through the early morning hours.

Kendall County
Countywide

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335
TEXAS, South Central

General 5 to 7 inch totals over the county, with isolated amounts as high as 12 inches, caused widespread flash flooding through the mid morning period over Kendall County. Damage was becoming widespread to roads and bridges and travel was very hazardous.

Uvalde County
Countywide 03 0400CST 1500CST 0 0 Flash Flood
General 4 to 6 inch totals fell in Uvalde County, causing widespread flash flooding. In addition, totals of up to 10 inches over the northern part of the county caused devastating flooding and trapped scores of campers and vacationers along the Frio River, who could not be rescued until afternoon.

Gillespie County
South Portion 03 0430CST 0900CST 0 0 Flash Flood
Additional rainfall of 2 to 3 inches over the south part of the county, with isolated amount of 5 inches, caused widespread, dangerous flash flooding to redevelop. Roads and bridge sustained damage, with numerous closures due to flooding through the mid morning and due to damage through the remainder of the day.

Hays County
West Portion 03 0500CST 0900CST 0 0 Flash Flood
The western part of Hays County received between 3 and 4 inches of rain, with some locations getting up to 5 inches. Flash flooding developed very quickly across this part of the county in the early morning hours and continued until mid morning.

Travis County
Countywide 03 0600CST 0900CST 0 0 Flash Flood
General 2 to 3 inch rain totals over the county, with isolated amounts of up to 4 inches in the south and west parts of the county, caused flash flooding over the entire area. The flash flooding continued from around sunrise to the mid morning. By the following day, flow into Lake Travis will bring it to its full elevation of 681 feet above Mean Sea Level.

Burnet County
Countywide 03 0800CST 1200CST 0 0 Flash Flood
General 2 to 3 inch totals over Burnet County, along with isolated amounts of up to 4 inches, redeveloped flash flooding through the morning hours. Several county roads were closed due to flooding, with considerable damage reported.

TXZ205
Bexar 03 0824CST 0932CST 0 0 Flash Flood
The Guadalupe River crested at Spring Branch at 43.75 feet on July 3 at 1115CST, where flood stage is 30.0 feet.

Williamson County
Countywide 03 0830CST 1230CST 0 0 Flash Flood
General 2 to 3 inch rains over Williamson County in the early morning hours caused flash flooding to redevelop. Isolated rain totals of up to 4 inches were received across the county and the flooding continued until just past noon.

Heavy rain developed again just before midnight of July 3 over much of South Central Texas along and west of the I-35 corridor. The repeated heavy rainfall produced general 3 to 4 inch rains over most of the counties from the Hill Country southward to US90. Flash flooding began in the early morning hours and continued generally until the late morning. Most low water crossings in the multi-county area were reported to be flooded and road closures were widespread.

TXZ228
Dimmit 03 0543CST 0625CST 0 0 Flood
The Nueces River crested at Asherton at 30.21 feet on July 4 at 1515CST, where 20.0 feet is flood stage.

Bandera County
Countywide 03 1300CST 1700CST 0 0 Flash Flood
General 2 to 3 inch totals were reported over the county, with isolated to 4 inches. The town of Bandera was reporting flooding, with widespread flooding and flash flooding in the area around the town. Vacationers were stranded in numerous locations around the county.

Medina County

Countywide 03 1330CST 1630CST 0 0 Flash Flood

An additional 2 to 3 inch totals fell, redeveloping the flash flooding over much of the county for a brief time.

Kendall County

Countywide 03 1400CST 1600CST 0 0 Flash Flood

An additional 2 inches of rain fell over Kendall County, with isolated totals to 4 inches in the northern part. This caused a brief resumption of flash flooding in the mid afternoon period.

Kerr County

Countywide 03 1400CST 1600CST 0 0 Flash Flood

An additional 2 to 3 inches fell over Kerr County, with isolated totals of up to 8 inches in the eastern part of the county. Flash flooding developed almost immediately over low water crossings and rural roads. Damage to roads and bridges increased, especially over the eastern part of the county.

Real County

Southeast Portion 03 1430CST 1630CST 0 0 Flash Flood

Brief flash flooding resulted from general rainfall of 1-2 inches, with up to 5 inches in the southeast part of the county. Numerous roads were closed and additional evacuations were required in camps and vacation spots along the Frio River.

Frio County

Countywide 03 1500CST 1800CST 0 0 Flash Flood

General 1 to 2 inch rainfall fell across the county, with up to 5 inches both east and west of Pearsall. Brief flash flooding was reported over SH85 and FM117. No significant addition damage was indicated.

Comal County

West Portion 03 1630CST 0200CST 0 0 Flash Flood

Only around 1 inch of rain fell over the western part of Comal County, but with streams and creeks already at or above flood stage, additional flash flooding developed over most low water crossings. More damage was reported to area roads and a bridge was washed away on FM306.

Bexar County

Countywide 03 1830CST 0000CST 0 0 Flash Flood

An additional 2 inches of rain fell over Bexar County, with amounts as high as 5 inches in the extreme western part of the county. County streams and creeks had remained at or above flood stage as the result of rainfall on July 2, so additional flash flooding over most county low water crossings and low roads was reported, continuing through the evening. Damage was generally confined to roads and bridges.

Atascosa County

North Portion 03 1900CST 2200CST 0 0 Flash Flood

An additional 2 to 3 inches of rain, with totals of up to 9 inches, fell across the northern part of Atascosa County, with flash flooding continuing into the late evening.

Kendall County

Countywide 03 2000CST 1500CST 1 0 Flash Flood

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<th>Injured</th>
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</table>
TEXAS, South Central

Nearly all of Kendall County received an additional 3 to 4 inches of rain on July 3. Amounts of up to 10 inches were reported in the northwest part of the county. Streams and creeks that had remained in flood through the day continued to build, with roads closed across the county. The flash flooding continued through the early morning hours, finally ending near noon on July 4. A young man was drowned after the car that he and a companion were riding in was washed into swollen Menger Creek, just south of the town of Boerne on the afternoon of July 4. They were returning to San Antonio when they turned a corner and saw water from Menger Creek moving rapidly over the road. Both were able to get out of the car, but only the companion survived.

Through the morning of July 3, showers and thunderstorms concentrated in bands from Kerrville to Uvalde to Crystal City. The storms produced general rainfall totals of 2 to 3 inches, with amounts of up to 10 inches in the area from Helotes to Medina and Kerrville.

The Medina River crested at Falls City at 38.43 feet on July 6 at 0747CST, where flood stage is 12.0 feet.

The Frio River crested at Derby at 19.87 feet on July 7 at 0630CST, where flood stage is 6.0 feet.

The Guadalupe River crested at Cuero at 36.97 feet on July 9 at 0100CST, where flood stage is 20.0 feet.

Rainfall of 1 to 2 inches, with isolated totals to 4 inches in the western part of the county, brought back the flash flooding. Most roads were closed over western Blanco through the late night and early morning hours.

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Additional heavy rain fell over almost all of Gillespie County, with amounts generally 3 to 4 inches and with as much as 8 inches between Willow City, Fredericksburg, Stonewall and Luckenbach. Flash flooding was occurring across the county through the late night and into the mid morning.

Heavy rain in Medina County was generally confined to the northwest part of the county as well as along the Medina-Bexar County line. Totals in these two areas were generally 2 to 3 inches, with up to 5 inches in isolated locations. Flash flooding continued through the morning hours.

General 1 to 2 inch rains fell over Uvalde County during the evening, with totals of up to 6 inches in the southwest corner of the county, as well as near Utopia. The resultant flash flooding closed most rural county roads, as well as most roads in the north and southwest parts of the county. The flash flooding ended just after midnight.

Through the early morning hours, two more inches or rain fell over Kerr County. Isolated totals of up to 5 inches were reported in the eastern part of the county. Flash flooding redeveloped immediately and continued until just past noon.

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**TEXAS, South Central**

**Burnet County**

*Countywide*

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An additional two inches of rain fell along the Burnet-Llano County line, with isolated totals near 4 inches between Marble Falls and Burnet. Flash flooding redeveloped quickly and continued through the early morning hours, into the afternoon. Due to high water levels and the rapid rate of flow of the water, Lake Marble Falls is closed to boating and swimming.

**Llano County**

*East Portion*

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An additional two inches of rain fell along the Burnet-Llano County line, with isolated totals near 3 inches. Brief flash flooding redeveloped in the eastern part of the county.

**Bexar County**

*Countywide*

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Two more inches of rain fell across Bexar County in the early morning hours. Isolated additional totals were up to 4 inches, again in the western part of the county. With streams and creeks still at or above flood stage, flash flooding redeveloped across most county roads and continued through the morning and afternoon.

By late in the afternoon of July 3, heavy rain was located from Uvalde to Kerrville and Fredericksburg, and between Hondo and San Antonio. Rainfall of up to 6 inches was reported in the heavier downpours and flash flooding redeveloped quickly across the area.

**Comal County**

*Countywide*

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Spotty showers and thunderstorms dropped an additional 2 inches of rain over the county, with totals of up to 7 inches west of New Braunfels and south of Canyon Dam. Flash flooding redeveloped just before noon and continued into the mid afternoon. For the first time in history, Canyon Dam sends water over the spillway. Thousands are evacuated along the banks of the Guadalupe and in the city of New Braunfels.

**Atascosa County**

*Southeast Portion*

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An additional 2 to 3 inches of rain falling over the southeast portion of the county, near the Karnes County line, caused more flash flooding problems from the mid afternoon into the early evening.

**Karnes County**

*Southwest Portion*

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A general 2 inch rain falling over the southwest portion of the county, near the Atascosa County line, produced flash flooding that lasted from mid afternoon into early evening.

**Comal**

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The Guadalupe River crested at Sattler at 35.55 feet on July 6 at 1000CST, where 9.0 is flood stage. It crested at New Braunfels above the Comal River on July 6 at 1315CST, where flood stage is 7.0 feet. It crested at New Braunfels below the Comal River on July 6 at 1845CST, where flood stage is 13.0 feet.
TEXAS, South Central

Bexar County
Countywide 04 2300CST
05 1200CST
With streams and creeks still flooded, flash flooding redeveloped over most county roads, continuing until noon.

Blanco County
Countywide 05 0000CST
1200CST
Generally 2 to 3 inches of rain fell over Blanco County, with isolated totals to 5 inches in the extreme southern part. Flash flooding redeveloped almost immediately and continued through the morning.

Burnet County
Countywide 05 0000CST
1600CST
General 2 inch rainfall over Burnet County, with isolated totals to 4 inches south of Marble Falls, caused flash flooding to redevelop very quickly. It continued into the mid afternoon.

Comal County
Countywide 05 0000CST
1500CST
An additional 1 to 2 inches of rain fell over Comal County, with isolated totals of up to 4 inches just west of New Braunfels. Flash flooding redeveloped almost immediately and continued until the mid afternoon.

Gillespie County
Countywide 05 0000CST
1200CST
An additional 2 to 3 inches of rain fell over the county, with up to 5 inches in the southeast. Flash flooding developed very quickly and continued through the morning.

Kendall County
Countywide 05 0030CST
1900CST
The additional rainfall over Kendall County averaged near 2 inches with up to 6 inches in the Boerne area. Flash flooding redeveloped immediately, as creeks and streams remained flooded countywide. Widespread showers and thunderstorms redeveloped on the evening of July 4 between San Antonio, Boerne, Fredericksburg and Marble Falls. Rainfall from the system was generally in the 2 to 3 inch range, with isolated totals to 6 inches near Boerne. Most county creeks and streams had remained flooded through the day and with the additional rainfall, immediate flash flooding developed. The flooding continued into the afternoon for most locations.

Wilson County
West Portion 05 0200CST
0900CST
General rainfall of 2 to 3 inches over the western part of the county, with isolated totals of up to 5 inches, caused flash flooding to redevelop in the early morning hours. The flash flooding ended in the mid morning.

Karnes County
South Portion 05 0240CST
0500CST
An additional 2 inches of rain over the south part of the county, with isolated totals of up to 5 inches, redeveloped flash flooding through the early morning hours.

Hays County
West Portion 05 0330CST
0700CST
General 2 inch rainfall over the western part of the county, with isolated totals of up to 4 inches, resulted in additional flash flooding that continued through the early morning hours.

Caldwell County
West Portion 05 0430CST
1100CST

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</table>
TEXAS, South Central

General 1 to 2 inches of rain over the western part of Caldwell County caused flash flooding through the morning.

Travis County
West Portion

05 0430CST
05 1000CST
0 0
Flash Flood

Two additional inches of rain fell over the western part of Travis County. Isolated totals reached near 4 inches. This produced another round of flash flooding over the western part of the county through the mid morning hours. The city of Austin extends a boating ban to lake Travis. The ban was already in effect for Town Lake.

Guadalupe County
Countywide

05 0500CST
0700CST
0 0
Flash Flood

An additional 1 to 2 inches of rain in the Schertz-Marion-Cibolo area in the western part of Guadalupe County, redeveloped brief flash flooding near sunrise.

Additional showers and thunderstorms formed from Falls City and Floresville near Seguin near midnight. The storms moved northward into the Seguin-Lockhart-San Marcos and Austin areas Heavy rain during the early morning hours. Rainfall of 2 to 3 inches was generally indicated, along with isolated totals to near 5 inches in many locations.

Bandera County
Countywide

05 0230CST
1200CST
0 0
Flash Flood

General 2 to 3 inch rainfall with totals of up to 5 inches north of Bandera caused the flash flooding to redevelop very quickly across the county and continue through the morning.

Medina County
Countywide

05 0230CST
1200CST
0 0
Flash Flood

Rainfall averaging around 2 inches fell just west of Medina Lake and produced a resurgence of flash flooding through the morning hours. The increase in rain totals raise concerns that the additional inflow into Medina Dam could overtop the structure. Questions were raised as to the stability of the structure, and, as a result, an evacuation was ordered for communities immediately below the Dam. More than 4,000 persons were evacuated Friday evening after having just returned on Thursday from a previous evacuation.

Atascosa County
Countywide

05 0300CST
1000CST
0 0
Flash Flood

An additional 1 to 2 inches of rain, added to the accumulations from the previous several days, cause flash flooding over low water crossings through most of the morning.

Kerr County
Southeast Portion

05 0300CST
1900CST
0 0
Flash Flood

Additional rainfall over the southeast part of Kerr County averaged 1 to 2 inches. This accumulation, added to the flooding already present in all county streams and creeks, caused flash flooding to continue through the late afternoon. Heavy rain began forming again near midnight from Jourdanton to Hondo and moved northward into Bandera and Kerr Counties. The additional 2 inch rains were sufficient to redevelop flash flooding over the four counties that continued through the morning.

TXZ206
Comal

05 0545CST
09 0951CST
0 0
Flood

The Comal River at New Braunfels crested at 19.73 feet on July 8 at 1800CST, where flood stage is 15.0 feet.

TXZ188
Gillespie

05 0957CST
1552CST
0 0
Flood

The Pedernales River crested at Fredericksburg at 27.40 feet on July 5 at 1315CST, where flood stage is 22.0 feet.
TEXAS, South Central

TXZ207 Guadalupe
- The Guadalupe River crested at Seguin at 31.00 feet on July 6 at 2010 CST, where flood stage is 19.0 feet.

Bandera County East Portion
- Localized rainfall of 4 inches in 2 hours, combined with the saturated soils, caused a brief resumption of flash flooding in the eastern half of Bandera County.

Kerr County
- Between 2 and 3 inches of rain fell in 2 hours between Kerrville and Center Point. Flash flooding redeveloped over this central part of the county through the afternoon.

Gillespie County
- Luckenbach received nearly 3 inches of rain in just under 2 hours. Area streams and creeks flooded low water crossings through the late afternoon. Significant damage was reported to most of the businesses in Luckenbach. Homes also had considerable damage in them.

Burnet County North Portion
- The northern part of Burnet County received 3 inches of rain in about 2 hours. The area experienced flash flooding though the late afternoon.

Williamson County Northwest Portion
- Up to 3 inches of rain in just under 2 hours fell over northwestern Williamson County. Flash flooding redeveloped quickly and continued through the late afternoon.

Real County North Portion
- Nearly 3 inches of rain in under 2 hours fell over the north portion of Real County. Flash flooding developed over that half of the county and continued through the late afternoon.

Lavaca County Southeast Portion
- Lavaca County southeast of US77 received nearly 4 inches of rain in 2 hours. Because the area soils remained very wet from rainfall during the week of July 4, flash flooding developed quickly and continued into the early evening.

De Witt County Southeast Portion
- Up to 4 inches of rain fell in 2 hours south of a line from Nordheim to Cuero. Since area soils were still saturated from rainfall of the previous week, flash flooding developed and continued until nearly midnight.

On Friday, July 12, a large low pressure system settled over the southern Great Plains, sending a series of weather disturbances southeastward toward South Central Texas. Scattered showers and thunderstorms developed in the afternoon and continued into the evening hours from the Hill Country eastward, producing locally heavy rain and beginning to saturate the soils still moist from the devastating rains earlier in July. Another disturbance arrived on Saturday, July 13, from the northwest, and came a little further south, bringing scattered to numerous showers and thunderstorms to the Texas Hill Country and adjacent parts of South Central Texas on Saturday afternoon and evening of July 13th. These storms produced widespread 1 to 2 inch rain totals, with local amounts of up to 4 inches, causing brief flooding over several counties.

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<th>Real County North Portion</th>
<th>Date</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>13 1600 CST</td>
<td>Flash Flood</td>
</tr>
<tr>
<td></td>
<td>1800 CST</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lavaca County Southeast Portion</th>
<th>Date</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>13 1900 CST</td>
<td>Flash Flood</td>
</tr>
<tr>
<td></td>
<td>2230 CST</td>
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</tr>
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<table>
<thead>
<tr>
<th>De Witt County Southeast Portion</th>
<th>Date</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>13 2030 CST</td>
<td>Flash Flood</td>
</tr>
<tr>
<td></td>
<td>2300 CST</td>
<td></td>
</tr>
</tbody>
</table>
### Storm Data and Unusual Weather Phenomena

<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>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gillespie County, West Portion</td>
<td>14</td>
<td>1200CST</td>
<td>1500CST</td>
<td>0</td>
<td>0</td>
<td>Flash Flood</td>
<td></td>
<td></td>
<td></td>
<td>Up to 3 inches of rain fell in 2 hours over western Gillespie County, producing brief flash flooding through the early afternoon.</td>
</tr>
<tr>
<td>Kendall County, South Portion</td>
<td>14</td>
<td>1330CST</td>
<td>1630CST</td>
<td>0</td>
<td>0</td>
<td>Flash Flood</td>
<td></td>
<td></td>
<td></td>
<td>Up to 3 inches of rain fell in just under 2 hours in the southern part of Kendall County near Boerne. Brief flash flooding developed and continued through the mid afternoon.</td>
</tr>
<tr>
<td>Lee County, Countywide</td>
<td>14</td>
<td>1330CST</td>
<td>1630CST</td>
<td>0</td>
<td>0</td>
<td>Flash Flood</td>
<td></td>
<td></td>
<td></td>
<td>General 1 to 2 inch rainfall over Lee County, along with isolated totals of as much as 4 inches, caused brief flash flooding across the county. On Sunday, July 14, another disturbance came around the low and further south. This caused showers and thunderstorms to evolve further south, and brought a large area of showers and thunderstorms to not only the Texas Hill Country, also across South Central Texas. Strong gusty winds accompanied some of the thunderstorms, with wind gusts of 35 to near 50 mph. Heavy rains in areas brought more localized flooding problems and caused rivers and streams to increase flow again. The showers and thunderstorms became numerous enough in the afternoon of Sunday the 14th to form a mesoscale boundary that moved southward across South Central Texas and to the coastal plains further south the night of the 14th and morning of the 15th.</td>
</tr>
<tr>
<td>Comal County, Southwest Portion</td>
<td>15</td>
<td>1500CST</td>
<td>1700CST</td>
<td>0</td>
<td>0</td>
<td>Flash Flood</td>
<td></td>
<td></td>
<td></td>
<td>General rainfall of 2 to 3 inches fell in around 2 hours west of New Braunfels in the early afternoon. Brief flash flooding developed that ended in the late afternoon. There was no significant damage.</td>
</tr>
<tr>
<td>Dimmit County, Northeast Portion</td>
<td>15</td>
<td>1530CST</td>
<td>1700CST</td>
<td>0</td>
<td>0</td>
<td>Flash Flood</td>
<td></td>
<td></td>
<td></td>
<td>General 1 to 2 inch rains fell in the Big Wells area. Isolated totals in that area reached near 4 inches. Brief flash flooding developed west to near Brundage and south to Valley Wells. No damage was reported.</td>
</tr>
<tr>
<td>Bexar County, Southeast Portion</td>
<td>15</td>
<td>1630CST</td>
<td>1800CST</td>
<td>0</td>
<td>0</td>
<td>Flash Flood</td>
<td></td>
<td></td>
<td></td>
<td>Most sections of eastern Bexar County received 1 inch of rain in the mid afternoon. Rainfall was heaviest in the Elmendorf area where a general 2 inch rain occurred, along with isolated totals to near 4 inches. Brief flash flooding redeveloped in southeast Bexar County. No damage was indicated.</td>
</tr>
<tr>
<td>Guadalupe County, South Portion</td>
<td>15</td>
<td>1630CST</td>
<td>1800CST</td>
<td>0</td>
<td>0</td>
<td>Flash Flood</td>
<td></td>
<td></td>
<td></td>
<td>The south part of Guadalupe County received from 2 to 4 inches of rainfall during the mid afternoon. Brief flash flooding was indicated from Seguin southward, with no damage noted.</td>
</tr>
<tr>
<td>Medina County, South Portion</td>
<td>15</td>
<td>1630CST</td>
<td>2000CST</td>
<td>0</td>
<td>0</td>
<td>Flash Flood</td>
<td></td>
<td></td>
<td></td>
<td>Rainfall over Medina County was generally an inch or less in the mid afternoon. The south part of the county received general 2 inch rainfall with isolated amounts reported to near 4 inches. Brief flash flooding developed between Yancey and Natalia, ending in the early evening.</td>
</tr>
</tbody>
</table>
Frio County
Countywide
15 1700CST 1900CST 0 0 Flash Flood
Widespread 2 to 3 inch rainfall fell on Frio County through the early and mid afternoon. Isolated areas received up to 5 inches of rain. Flash flooding was reported during the early evening, then dissipated without significant damage.

Uvalde County
South Portion
15 1700CST 1900CST 0 0 Flash Flood
Southern Uvalde County received a general 1 to 2 inch rain. Areas southeast of Uvalde reported up to 4 inch totals. Brief flash flooding was indicated from the late afternoon into the early evening. No damage was reported.

Zavala County
Countywide
15 1700CST 1900CST 0 0 Flash Flood
Rainfall over Zavala County was general, with most locations receiving 1 to 2 inches. Isolated totals to near 3 inches were reported, along with brief flash flooding and no damage.

DeWitt County
Countywide
15 1730CST 1930CST 0 0 Flash Flood
DeWitt County received a general 2 to 3 inch rain, with up to 5 inches near Nordheim. Brief flash flooding was reported from late afternoon to early evening. No damage was indicated.

Atascosa County
Southwest Portion
15 1830CST 2100CST 0 0 Flash Flood
A general 1 to 2 inch rainfall was indicated over southern Atascosa County, with totals of up to 6 inches between Charlotte and Hindes. Brief flash flooding was indicated with the heavier amounts through the early evening. Minor damage was reported to county rural roads.

Karnes County
Southeast Portion
15 1830CST 2300CST 0 0 Flash Flood
During the late afternoon, the southeast section of Karnes County from Helena to Runge to Kenedy received between 3 and 4 inches of rainfall with some reports of up to 9 inches. Flash flooding developed very quickly and continued until almost midnight. Damage was generally confined to rural roads and a few low water crossings.

Gonzales County
Southeast Portion
15 1900CST 2030CST 0 0 Flash Flood
Gonzales County south and east of the city of Gonzales received a widespread rainfall of 1 to 2 inches, with isolated amounts of up to 5 inches. Brief flash flooding developed, but ended in the mid evening period. No significant damage was reported.

Wilson County
North Portion
15 1900CST 2100CST 0 0 Flash Flood
Northern Wilson County received a general 1 inch rain, with areas between LaVernia and Sutherland Springs reporting nearly 4 inches. Brief flash flooding developed in the early evening, but ended without significant damage. With soils already saturated from rainfall on July 12 through 14, scattered thunderstorms re-developed near noon of July 15, in advance of a weak upper level system approaching from the southwest. Rainfall in an area from New Braunfels to Uvalde to Carrizo Springs to Cuero and back to New Braunfels was generally between 1 and 3 inches, with isolated totals of up to five inches. Flash flooding began in the mid afternoon and continued into the evening.

DeWitt County
Southeast Portion
16 0800CST 1600CST 0 0 Flash Flood
Rainfall from the scattered showers and thunderstorms continued from early morning into the late morning, with general accumulations of 1 to 2 inches and isolated totals of up to 5 inches. Flash flooding persisted through the morning and into the mid afternoon. Damage was generally confined to county roads.
TEXAS, South Central

Fayette County
South Portion
16 0830CST 1100CST
0 0 Flash Flood
Scattered showers and thunderstorms, more numerous over the south part of the county, produced general rainfall of 3 to 4 inches. Soils were already saturated, and flash flooding developed very quickly, continuing through the morning. No significant damage was reported.

Gonzales County
East Portion
16 0830CST 1100CST
0 0 Flash Flood
General 3 to 4 inch rains fell from Gonzales eastward through the early morning hours, causing flash flooding to develop quickly due to the saturated nature of county soils. The flash flooding continued through most of the morning. No significant damage was indicated.

Lavaca County
Countywide
16 0830CST 1100CST
0 0 Flash Flood
Scattered showers and thunderstorms dropped rainfall of 1 to 2 inches over most of Lavaca County during the early morning hours. Isolated totals of 5 inches were reported between Moulton and Hallettsville. Flash flooding developed rapidly and continued through the morning and just past noon. Minor damage was reported to roads, mainly around Moulton.

Karnes County
Southeast Portion
16 1030CST 1300CST
0 0 Flash Flood
Spreading westward during the morning hours from the Cuero area into southeastern Karnes County, scattered showers and thunderstorms produced rainfall of 2 to 3 inches with isolated amounts near 4 inches. With soils being saturated already, flash flooding developed in the mid morning and continued just past noon. Little or no significant damage was reported.

Scattered showers and thunderstorms began forming shortly in the early morning hours in an area from Cuero to Hallettsville to LaGrange to Gonzales. Rainfall was generally between 2 and 4 inches over the area, with isolated totals of up to 6 inches between LaGrange, Cuero, and Gonzales. Soils had remained saturated from previous rainfall and flash flooding developed shortly after sunrise and continued through the morning. The flash flooding generally continued through the remainder of the morning.

Comal County
East Portion
16 1100CST 1300CST
0 0 Flash Flood
General 1 to 2 inch rainfall across Comal County, with isolated totals to near 4 inches, caused brief flash flooding near the noon period. No damage was indicated.

Dimmit County
East Portion
16 1200CST 1600CST
0 0 Flash Flood
General 1 to 2 inch rains fell with isolated totals to near 4 inches near Big Wells. Flash flooding occurred through the mid afternoon. No damage was indicated.

Frio County
Countywide
16 1200CST 1600CST
0 0 Flash Flood
Widespread 2 to 3 inch rains fell over Frio County, with isolated amounts to 6 inches in the Pearsall area. Soils were already saturated from previous rainfall, and flash flooding developed quickly. It continued into the late afternoon.

Maverick County
South Portion
16 1200CST 1400CST
0 0 Flash Flood
Scattered showers and thunderstorms produced general rain totals of 1 to 2 inches with isolated amounts to 3 inches near El Indio. No damage was indicated.

Zavala County
Countywide
16 1200CST 1400CST
0 0 Flash Flood
TEXAS, South Central

Scattered showers and thunderstorms produced rain totals generally around 1 to 2 inches, with isolated amounts near 4 inches from Batesville southward. No damage was indicated.

On July 16, isolated early morning showers expanded by mid morning into scattered thunderstorms formed with heavy rain that persisted through the early evening. Widespread 1 to 2 inch rains fell from Eagle Pass to LaPryor to Pearsall and Carrizo Springs. Isolated totals of up to 4 to 6 inches were reported. The rain was sufficient to cause brief flash flooding over soils that had remained nearly saturated.

Kendall County

<table>
<thead>
<tr>
<th>Date</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>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>1330 CST 1430 CST</td>
<td>0 0</td>
<td></td>
<td></td>
<td></td>
<td>Flash Flood</td>
</tr>
</tbody>
</table>

Scattered showers and thunderstorms from Boerne to Comfort to Kendalia produced general rain totals to 2 inches through the late morning. With area soils already saturated, flash flooding developed over the county very quickly. It was short-lived, with no damage indicated.

Kerr County

<table>
<thead>
<tr>
<th>Date</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>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>1330 CST 1430 CST</td>
<td>0 0</td>
<td></td>
<td></td>
<td></td>
<td>Flash Flood</td>
</tr>
</tbody>
</table>

General 1 to 2 inch rainfall in scattered showers from Mountain Home to Kerrville, falling over already saturated soils, produced short-lived flash flooding across Kerr County. No damage was indicated.

Edwards County

<table>
<thead>
<tr>
<th>Date</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>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>29</td>
<td>1800 CST 2100 CST</td>
<td>0 0</td>
<td></td>
<td></td>
<td></td>
<td>Flash Flood</td>
</tr>
</tbody>
</table>

On July 29, widely scattered showers and thunderstorms formed over the western Hill Country and Edwards Plateau. General 1 to 2 inch rainfall, with isolated totals to near 4 inches fell over southern Edwards County and northern Uvalde county. SH55 was shut down in places between Rocksprings and Barksdale for several evening hours as a result of the heavy rain. No damage was reported.

Uvalde County

<table>
<thead>
<tr>
<th>Date</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>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>29</td>
<td>2230 CST 0100 CST</td>
<td>0 0</td>
<td></td>
<td></td>
<td></td>
<td>Flash Flood</td>
</tr>
</tbody>
</table>

On July 29, widely scattered showers and thunderstorms formed over the western Hill Country and Edwards Plateau. General 1 to 2 inch rainfall, with isolated totals to near 4 inches fell over southern Edwards County and northern Uvalde county. SH55 was shut down in places from just south of Camp Wood to near Uvalde for several late night hours as a result of the heavy rain. No damage was indicated.

TEXAS, South Panhandle

Stonewall County

<table>
<thead>
<tr>
<th>Date</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>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>06</td>
<td>0700 CST 1100 CST</td>
<td>0 0</td>
<td></td>
<td></td>
<td></td>
<td>Flash Flood</td>
</tr>
</tbody>
</table>

Several Farm-to-Market roads across the central and southeastern portion of the county were flooded.

Stonewall County

<table>
<thead>
<tr>
<th>Date</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>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>06</td>
<td>0728 CST 0945 CST</td>
<td>0 0</td>
<td></td>
<td></td>
<td></td>
<td>Flash Flood</td>
</tr>
</tbody>
</table>

Portions of Highway 83 were flooded and barricaded.

Hockley County

<table>
<thead>
<tr>
<th>Date</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>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>1730 CST</td>
<td>0 0</td>
<td></td>
<td></td>
<td></td>
<td>Tstm Wind/Hail</td>
</tr>
</tbody>
</table>

Wind-driven small hail destroyed at least 200 acres of cotton.

Motley County

<table>
<thead>
<tr>
<th>Date</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>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>1810 CST</td>
<td>0 0</td>
<td></td>
<td></td>
<td></td>
<td>Thunderstorm Wind (G57)</td>
</tr>
</tbody>
</table>

Strong thunderstorm winds estimated at 60 to 70 mph snapped large tree limbs in town.

Childress County

<table>
<thead>
<tr>
<th>Date</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>Character of Storm</th>
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</thead>
<tbody>
<tr>
<td>12</td>
<td>1812 CST</td>
<td>0 0</td>
<td></td>
<td></td>
<td></td>
<td>Thunderstorm Wind (G55)</td>
</tr>
</tbody>
</table>

The Childress ASOS unit measured 63 mph thunderstorm wind gusts.

Cottle County

<table>
<thead>
<tr>
<th>Date</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>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>1905 CST</td>
<td>0 0</td>
<td></td>
<td></td>
<td></td>
<td>Hail(0.75)</td>
</tr>
</tbody>
</table>

Storm Data and Unusual Weather Phenomena

<table>
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<tr>
<th>Location</th>
<th>Time</th>
<th>Path Length (Miles)</th>
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<th>Number of Persons Injured</th>
<th>Estimated Property Damage</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stonewall County</td>
<td>0700 CST 1100 CST</td>
<td>0 0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Flash Flood</td>
</tr>
<tr>
<td>Stonewall County</td>
<td>0728 CST 0945 CST</td>
<td>0 0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Flash Flood</td>
</tr>
<tr>
<td>Hockley County</td>
<td>1730 CST</td>
<td>0 0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Tstm Wind/Hail</td>
</tr>
<tr>
<td>Motley County</td>
<td>1810 CST</td>
<td>0 0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Thunderstorm Wind (G57)</td>
</tr>
<tr>
<td>Childress County</td>
<td>1812 CST</td>
<td>0 0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Thunderstorm Wind (G55)</td>
</tr>
<tr>
<td>Cottle County</td>
<td>1905 CST</td>
<td>0 0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Hail(0.75)</td>
</tr>
</tbody>
</table>
TEXAS, South Panhandle

Lamb County
1 NE Amherst 27 1805CST 0 0 62 mph Thunderstorm Wind (G54)M
The West Texas Mesonet station northeast of town measured 62 mph thunderstorm wind gusts.

TEXAS, Southeast

Newton County
Newton 07 2144CST 0 0 5K Thunderstorm Wind
Numerous trees and power lines were blown down.

Jasper County
Kirbyville 07 2150CST 0 0 5K Thunderstorm Wind
Numerous trees and power lines were blown down.

Tyler County
Spurger 07 2224CST 0 0 5K Thunderstorm Wind
Trees and power lines were blown down along Highway 92.

Hardin County
Village Mills 07 2249CST 0 0 5K Thunderstorm Wind
Numerous trees and power lines were blown down.

Jefferson County
Groves 16 0800CST 0 0 1.5M Thunderstorm Wind (G65)
High winds associated with a severe thunderstorm blew down numerous trees and power lines. The most significant damage was to the Groves Middle School, where the gymnasium lost part of its roof and one wall.

Jasper County
Jasper 24 1745CST 0 0 5K Thunderstorm Wind
Several trees and power lines were blown down.

Newton County
Bon Wier 24 1802CST 0 0 5K Thunderstorm Wind
Several trees and power lines were blown down on Highway 363.

TEXAS, West

Presidio County
Presidio 02 1635CST 1640CST 0 0 200K 0 Thunderstorm Wind (G50)
A severe thunderstorm produced damaging outflow winds in Presidio. A warehouse was destroyed and four homes lost roofs. Small hail collected up to 6 inches deep in some locations around town. Slightly larger hail occurred approximately 30 minutes later, around 615 PM CDT, as the main core of the severe thunderstorm moved over the community.

Presidio County
Presidio 02 1700CST 1900CST 0 0 0 0 Flash Flood
Rainfall amounts of approximately 2.5 inches in less than one hour resulted in road flooding and minor flooding of a few homes in Presidio.

Presidio County
Presidio 02 1715CST 0 0 0 0 Hail(0.88)

Upton County
1 NW Mc Camey 03 1425CST 0 0 0 0 Hail(0.75)

Jeff Davis County
Valentine 03 2030CST 2200CST 0 0 0 0 Flash Flood
Flooding was reported along Highway 90 near the community of Valentine. The cooperative observer in Valentine reported 2.8 inches of rainfall in one hour.

Glasscock County
8 W Garden City 04 1913CST 0.2 50 0 0 0 0 Tornado (F0)
A brief tornado was reported along highway 137.

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## Storm Data and Unusual Weather Phenomena

### TEXAS, West

<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>Estimated Damage to Crops</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glasscock County</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>Flash Flood</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpine</td>
<td>05</td>
<td>0230CST 0250CST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Flash Flood</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpine Muni Arpt</td>
<td>05</td>
<td>1525CST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G54)</td>
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</tr>
<tr>
<td>Scurry County</td>
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<td>15K</td>
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<td>0</td>
<td>Flash Flood</td>
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<tr>
<td>Gaines County</td>
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<td>0</td>
<td>0</td>
<td>Hail (0.75)</td>
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<td></td>
</tr>
<tr>
<td>Pecos County</td>
<td>06</td>
<td>2025CST 2300CST</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>Flash Flood</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marathon</td>
<td>06</td>
<td>2130CST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Hail (0.75)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marathon</td>
<td>06</td>
<td>2135CST 0100CST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Flash Flood</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Terrell County</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>Flash Flood</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scurry County</td>
<td>12</td>
<td>1630CST 1645CST</td>
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<td>0</td>
<td>0</td>
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<td>Thunderstorm Wind (G50)</td>
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</tr>
<tr>
<td>Snyder</td>
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<tr>
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<td>18</td>
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<td>Flash Flood</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marathon</td>
<td>28</td>
<td>1858CST 1925CST</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>Flash Flood</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Notes:
- Water was reported covering Highway 137, north of Highway 158.
- Flooding was reported by law enforcement on roadways in the city of Alpine.
- Flooding was reported along Highway 84. This resulted in two car accidents. However, no injuries were reported.
- A severe thunderstorm produced dime size hail on the Gaines County and Lea County New Mexico border.
- Flooding caused road closures on Highway 18 in Pecos County.
- Flooding was reported along Highway 90 between Marathon and Altuda.
- Flooding was reported along Farm to Market Road 2286, 12 miles north of the intersection of Farm to Market roads 2286 and 2400.
- Reports from the local newspaper indicate that strong winds from a thunderstorm resulted in damage to trees and power lines in the city of Snyder. Local officials responded to no less than four reports of large trees blocking roadways after being blown down by the storm. Based on a summary of the reports...it seems likely a wet microburst affected the city.
- The local newspaper reported that local officials were called to aide a motorist when their car stalled in rapidly rising water between 21st and 22nd Streets in Snyder. No injuries were reported.
- Heavy rains caused Alamito Creek to wash over Old Maverick Road on the west side of the Big Bend National Park.
- Residents in the Valley View community reported as much as 6 inches of rain fell during a microburst event. This resulted in flooding over several county roads southeast of the city of Midland.
A survey of the damage area southeast of Midland indicated that a microburst caused this event. Based on damage patterns, it is evident that the impact point from the microburst was west of Farm to Market Road 1213, north of County Road 150, east of County Road 1160, and south of County Road 144. The worst of the damaged appeared to be south of County Road 144 and also along County Road 150. Estimated wind speeds of 80-100 mph occurred with the microburst.

Three mobile homes in the Valley View area were destroyed, while other homes sustained roof and window damage. One horse was also killed by flying debris. A center pivot irrigation system was destroyed as it was blown out of a field onto a nearby county road. A completely full oil tank battery and numerous powerlines were also blown down during the event.

The 00Z Midland upper air sounding from Sunday evening also suggested the potential for microburst and thunderstorms were forecast for Midland County. Damage estimates for the entire event are estimated in the $250,000 range.

Thunderstorm winds blew down a large flag pole and a few large limbs off trees.

An eleven vehicle wreck occurred in zero visibilities, due to blowing dust, along Interstate 10 at mile marker 225...or 17 miles east of Balmorhea. Two minor injuries were reported. Interstate 10 was closed for two hours and traffic in the west bound lane was backed up for a number of miles into western Pecos County.

A reporter from a local newspaper interviewed people traveling on Interstate 10 in regard to the accident. Travelers reported having to pull off of the interstate on the Reeves/Pecos County line because of high thunderstorm winds and blowing dust. Winds were estimated to be 60 mph.

Pecos County law enforcement reported Highway 285 was flooded and impassable.

The Texas Department of Transportation reported flooding of secondary roads south of Marfa including Farm to Market Road 169.

**Texas, Western North**

**Archer County**

**1 S Megargel**

<table>
<thead>
<tr>
<th>Date</th>
<th>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>07</td>
<td>1715CST</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<td>0</td>
<td>0</td>
<td>Funnel Cloud</td>
</tr>
</tbody>
</table>

This funnel cloud was observed by the Megargel Fire Department and was described as very thin and extending very close to the ground.

**Baylor County**

**2 SSE Westover**

<table>
<thead>
<tr>
<th>Date</th>
<th>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>07</td>
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<td>0</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Funnel Cloud</td>
</tr>
</tbody>
</table>

This funnel cloud was observed by the Megargel Fire Department from Archer County and was described as very thin and extending very close to the ground.

**Clay County**

**Petrolia**

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<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>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
</tr>
</thead>
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<tr>
<td>12</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Hail(1.00)</td>
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</tbody>
</table>
UTAH, East

**Drought**

Extreme to exceptional drought conditions continued throughout the eastern quarter of Utah during the month of July. The persistent drought continued to heighten the risk of wildfires and caused problems for agricultural interests. See the August 2000 Storm Data publication for a continuation report on the drought in the eastern quarter of Utah.

**Wild/Forest Fire**

The Rattle Fire, Black Canyon Fire, and Diamond Fire which began burning on the Tavaputs Plateau in June (see the June 2002 Storm Data publication) were combined into what was named the Rattle Complex. Containment of the complex occurred on July 31st. A total of 94,519 acres were consumed by the fires. The cost of fighting the fires was 11.3 million dollars.

This human caused fire became known as the Mustang Fire. Three outbuildings and one other structure were destroyed, and highway 191 was temporarily closed. The Flaming Gorge Dam and Power Plant were threatened by the fire. The fire consumed 20,038 acres. The cost of fighting the fire was 2.5 million dollars.

This wildfire was named the Carpenter Fire. Several campgrounds were evacuated. The fire consumed 1,250 acres. The fire consumed 1,250 acres. The cost of fighting the fire was 186,000 dollars.

This lightning caused wildfire became known as the Hang Dog fire. Thirty residences and several other structures were threatened and evacuations were ordered. On the 18th of July this fire was included in the Canyon Complex. (See the Canyon Complex entry for a continuation on this fire)

This lightning caused wildfire became known as the Hammond fire. This fire was included in the Canyon Complex on July 18th. (See the Canyon Complex entry for a continuation on this fire)

This lightning caused wildfire became known as the County Line Fire. The fire consumed 3504 acres by the end of the month. (See August 2002 Storm Data Publication for a continuation of this wildfire)

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This lightning caused wildfire became known as the County Line Fire. The fire consumed 3504 acres by the end of the month. (See August 2002 Storm Data Publication for a continuation of this wildfire)

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**Thunderstorm Wind (G85)**

The Canyon Complex consisted of the Hang Dog and Hammond wildfires. The Hang Dog fire occurred 8 miles northeast of La Sal, Utah, and the Hammond fire occurred 15 miles northwest of Blanding, Utah. Both of these fires were caused by lightning. Combined, these fires consumed 9,800 acres of forest consisting of mixed timber and brush. These fires were contained on the 21st of July. The cost of fighting these fires was 1.6 million dollars.

**Flash Flood**

A flash flood ran across US Highway 191 and deposited a significant amount of debris onto the road.
UTAH, East

San Juan County
3 S Monticello
27 1440MST 1730MST
0 0
Flash Flood

Uintah County
.5 S Jensen
27 1935MST 1945MST
0 0
Hail(0.75)

San Juan County
Monticello
28 1340MST 1440MST
0 0
Heavy Rain

Heavy rain resulted in 2 to 3 inches of water flowing across Highway 191.

UTAH, West and Central

Sevier County
Monroe to Richfield
14 1500MST 1600MST
0 0 10K 5K
Tstm Wind/Hail

A strong thunderstorm ripped through the Sevier Valley, knocking down a 200-foot section of building in Richfield, and blowing down large trees in Monroe. The strongest recorded wind gust was 48 mph (42 kts), but stronger gusts likely occurred with this storm.

Rich County
Randolph
16 1515MST 1520MST
0 0 0 0
Hail(0.75)

A severe thunderstorm deposited 3/4 inch hail about 3 miles south of Randolph.

Cache County
Logan
18 1300MST
0 0 0 0
Funnel Cloud

A funnel cloud was spotted briefly near Logan.

Garfield County
Antimony
23 1510MST 1610MST
0 0 0 0
Flash Flood

Heavy rains in Garfield County produced flash flooding 10 miles south of Antimony, with 6 inch to 1 foot deep water across the roadway.

Wayne County
South Portion
25 1630MST 1830MST
0 0 0 0
Flash Flood

Flash flooding was reported on Highway 24 near Capitol Reef National Park. The Fremont River was reported out of its banks, and was crossing the road.

Millard County
Delta
25 1632MST
0 0 0 0
Thunderstorm Wind (G50)M

A severe thunderstorm in Delta produced a wind gust of 58 mph (50 kts).

Tooele County
St John Station
25 1745MST
0 0 0 0
Thunderstorm Wind (G56)M

---

351
UTAH, West and Central

A severe thunderstorm wind gust of 64 mph (56 kts) was recorded at the St. John substation.

Salt Lake County
Countywide

<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>Vernon</td>
<td>25</td>
<td>1800MST</td>
<td>1900MST</td>
<td></td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Lightning</td>
</tr>
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</table>

One 28-year-old male and one 23-year-old female, a husband and wife, were struck and killed by lightning near the summit of Lone Peak in the Wasatch Mountain Range just southeast of Salt Lake City. The experienced climbers saw the storm coming and were moving toward a more sheltered location when they were struck. A third climber was stunned but not injured, and climbed down for help.

Juab County
Central Portion to Countywide

<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>
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<tr>
<td>Orem</td>
<td>25</td>
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<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Thunderstorm Wind (G52)</td>
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</table>

Spotters in Orem estimated thunderstorm wind gusts of 50-60 mph (43-52 kts). Some minor tree damage was reported.

Wasatch County
Heber City

<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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<tr>
<td>Provo</td>
<td>26</td>
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<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>50K</td>
<td>10K</td>
<td>Thunderstorm Wind (G62)</td>
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</table>

A 71 mph (62 kts) wind gust was reported from a severe thunderstorm. Several trees and power poles were knocked down or damaged. There was also damage to cars and structures.

VERMONT, North and Central

Grand Isle County
South Hero

<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>South Hero</td>
<td>03</td>
<td>2005EST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>Hail(0.75)</td>
<td></td>
<td></td>
</tr>
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A cold front along the Canadian-United States border triggered locally severe thunderstorms Wednesday night, July 3rd.

Lamoille County
Hyde Park

<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>Hyde Park</td>
<td>03</td>
<td>2115EST</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>5K</td>
<td></td>
<td>Thunderstorm Wind</td>
</tr>
</tbody>
</table>

Lamoille County
Morrisville

<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>Morrisville</td>
<td>03</td>
<td>2120EST</td>
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<td></td>
<td>0</td>
<td>0</td>
<td>5K</td>
<td></td>
<td>Thunderstorm Wind</td>
</tr>
</tbody>
</table>

A cold front, along the Canadian-United States border, triggered locally severe thunderstorms Wednesday night, July 3rd. Numerous trees were blown down in the towns of Hyde Park and Morrisville.
### VERMONT, North and Central

#### Caledonia County
- **Lyndonville** 03 2215EST 0 0 Hail(0.75)
  - A cold front, along the Canadian-United States border, triggered locally severe thunderstorms Wednesday night, July 3rd.

#### Orleans County
- **Greensboro** 04 1220EST 0 0 Hail(1.50)
  - A cold front moved across the area with thunderstorms during the afternoon and evening of July 4th. A few storms were severe.

#### Washington County
- **Warren** 04 1255EST 0 0 Hail(1.00)
  - A cold front moved across the area with thunderstorms during the afternoon and evening of July 4th. A few storms were severe.

#### Washington County
- **Roxbury** 04 1315EST 0 0 Hail(0.75)
  - A cold front moved across the area with thunderstorms during the afternoon and evening of July 4th. A few storms were severe.

#### Orange County
- **Brookfield** 04 1345EST 0 0 5K Thunderstorm Wind
  - Numerous trees were blown down in both Brookfield and Braintree.

#### Orange County
- **Braintree** 04 1350EST 0 0 5K Thunderstorm Wind
  - Numerous trees were blown down in Hinesburg.

#### Chittenden County
- **Hinesburg** 04 1352EST 0 0 5K Thunderstorm Wind
  - In Brookfield large hail and a funnel cloud were reported.

#### Orange County
- **Brookfield** 04 1440EST 0 0 Funnel Cloud
  - In Brookfield large hail and a funnel cloud were reported.

#### Orange County
- **Union Vlg** 04 1555EST 0 0 5K Thunderstorm Wind
  - In Brookfield large hail and a funnel cloud were reported.

#### Windsor County
- **Taftsville** 04 1740EST 0 0 Hail(1.00)
  - A cold front moved across the area with thunderstorms during the afternoon and evening of July 4th. A few storms were severe.

#### Windsor County
- **3 E Woodstock** 04 1750EST 0 0 Lightning
  - As a thunderstorm was ending near Quechee, Vermont, a male in his late 30's was struck by the final lightning bolt of a thunderstorm. The bolt struck the individual's tent. Initially, after the strike, the individual reportedly spoke, then lapsed into unconsciousness followed by cardiac arrest and death. M?CA

#### Addison County
- **Salisbury** 15 1350EST 0 0 5K Thunderstorm Wind
  - A cold front moved southeast from Canada and triggered afternoon thunderstorms. A few of the storms were severe. Trees were blown down in Salisbury, Vermont.

#### Rutland County
- **Brandon** 15 1400EST 0 0 5K Thunderstorm Wind
  - A cold front moved southeast from Canada and triggered afternoon thunderstorms. A few of the storms were severe. Trees were blown down in Brandon, Vermont.

#### Windsor County
- **Plymouth** 15 1440EST 0 0 Hail(0.88)
### Storm Data and Unusual Weather Phenomena

**July 2002**

<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>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VERMONT, North and Central</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Windsor County Reading</td>
<td>15</td>
<td>1455EST</td>
<td>0</td>
<td>0</td>
<td>Hail(0.75)</td>
<td>A cold front moved southeast from Canada and triggered afternoon thunderstorms. A few of the storms were severe with large hail.</td>
<td></td>
<td></td>
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<tr>
<td>Orleans County Newport Center</td>
<td>17</td>
<td>2115EST</td>
<td>0</td>
<td>0</td>
<td>Hail(0.88)</td>
<td>A warm front moved across the area during the afternoon and evening. A few thunderstorms were triggered with large hail reported in Newport Center.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rutland County Chittenden</td>
<td>23</td>
<td>1135EST</td>
<td>0</td>
<td>0</td>
<td>10K</td>
<td>Thunderstorm Wind</td>
<td>A cold front moved southeast across Vermont and triggered late morning and afternoon thunderstorms. A thunderstorm in Rutland county resulted in downed trees and power lines.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>VERMONT, South</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VTZ013&gt;014 Bennington - Windham</td>
<td>05</td>
<td>2000EST</td>
<td>0</td>
<td>0</td>
<td>Smoke</td>
<td>Smoke, from many forest fires across the Nemiscau region of northern Quebec, became trapped under a subsidence inversion, and was transported south across southern Vermont from the evening hours of July 5, to the late evening of July 7. The forest fires were sparked by exceptionally hot and dry weather over that part of Canada followed by an unusual amount of thunderstorm activity, resulting in many lightning strikes. The circulation between high pressure over Hudsons Bay and a low pressure off the Canadian Maritimes transported the smoke southward. The smoke obscured the sky, and even reduced surface visibilities to as low as one mile, especially on the early morning of July 7. Advisories were issued warning people with respiratory problems to remain indoors and all individuals to curb outside activity. No major problems were reported to the National Weather Service as a result of this smoke. By late Sunday, July 7, the low pressure weakened and moved further east, allowing the wind to back into more of a westerly direction, finally dissipating the smoke.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>VIRGIN ISLANDS</strong></td>
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<td>NONE REPORTED.</td>
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<tr>
<td><strong>VIRGINIA, East</strong></td>
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<td>0</td>
<td>Hail(0.75)</td>
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<td></td>
<td></td>
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<tr>
<td>Mecklenburg County 3 S Bracey</td>
<td>05</td>
<td>1645EST</td>
<td>0</td>
<td>0</td>
<td>Hail(0.75)</td>
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<td></td>
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</tr>
<tr>
<td>Isle Of Wight County Isle Of Wight</td>
<td>14</td>
<td>0800EST 1400EST</td>
<td>0</td>
<td>0</td>
<td>Heavy Rain</td>
<td>Portions of interior southeast Virginia received between 3 and 4 inches of rain within six hours.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Southampton County Courtland</td>
<td>14</td>
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<td>0</td>
<td>Heavy Rain</td>
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<tr>
<td>Surry County Dendron</td>
<td>14</td>
<td>0800EST 1400EST</td>
<td>0</td>
<td>0</td>
<td>Heavy Rain</td>
<td></td>
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<td>0800EST 1400EST</td>
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<td>York County Seaford</td>
<td>19</td>
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<td>0</td>
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<td>2K</td>
<td>Thunderstorm Wind</td>
<td>Trees and power lines down.</td>
<td></td>
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</tbody>
</table>

354
## Storm Data and Unusual Weather Phenomena

### VIRGINIA, East

**Emporia County**
*1 E Emporia*

- **Time:** 20 1550EST
- **Character:** Thunderstorm Wind
- **Number of Persons:** 0
- **Estimated Damage:** 1K
- **Description:** Large limbs down. Limbs blocking Route 58.

**Chesterfield County**
*3 E Midlothian*

- **Time:** 27 1500EST
- **Character:** Thunderstorm Wind
- **Number of Persons:** 0
- **Estimated Damage:** 5K
- **Description:** Couple trees down. Sheet metal roof of auto body shop partially torn off.

### VIRGINIA, Extreme Southwest

**Scott County**
*Gate City*

- **Time:** 02 1340EST
- **Character:** Hail(0.75)
- **Number of Persons:** 0
- **Estimated Damage:** Dime size hail was reported in Gate City.

**Scott County**
*Gate City*

- **Time:** 02 1515EST
- **Character:** Hail(0.88)
- **Number of Persons:** 0
- **Estimated Damage:** Nickel size hail was reported in Gate City.

**Washington County**
*Abingdon*

- **Time:** 02 1600EST
- **Character:** Hail(0.75)
- **Number of Persons:** 0
- **Estimated Damage:** Dime size hail was reported in Abingdon.

**Russell County**
*1 E Lebanon to Lebanon*

- **Time:** 02 1605EST
- **Character:** Hail(1.00)
- **Number of Persons:** 0
- **Estimated Damage:** Quarter size hail was reported 1 mile east of Lebanon.

**Russell County**
*Countywide*

- **Time:** 02 1650EST
- **Character:** Thunderstorm Wind
- **Number of Persons:** 0
- **Estimated Damage:** Dime size hail was reported in Coeburn.

**Wise County**
*Coeburn*

- **Time:** 02 1655EST
- **Character:** Hail(1.00)
- **Number of Persons:** 0
- **Estimated Damage:** Quarter size hail was reported at Coeburn.

**Wise County**
*Wise*

- **Time:** 02 1810EST
- **Character:** Hail(0.75)
- **Number of Persons:** 0
- **Estimated Damage:** Dime size hail was reported at Wise.

**Washington County**
*Countywide*

- **Time:** 03 1400EST 1600EST
- **Character:** Flash Flood
- **Number of Persons:** 0
- **Estimated Damage:** Flooding was reported across the county.

**Washington County**
*Countywide*

- **Time:** 03 1500EST 1600EST
- **Character:** Flash Flood
- **Number of Persons:** 0
- **Estimated Damage:** A number of roads were closed across the county.

**Washington County**
*Countywide*

- **Time:** 03 1520EST
- **Character:** Thunderstorm Wind
- **Number of Persons:** 0
- **Estimated Damage:** Trees were reported down across the county.

**Scott County**
*Countywide*

- **Time:** 03 1610EST
- **Character:** Thunderstorm Wind
- **Number of Persons:** 0
- **Estimated Damage:** Utility company reported power outages from seven different locations where trees were downed on power lines.

**Washington County**
*Countywide*

- **Time:** 03 1610EST
- **Character:** Thunderstorm Wind
- **Number of Persons:** 0
- **Estimated Damage:** Trees were reported down across the county.

**Lee County**
*Pennington Gap*

- **Time:** 03 1630EST
- **Character:** Hail(1.25)
- **Number of Persons:** 0
- **Estimated Damage:** Quarter to half dollar size hail was reported at Pennington Gap.

**Washington County**
*Countywide*

- **Time:** 04 1500EST
- **Character:** Thunderstorm Wind
- **Number of Persons:** 0
- **Estimated Damage:** 20K

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**355**
### Storm Data and Unusual Weather Phenomena

**VIRGINIA, Extreme Southwest**

Trees were reported down in various locations across the county.

Russell County
2 N Rosedale
04 1542EST 0 0 Hail(1.75)

Golfball size hail was reported 2 miles north of Rosedale.

**VIRGINIA, North**

**VAZ025>031-036>042-050>057**

High pressure remained stationary off the Delmarva coastline during the 1st week of July. This resulted in a prolonged period of hot and humid weather across the Mid Atlantic region. Between July 2nd and 4th, high temperatures rose into the lower to middle 90s and dew points reached into the lower 70s. This resulted in heat index values reaching 100 to 110 degrees during the afternoon.

Highland County
Mc Dowell
02 1700EST 0 0 Hail(1.75)

Golfball sized hail covered the ground.

A thunderstorm with large hail moved through Highland County during the evening of the 2nd. Near McDowell, a sheriff reported golfball sized hail covering the road around 6 PM EDT.

Frederick County
Gore
05 0143EST 0 0 1K Thunderstorm Wind

Trees were downed onto Route 259.

A thunderstorm with high winds moved through Frederick County during the pre-dawn hours of the 5th. The storm downed trees onto Route 259 near Gore.

Frederick County
Gore
09 1710EST 0 0 2K Thunderstorm Wind

A power line was downed onto Emma Row Lane.

Frederick County
Gainesboro
09 1715EST 0 0 0.50K Thunderstorm Wind

A tree was downed onto Apple Pie Ridge Road.

Frederick County
Clear Brook
09 1730EST 0 0 5K Thunderstorm Wind

Power lines were downed onto Welltown Road.

Loudoun County
West Portion
09 1805EST 1815EST

Trees were downed.

Loudoun County
Leesburg
09 1815EST

Power lines were downed.

Albemarle County
6 SE Crozet
09 1850EST

Trees were downed at mile marker 113 on Interstate 64.

Augusta County
Countywide
09 1900EST

Trees were downed.

Scattered thunderstorms moved through Northern and Central Virginia between 5 and 8 PM EDT on the 9th. The strongest storms produced wind gusts in excess of 55 MPH in Augusta, Albemarle, Loudoun, and Frederick counties. In Frederick County, a power line was downed onto Emma Row Lane in Gore. A tree was downed onto Apple Pie Ridge Road in Gainesboro. Power lines were downed onto Welltown Road in Clear Brook. In Loudoun County, trees were downed across the western portion of the county. Power lines and tree branches were downed in Leesburg. In Albemarle County, trees were downed at mile marker 113 on Interstate 64 about 6 miles southeast of Crozet. In Augusta County, scattered trees were downed countywide.
## Storm Data and Unusual Weather Phenomena

**July 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><strong>VIRGINIA, North</strong></td>
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<td>Chantilly</td>
<td>16</td>
<td>2350EST</td>
<td>0</td>
<td>0</td>
<td>100K</td>
<td>Lightning</td>
<td>A lightning fire severely damaged the attic and roof of a home. An early morning thunderstorm produced a lightning bolt which struck a home in Chantilly around 12:50 AM EDT on the 17th. A Tulip Tree Court home sustained $100,000 damage from a fire which was caused by lightning. Electrical wiring, the second story ceiling, and the roof of the home were damaged.</td>
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<td></td>
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<td>150EST</td>
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<td>Excessive Heat</td>
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<tr>
<td>Shenandoah County</td>
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<td></td>
<td>Water covered a road in Orkney Springs.</td>
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<td>1448EST</td>
<td>0</td>
<td>0.5K</td>
<td>Thunderstorm Wind</td>
<td>A tree was downed onto South Middle Road.</td>
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<td>2K</td>
<td>Thunderstorm Wind</td>
<td>Golfball sized hail fell.</td>
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<td>1515EST</td>
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<td>Hail(1.75)</td>
<td>Several trees were downed near Route 340.</td>
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<tr>
<td>Winchester (C)</td>
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<td>1720EST</td>
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<td>Winchester (C)</td>
<td>27</td>
<td>1230EST</td>
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<td>0</td>
<td>0</td>
<td>Heavy Rain</td>
<td>Several roads were closed by flooding. Scattered thunderstorms moved through the Shenandoah Valley and the Central Piedmont during the afternoon and evening of the 23rd. In Shenandoah County, heavy downpours flooded a road in Orkney Springs. High winds downed a tree onto South Middle Road in Forestville. In Frederick County, roads were reported underwater in Winchester. A total of 2.1 inches of rain was recorded at Cross Junction. In Page County, a severe storm dumped golfball sized hail and blew down several trees near Route 340 in Rileyville. In Albemarle County, several roads were closed by rushing water, including a few surrounding the University of Virginia campus near Charlottesville.</td>
<td></td>
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</tr>
</tbody>
</table>
VIRGINIA, North

MPH were also reported. In Clarke County, twenty trees were downed in Boyce. In Fauquier County, trees were downed in Broad Run and wires were downed in Warrenton. In Fairfax County, large tree branches were downed in Centreville.

VIRGINIA, Northwest

A large area of high pressure sat off the Mid-Atlantic coast during the last week of July. This caused a warm and moist south wind to blow into the region for several days, resulting in another heat wave. The hottest days were the 28th and 29th of July when temperatures rose into the 90s and heat index values reached 100 to 110 degrees. Power companies reported record electricity use on the 29th. Several jurisdictions reported an increase of emergency room visits due to the heat.

VIRGINIA, Southwest

Scattered locations throughout the county had trees and power lines blown down.

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>
<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>AUGUSTA - ROKING - SHENANDOAH - FREDERICK - PAGE - WARREN - CLARKE - NELSON - ALBEMARLE - GREENE - MADISON - RAPPANNOCK - FAUQUIER - LOUDOUN - ORANGE - CULPEPER - PRINCE WILLIAM - FAIRFAX - ARLINGTON - STAFFORD - SPOTSYLVANIA - KING GEORGE</td>
<td>28</td>
<td>1000EST</td>
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<td>Excessive Heat</td>
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<tr>
<td>29</td>
<td>2000EST</td>
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</table>

Dickenson County

Countywide 02 1845EST 1900EST 0 0 3K Thunderstorm Wind

Scattered locations throughout the county had trees and power lines blown down.

Montgomery County

Blacksburg 02 1416EST 0 0 0 0 0 0 0 0

Grayson County

Fries 02 1600EST 0 0 0 0 0 0 0 0

Grayson County

Fries 02 1600EST 0 0 0 0 0 0 0 0

Wythe County

6 NW Wytheville 01 1710EST 0 0 0 0 0 0 0 0

Carroll County

3 W Bylesby 02 1600EST 0 0 0 0 0 0 0 0

Botetourt County

Fincastle 02 1625EST 0 0 0 0 0 0 0 0

Montgomery County

Elliston 02 1625EST 0 0 0 0 0 0 0 0

July 2002

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**Storm Data and Unusual Weather Phenomena**

**July 2002**

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Local/Standard Time</th>
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<tr>
<td>Thunderstorms during the afternoon of the 2nd produced hail up to 2 inches in diameter and damaging winds.</td>
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**Storm Data and Unusual Weather Phenomena**

July 2002

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Thunderstorms during the afternoon of the 3rd produced damaging winds, flash flooding, and hail up to 1 inch in diameter.

Thunderstorm winds downed trees in Paint Bank, Pulaski, 2 miles south of New Castle, large tree limbs and power lines 1 miles northwest of Lick Run, and large tree limbs in Martinsville.

Heavy thunderstorm rains caused flash flooding in Pembroke, 2 miles west of Staffordsville, Tazewell, downtown Blacksburg and on the Campus of Virginia Tech in Blacksburg.

| Alleghany County | 03 | 2232EST | | | 0 | 0 | 125K | Lightning | |

Lightning during the late evening of the 3rd struck a house, starting a fire which destroyed the house.
Thunderstorms during the afternoon of the 4th produced damaging winds, damaging lightning, and hail up to dime size.

Thunderstorm winds downed trees in Patrick Springs and uprooted small trees in Tazewell.

Lightning struck the New River Valley County Jail causing significant damage to the security system.

Thunderstorms during the late evening of the 4th and very early morning of the 5th produced flash flooding that closed several roads 1 mile north of Lexington. In addition some homes reported flooding and water in basements.

Thunderstorm winds downed numerous trees and power lines in Moneta. Damage was done to the roofs of several homes and a shed was blown down. Thunderstorm winds also blew a tree onto Route 666, eight miles southwest of Moneta.

Thunderstorms during the afternoon of the 5th produced damaging winds and hail up to one inch in diameter.

Thunderstorms during the afternoon of the 20th produced hail up to one inch in diameter.

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VIRGINIA, Southwest

Rockbridge County
2 SW Natural Bridge Station 23 1555EST 0 0 0 Thunderstorm Wind

Rockbridge County
Glasgow 23 1600EST 0 0 5K Lightning

Franklin County
3 NE Burnt Chimney 23 1625EST 0 0 0 Thunderstorm Wind
Thunderstorms during the afternoon of the 23rd produced damaging winds, dangerous lightning, and hail up to one inch in diameter.

Thunderstorm winds downed large trees 3 miles northeast of Burnt Chimney and trees and power lines 2 miles southwest of Natural Bridge Station.

Lightning struck the town hall building in Glasgow, damaging the computers in the building.

Giles County
Mountain Lake 25 2315EST 0 0 15K Flash Flood
26 0030EST

Giles County
Pearsburg 25 2315EST 0 0 150K Flash Flood
26 0030EST

Giles County
Pembroke 25 2315EST 0 0 750K Flash Flood
26 0030EST
Thunderstorms during the late evening of the 25th and the early morning of the 26th produced significant flash flooding in Pearsburg and especially in Pembroke in Giles County. In Pearsburg numerous roads were flooded with several washed away. Damage was done to four businesses and several residences. In Pembroke, Doe Creek flooded numerous residences with eight businesses reporting water damage. This included a tire business that was completely destroyed and an auto dealership which suffered significant damage. Flash flooding also damaged the hotel at Mountain Lake.

WASHINGTON, Northeast

Spokane County
1 S Millwood 07 0000PST 0 0 15K Lightning
Lightning struck the roof of an apartment building north of the intersection of Sprague and Argonne, igniting a fire that burned a 6-by-22 foot hole in the roof of the apartment. The residents of the apartment escaped without injury.

Grant County
Ephrata 07 2200PST 0 0 150K Lightning
A direct hit by lightning set a two-story home on Johnson Road ablaze, completely destroying the home and its contents. The family living in the home escaped without injury.

Spokane County
Deer Park 08 0240PST 0 0 6K Lightning
Lightning caused extensive damage to the electrical system of one of the wells in Deer Park's water system.

WASHINGTON, Northwest

NONE REPORTED.

WASHINGTON, Southeast

Klickitat County
7 NE Lyle 07 1555PST 0 0 1K Thunderstorm Wind
Strong winds from a thunderstorm caused a suspension bridge to collapse across the Klickitat River between Lyle and Pitt.

Benton County
Kennewick 07 1815PST 0 0 Hail(0.88)
WASHINGTON, Southeast

Benton County
Kennewick 07 1825PST 0 0 20K Thunderstorm Wind
Ham radio operator reported trees blown into cars and homes.

Benton County
Prosser 07 2020PST 0 0 Hail(0.75)

Benton County
Hanford 07 2115PST 0 0 Hail(0.75)

Franklin County
Pasco 07 1821PST 0 0 770K Thunderstorm Wind (G66)M
Strong wind gusts from a thunderstorm flipped two small airplanes at the Tri-Cities airport in Pasco. Five feeding bunks at DeVries Dairy were also destroyed. The winds knocked out power to thousands of residents in the county, and toppled many trees.

Franklin County
Pasco 07 1830PST 0 0 Hail(0.75)
Hail from this storm severely damaged thousands of acres of crops in Pasco. Some of the hardest hit crops were tomatoes, cucumbers, corn, green beans, and peppers.

Franklin County
10 NNE Pasco 07 1830PST 0 0 Thunderstorm Wind (G73)M

WAZ024-024>030
East Columbia River Gorge - East Slopes Southern Cascades - Kittitas Valley - Yakima Valley - Lower Columbia Basin - Blue Mountain Foothills - Northwest Blue Mountains
10 0000PST 0 0 Excessive Heat
14 0600PST 0 0 A record breaking heat wave shattered many daily record high temperatures across the state. Some of the warmest locations include Prosser with 111 degrees, Walla Walla with 110 degrees, and Sunnyside with 109 degrees.

Benton County
9 NNE Prosser 13 0200PST 1100PST 0 0 Wild/Forest Fire
The Crosby Road Fire, sparked by lightning, consumed 2,000 acres and one structure.

WASHINGTON, Southwest

NONE REPORTED.

WEST VIRGINIA, East

WVZ048>053-055
Grant - Mineral - Hampshire - Morgan - Berkeley - Jefferson - Hardy
02 1000EST 0 0 Excessive Heat
High pressure remained stationary off the Delmarva coastline during the 1st week of July. This resulted in a prolonged period of hot and humid weather across the Mid Atlantic region. Between July 2nd and 4th, high temperatures rose into the lower to middle 90s and dew points reached into the lower 70s. This resulted in heat index values reaching 100 to 110 degrees during the afternoon.

Pendleton County
Harper 02 1736EST 0 0 Hail(1.00)
Quarter sized hail fell.

Hardy County
Moorefield 02 2105EST 0 0 Hail(0.75)
Dime sized hail fell.
Thunderstorms with large hail moved through Pendleton and Hardy Counties on the evening of the 2nd. In Pendleton County, quarter sized hail was reported in Harper. In Hardy County, dime sized hail fell in Moorefield.

Hampshire County
Levels 09 1650EST 0 0 2K Thunderstorm Wind
A tree was downed onto a power line.
WEST VIRGINIA, East

Morgan County
Central Portion

09 1654EST
Tree branches were downed along Route 522.

Jefferson County
Shepherdstown

09 1746EST
Trees were downed in town and along Route 230.

Jefferson County

Thunderstorms with damaging winds moved through the Eastern Panhandle between 5 and 7 PM EDT. In Hampshire County, a tree was downed onto a power line in Levels. In Morgan County, tree branches were downed along Route 522. In Jefferson County, trees were downed in Shepherdstown and along Route 230.

Hampshire County
Levels

23 1618EST
Two feet of water covered a road and small creeks overflowed their banks.

Grant County
Countywide

27 0730EST
Several roads, creeks, and basements were flooded.

WVZ048>053-055

A large area of high pressure sat off the Mid-Atlantic coast during the last week of July. This caused a warm and moist south wind to blow into the region for several days, resulting in another heat wave. The hottest days were the 28th and 29th of July when temperatures rose into the 90s and heat index values reached 98 to 110 degrees.

WEST VIRGINIA, North

Marshall County
Moundsville

01 1740EST
Heavy thunderstorm rains produced street flooding up to two feet deep in Moundsville.

Marshall County
Moundsville

01 1745EST
Thunderstorm winds downed a few trees.

Brooke County
Wellsburg

04 1445EST
Thunderstorm winds downed several trees.

Monongalia County
Morgantown

04 2250EST
Hail(0.75)

Monongalia County
Daybrook

23 1550EST
Thorntorial thunderstorm rains produced minor roadway flooding from Upper Day Run along State Route 218.

WEST VIRGINIA, Southeast

Greenbrier County
Lewisburg

02 1310EST
Hail(0.88)

Greenbrier County
1 N Lewisburg

02 1328EST
Hail(0.75)
**WEST VIRGINIA, Southeast**

Summers County
3.5 NW Lick Creek 02 1330EST 0 0 Hail(0.75)

Greenbrier County
Lewisburg 02 1335EST 0 0 0 Thunderstorm Wind

Monroe County
Sinks Grove 02 1356EST 0 0 Hail(0.75)

Monroe County
1 NW Union 02 1420EST 0 0 0 Thunderstorm Wind

Monroe County
1 NW Union 02 1425EST 0 0 Hail(0.80)

Mercer County
Kellysville 02 1430EST 0 0 Hail(1.00)

Thunderstorms during the afternoon of the 2nd produced hail up to quarter size and damaging winds.

Thunderstorm winds downed trees in Lewisburg and 1 mile northwest of Union.

Greenbrier County
Alderson 24 2045EST 5K 2200EST 0 0 0 Flash Flood

Thunderstorms during the evening of the 24th produced flash flooding in Alderson in Greenbrier County. Several roads in town were reported under water and a number of homes reported flooded basements.

**WEST VIRGINIA, West**

Raleigh County
Beckley 02 1537EST 0 0 Hail(1.00)

Clay County
2 N Clay 02 1540EST 0 0 Hail(0.75)

Raleigh County
Southwest Portion 02 1545EST 5K 1800EST 0 0 0 Flash Flood

Rains of 2 to 4 inches fell between 1430 and 1730E in the vicinity of Lester, Crab Orchard, and Sophia. Main Street in Sophia had 1 to 2 feet of water for a brief time. No evacuations were required, but several basements and roads were flooded.

Boone County
Jeffrey 02 1600EST 0 0 Hail(1.00)

Boone County
Whitesville 02 1604EST 0 0 Hail(1.25)

Nicholas County
Craigsville 02 1620EST 0 0 Hail(1.25)

Nicholas County
Summersville 02 1631EST 0 0 Hail(0.75)

Logan County
Amherstdale 02 1655EST 0 0 Hail(1.00)

Pocahontas County
2 E Linwood 02 1720EST 0 0 Hail(0.88)

Nickel size hail fell on the mountain ridge at Snowshoe.

Medowell County
Welch 03 1740EST 0 0 Hail(0.75)

Wyoming County
Cyclone 03 1901EST 0 0 Hail(1.00)

Randolph County
Beverly 09 1700EST 0 0 1.5K Lightning

365
WEST VIRGINIA, West

Lightning struck the steeple of the Presbyterian Church, built after the Civil War. Quick action by fire fighters saved the wooden church.

Upshur County
North Portion

<table>
<thead>
<tr>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons</th>
<th>Estimated Damage</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>09 234EST 10 0200EST</td>
<td>00 0 5K</td>
<td>Flash Flood</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Numerous roadways were flooded by small streams in the Lorentz to Nebo vicinity. A few basements were also flooded.

Randolph County
5 W Coalton to Elkins

<table>
<thead>
<tr>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons</th>
<th>Estimated Damage</th>
<th>Character of Storm</th>
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<tr>
<td>10 0015EST 0200EST</td>
<td>00 0 75K</td>
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</table>

Water damaged carpets and the wooden floors at the YMCA on Davis Ave. in Elkins.

Rains of 2 to 3.75 inches fell along the Route 33 corridor in Upshur County, on east, to Elkins of Randolph County. Buckhannon measured 3.6 inches of rain, while Elkins had 3.25 inches. Two inches of rain fell in Elkins during just an hour. No evacuations were required.

Logan County
Lyburn to Man

<table>
<thead>
<tr>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons</th>
<th>Estimated Damage</th>
<th>Character of Storm</th>
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</thead>
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<tr>
<td>19 0730EST 0930EST</td>
<td>00 0 800K</td>
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<td></td>
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<td></td>
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</table>

Rains of 2.5 to 3.5 inches in less than 3 hours, flooded creeks and roads. A coal sediment pond, about 10 feet deep, 100 feet wide, and 250 feet long, overflowed along Winding Shoals Branch. The sludge rushed down the hollow, damaging around a dozen homes. About 35 people lived in the hollow. Luckily, no one was injured. One woman escaped out the back door of a mobile home and up a hillside. She said, “I just knew we were going to die.” About 10 vehicles were destroyed. The recovery efforts included the coal company buying new homes and vehicles for the residents.

Boone County
Turtle Creek to Ramage

<table>
<thead>
<tr>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons</th>
<th>Estimated Damage</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>19 0830EST 0945EST</td>
<td>00 0 25K</td>
<td>Flash Flood</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Rains of 2 to 3 inches fell in less than 3 hours. Creeks flooded roads and surrounded mobile homes. Routes 10 and 16 were affected in this vicinity. Fire fighters evacuated residents along Low Gap Hollow, as water threatened homes. In the aftermath, mud, rocks, and logs covered Route 16 in Low Gap Hollow.

Fayette County
Oak Hill to Scarbro

<table>
<thead>
<tr>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons</th>
<th>Estimated Damage</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 1500EST 1700EST</td>
<td>00 0 2K</td>
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</tr>
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</table>

Several roads were flooded and closed after 2 to 3 inches of rain. No evacuations occurred. Homes were not damaged.

Logan County
Blair

<table>
<thead>
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<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons</th>
<th>Estimated Damage</th>
<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>27 1310EST 1415EST</td>
<td>00 0 25K</td>
<td>Flash Flood</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Spruce Fork flooded after 2 to 3 inches of rain in 3 hours. Logan County Emergency Services said, an overflow of a coal sediment pond also created some standing water in basements and yards.

WISCONSIN, Extreme Southwest

NONE REPORTED.

WISCONSIN, Northeast

Vilas County
10 W Land O Lakes

<table>
<thead>
<tr>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons</th>
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<th>Character of Storm</th>
</tr>
</thead>
<tbody>
<tr>
<td>17 1520CST</td>
<td>00 0 0K</td>
<td>Thunderstorm Wind (G60)</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Thunderstorms developed in a warm and humid atmosphere along the outflow of an earlier thunderstorm. One of the storms uprooted eight 80 foot tall pine trees. Two of the trees landed on cabins and one destroyed a car.

Vilas County
Eagle River

<table>
<thead>
<tr>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons</th>
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<th>Character of Storm</th>
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</thead>
<tbody>
<tr>
<td>21 0230CST</td>
<td>00 0 0K</td>
<td>Thunderstorm Wind (G50)</td>
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</tbody>
</table>

Vilas County
Lac Du Flambeau

<table>
<thead>
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<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons</th>
<th>Estimated Damage</th>
<th>Character of Storm</th>
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<tbody>
<tr>
<td>21 0230CST</td>
<td>00 0 0K</td>
<td>Thunderstorm Wind (G50)</td>
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</table>

Oneida County
Lake Tomahawk to Minocqua

<table>
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<tr>
<th>Time Local/Standard</th>
<th>Path Length (Miles)</th>
<th>Path Width (Yards)</th>
<th>Number of Persons</th>
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</thead>
<tbody>
<tr>
<td>21 0340CST 0343CST</td>
<td>00 0 0K</td>
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</table>
A cold front moved into a hot, humid and unstable airmass across Wisconsin leading to the development of severe thunderstorms in the central and north central parts of the state. High winds tore the roof off a warehouse in Wausau, otherwise damage from the storms consisted mainly of downed trees and powerlines. As of noon the next day there were still 2,200 customers without power in north central Wisconsin according to a press release from a utility company. As many as 7,500 customers lost power at some time during the storms.

New record high temperatures were set at Appleton (Outagamie co.) 99 degrees; Antigo (Langlade co.), Sturgeon Bay (Door co.) and Manitowoc (Manitowoc co.) 97 degrees and at Green Bay (Brown co.) 96 degrees. Wausau tied its record high of 95 degrees.
### WISCONSIN, Northeast

Thunderstorms developed into a line as they entered a very unstable airmass over northern Wisconsin. These storms produced strong winds that downed numerous trees and power lines as they passed through north central Wisconsin. Heavy rains and large hail were also reported with the storms.

<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>Character of Storm</th>
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</table>

A thunderstorm complex that moved from southern Minnesota into a very unstable airmass over Wisconsin developed into a series of bow echoes that made their way across the state. Strong winds from these storms downed numerous trees and power lines as they moved through central and parts of north central Wisconsin. In western Marathon county a weather spotter for a local television station reported frequent wind gusts to 60 mph for about 10 minutes as the storms passed.

<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>Character of Storm</th>
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<td>1750CST</td>
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</table>
## Storm Data and Unusual Weather Phenomena

### July 2002

**Location**  
**Wisconsin, Northeast**

<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>Injured</th>
<th>Estimated Damage Property</th>
<th>Estimated Damage Crops</th>
<th>Character of Storm</th>
</tr>
</thead>
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<td>3 W (Cwa) Cen Wi Arpt 1822 CST</td>
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<td>3 W (Cwa) Cen Wi Arpt 1828 CST</td>
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<td>6 E Suring to Little Suamico 1925 CST</td>
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**Estimated Damage**

- **Property Damage**: Estimated damage to property is provided for each storm event.
- **Crops**: Damage to crops is also noted for each event.

**Character of Storm**

- **Tornado**: Storms that occurred as tornadoes are marked with the F scale for intensity.
- **Thunderstorm Wind**: Storms marked with G50, G55, etc., indicate wind speeds.
- **Hail**: Event marked with Hail indicates hailstone fell.

**M11CA**: Code indicating additional information or data source.
Thunderstorms moved through Wisconsin in very warm and unstable air ahead of a cold front. Severe thunderstorm winds and tornadoes downed trees and power lines and damaged buildings across a large swath of central, north central and east central Wisconsin. Thousands of trees and power lines were downed by high winds from the storms. An 11 year old Boy Scout was killed and another was seriously injured when trees landed on their tent at Camp Napowan (Waushara co.).

High winds pushed a house off its foundation and blew a boat and trailer into a neighbor’s yard near Merrill (Lincoln co.). Some downed trees damaged or destroyed buildings or vehicles when they fell. A church steeple was toppled by high winds and a tree landed on an SUV, boat and trailer in Neenah (Winnebago co.)

According to utility company news releases, nearly 20,000 customers were without power at some time during the storms. As of noon the next day there were still about 3,250 customers in the Green Bay (Brown co.) area without electricity.

The hardest hit areas appeared to be in Marathon, Lincoln, Shawano and Oconto counties. Three of the four confirmed tornadoes touched down in Lincoln county and the other touched down in Marathon county. A tornado that touched down 5 miles north of Merrill (Lincoln co.) skipped along the ground for 9 miles, destroying a barn and another structure, tearing roofs from some buildings and moving others from their foundations. Another tornado briefly touched down about 8.5 miles northeast of Merrill demolishing a mobile home and snapping trees and tree limbs. The other Lincoln county tornado touched down 10 miles northwest of Merrill and skipped along the ground for 1.25 miles. A tornado skipped along the ground for 2 miles in Mosinee (Marathon co.) causing significant tree damage on a hill east of the Wisconsin River.

### Storm Data and Unusual Weather Phenomena

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370
## Storm Data and Unusual Weather Phenomena

### July 2002

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### WISCONSIN, Southeast

WIZ046>047-051-056>060-062>072

- 01 0600 CST 0 0 0
- 03 1800 CST 0
- Excessive Heat

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371
A heat wave, which started on June 30, 2002, continued through the first three days of July, 2002, across south-central and southeast Wisconsin. Maximum temperatures were in the lower to mid 90s and overnight lows in the upper 60s to mid 70s, both about 10 to 15 degrees above normal. A 62-year-old City of Milwaukee man died due to secondary heat-related stress (indirect death). No other deaths were reported, however, dozens of people received first-aid treatment at various community festivals. Heat index values were in the 95 to 104 range. Milwaukee Mitchell Field recorded a minimum of 75 on July 3rd, tying the old record set back in 1965 and 1921.

A single-day heat wave affected a few counties in south-central and southeast Wisconsin, resulting in about a dozen people being treated for the affects of heat at local hospitals. Maximum temperatures were in the lower to mid 90s, and morning lows were in the lower 70s. Afternoon heat index values reached 105 to 108 for at least 3 hours in Rock, Walworth, Racine, and Kenosha counties, meeting the official threshold value for daytime heat indices which is 105 or higher for 3 hours or more. Elsewhere across south-central and southeast Wisconsin heat indices were in the 95 to 104 range. Southwest winds of 13 to 22 kts (15 to 25 mph) offered little relieve.

Flash flooding closed some roads and washed out some gravel shoulders on the south side of the city of Fond du Lac. Rainfall amounts of 3 to 5 inches were noted, based on WSR-88D estimates and spotter reports. Water depths on US Hwy 41 between 151 and 175 reached 4 to 5 feet.

A series of severe thunderstorms moved southeast through southeast Wisconsin with powerful winds that toppled trees and power lines, as well as damaging some structures. Damage to power lines resulted in the loss of electrical power to 12,000 customers in the Milwaukee area. Northwest of Beechwood (Sheboygan Co.), the winds destroyed one small metal shed, and rolled over a propane tank. Northeast of Oostburg (Sheboygan Co.), the powerful winds toppled dozens of trees near Kohler/Andrea State Park, and damaged a couple homes. In Washington County, a car and boat in Hartford were damaged by toppled trees, and a shed near Jackson was blown down. Heavy rains associated with training thunderstorm cells created urban flooding in the city of Kenosha when .71 inches of rain fell in only 11 minutes (at the rate of 5.07 inches per hour). Likewise, urban flooding developed in the city of Sheboygan when 1.81 inches of rain fell in 70 minutes ending at 1910CST (...and 3.57 inches in past 5 hours). Synoptically, a

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**Storm Data and Unusual Weather Phenomena**

**July 2002**

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<th>Location</th>
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mesoscale convective system moved southeast through Wisconsin overnight on the 7th and in the early morning hours of the 8th.

The trailing edge of this system brushed Sheboygan county with isolated severe weather at mid-day. The outflow boundary left over from the MCS focused new thunderstorm development between Fond du Lac and Milwaukee as the low-level jet intensified while a short-wave aloft moved through the area.

Excessive heat affected most of south-central and southeast Wisconsin on July 21st. This turned out to be the hottest day of the summer of 2002 for this area. Interestingly, no heat-related deaths were reported up to the initial time of the publication of this report. After overnight lows in the 70s, afternoon temperatures rose to the mid 90s to around 100, about 10 to 15 degrees above normal for the minimums, and 15 to 20 degrees above normal for the maximums. Afternoon heat indices generally peaked in the 105 to 110 range for several hours, but briefly hit 112 in Racine, Janesville, and Wisconsin Dells. Milwaukee Mitchell Field tied its daily high minimum of 78 degrees, set back in 1932. Locations to hit the century mark for maximum temperatures were: 101 in West Allis, and 100 at Mt. Mary College, both in Milwaukee County. Elsewhere, Delavan (Walworth Co.) and Richfield (Washington Co.) topped out at 100. Milwaukee Mitchell Field and Madison Truax Field peaked at 98.

An isolated severe thunderstorm pulsed up over Racine County, resulting in wind damage to some corn crop near Raymond, as well as some roof shingle damage to a few homes. In Milwaukee County, a 45-year-old male died from heat-related causes. The medical examiner indicated that heat was a secondary, or contributing cause of death (indirectly-related). This excessive heat heat event didn't meet the daytime heat index criteria, therefore it isn't an official excessive heat event. Maximum temperatures in Milwaukee County were only in the upper 80s to lower 90s, and heat indices were below 105.

Slow-moving thunderstorms over the city of Waukesha dumped 2.36 inches of rain from 2330CST on July 26th to 0110CST on July 27th, resulting in urban flooding. Water depths on some city streets reached 1 foot.

Scattered severe storms with large hail and damaging winds affected parts of south-central Wisconsin during the overnight hours. The storms were triggered by an old outflow boundary that pushed southeast from earlier convection in southeast Minnesota. Strong low-level warm-air advection fueled the storms, but fortunately, a cap prevented more widespread severe weather.

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WISCONSIN, Southeast
### WISCONSIN, Southeast

Marquette County  
3.6 NW Budsin  
30 2030CST  
0 0  
Thunderstorm Wind (G56)

A line of thunderstorms, some severe, developed along a cold front moving east across Wisconsin. Isolated severe weather resulted in the form of large hail and damaging winds. The powerful winds toppled trees and felled tree branches snapped several power lines. Maximum temperatures were in the lower 90s with surface dewpoints around 70.

### WISCONSIN, Southwest

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Rainfall totals of 3 to 6 inches caused localized flash flooding. Law enforcement officials reported an anhydrous ammonia tank floating in 2 to 3 feet of water near Beetown (Grant County).

### Storm Data and Unusual Weather Phenomena

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# Storm Data and Unusual Weather Phenomena

## July 2002

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<td>Winds estimated at 70 to 80 mph knocked down numerous trees and power lines. Some buildings sustained damaged in Abottsford (Clark County). A maple tree farm near Colby (Clark County) was hit hard by the severe winds, with an estimated 20 percent of the trees a total loss. In Adams County, a mobile home park was heavily damaged near the town of New Rome.</td>
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## WISCONSIN, West

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### Storm Data and Unusual Weather Phenomena

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**Additional Information:**
- Strong thunderstorms caused flash flooding across portions of southern Park County. The first area of flash flooding and damage was reported near Valley. Heavy rain washed out bridges and portions of gravel roads. Also, the heavy rain and runoff resulted in 4 to 5 feet of mud on the roads. The second area of flash flooding and damage occurred between Cody and Wapiti, along Rattlesnake Creek. A 10 foot wall of mud and rock slide through cabins. Also, 1.03 inches of rain fell in Wapiti. The third area of flash flooding and damage occurred west of Meeteetse, near Pitchfork Ranch and Poverty Flats. Two to three bridges were damaged, as well as a 200 yard long, 6 feet wide portion of a road. The Park County Emergency Manager estimated the damage from the flash flooding between $250,000 and $300,000.
- Windows were blown out of a house.
**WYOMING, Central and West**

Fremont County
- Riverton: 22/2100MST, 0-0, Thunderstorm Wind (G52)
  - A two by four piece of wood was blown through an automobile windshield.

Hot Springs County
- 5 E Grass Creek: 23/1355MST, 0-0, Hail(0.75)

Teton County
- Moose: 23/1510MST, 0-0, Hail(1.00)
- Moran: 23/1530MST, 0-0, Hail(0.75)
- 8 E Moran: 23/1600MST, 0-0, Hail(1.00)

Sweetwater County
- 27 S Rock Spgs: 26/1200MST, 0-0, Wild/Forest Fire
  - The Pepper Wildfire was started by lightning. The fire burned 1,027 acres.

**WYOMING, Extreme Southwest**

Uinta County
- Ft Bridger: 19/1345MST-1350MST, 0.5-20, 0-0, 0-0, Tornado (F0)
  - A small tornado was reported over open country near Fort Bridger, Wyoming. It remained over open country and dissipated, causing no damage.

**WYOMING, North Central**

Sheridan County
- Leiter: 17/2345MST, 0-0, Thunderstorm Wind (G60)

**WYOMING, Northeast**

Campbell County
- 3 S Gillette: 08/1625MST, 0-0, 0.50K, Thunderstorm Wind (G52)
- 3 E Gillette to 10 E Gillette: 08/1630MST-1645MST, 0-0, 70K, Thunderstorm Wind (G61)
  - A severe thunderstorm moved across Campbell County producing damaging winds. Straight line winds broke several large tree branches and blew over a shed 3 miles south of Gillette. Three miles east of Gillette a single wide mobile home was rolled onto a pickup truck. Another mobile home at the same location was moved three feet. Both of these mobile homes were at a sales lot, and were not tied down or secured in any way. Ten miles east of Gillette a trained spotter estimated winds at 70 mph.

Weston County
- 12 W Upton: 08/1703MST, 0-0-0, Thunderstorm Wind (G61)
  - Several 3-4 inch diameter tree branches were blown down.
- 14 NE Upton: 08/1802MST, 0-0-0, Hail(0.75)
- 16 NW Clareton: 18/2045MST, 0-0-0, Hail(1.75)
- 5 SE Alva to 3 S Beulah: 23/1955MST-2005MST, 0-0-0, Hail(0.75)
Storm Data and Unusual Weather Phenomena

July 2002

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<td>0</td>
<td>0</td>
<td>Hail(0.75)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Albany County</td>
<td>03</td>
<td>1600MST</td>
<td>1604MST</td>
<td>0</td>
<td>0</td>
<td>Hail(0.88)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon County</td>
<td>22</td>
<td>1715MST</td>
<td>1722MST</td>
<td>0</td>
<td>0</td>
<td>Hail(1.50)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Storm dropped large amounts of hail with sizes up to 1 1/2 inches. Heavy rain also occurred creating local areas of drifted hail as well as washing out a few rural roads.