

JULY 1983

VOLUME 25

NUMBER 7

# STORM DATA



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This publication is funded by the  
National Oceanic and Atmospheric Administration and the Federal Emergency Management Agency

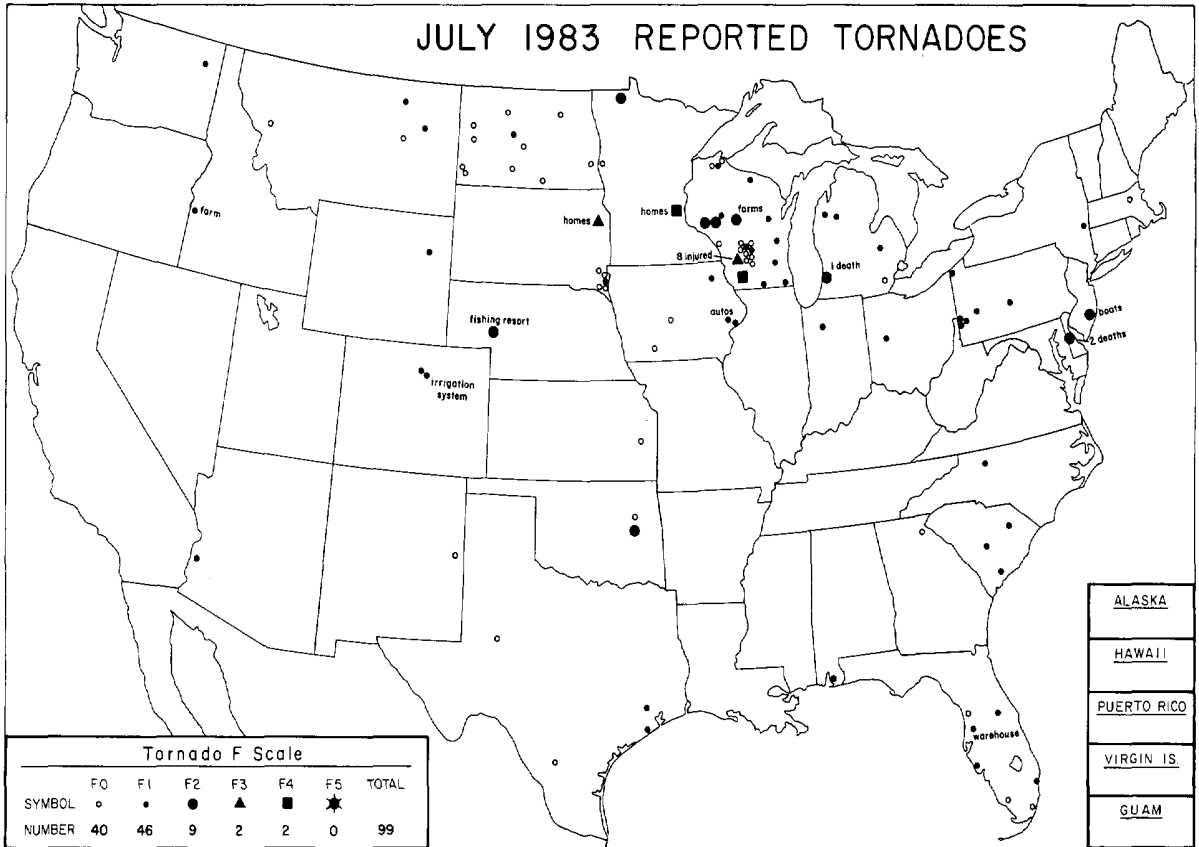
## C O N T E N T S

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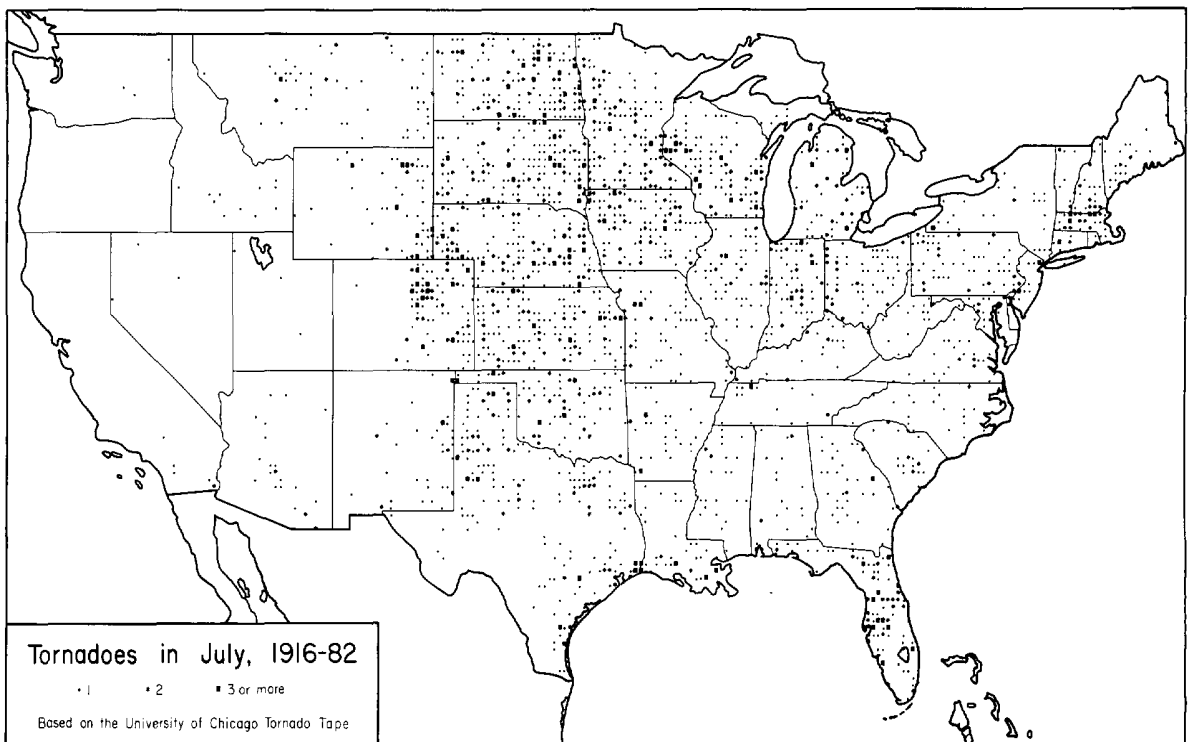
NOTE: The section on Outstanding Storms of the Month is prepared and edited by Professor T. Theodore Fujita, University of Chicago. The narrative descriptions of Storms by State and Summaries of Hurricanes and Tropical Storms are prepared by the National Weather Service. The National Climatic Data Center compiles the statistics on deaths, injuries, and damage. This publication contains our best information on storms, but, due to the difficulties inherent in collection of this type of data, it is not all-inclusive. Late Reports and Corrections will be carried quarterly.

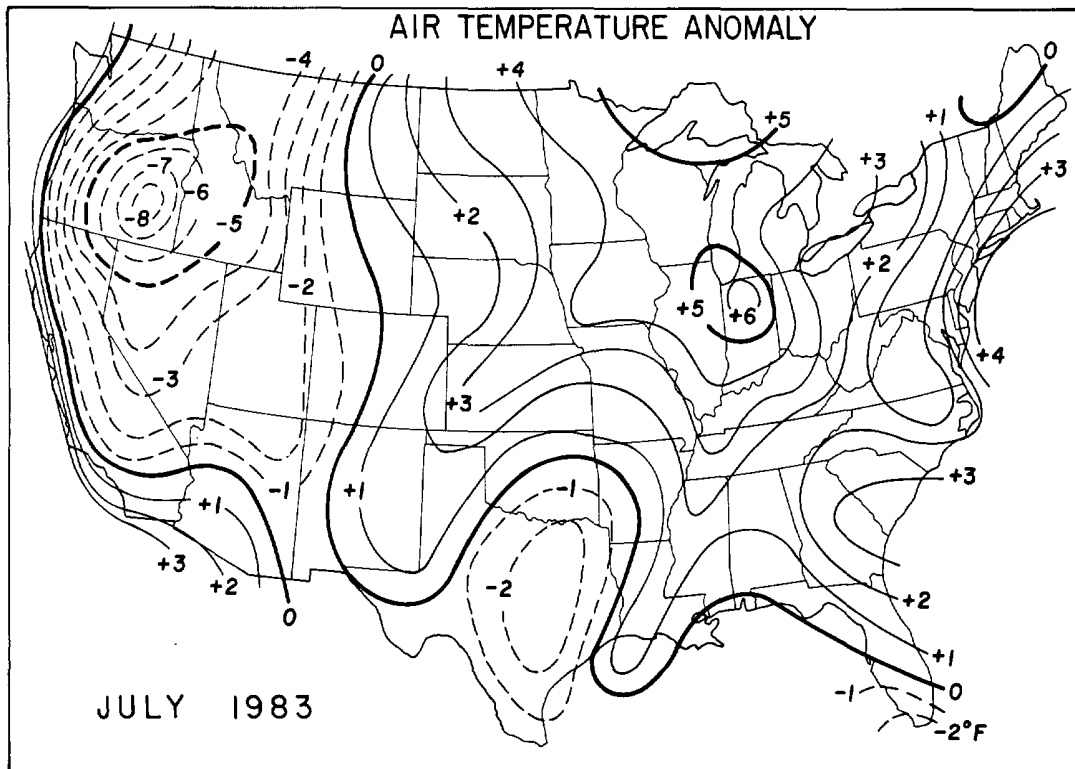
STORM DATA - (ISSN 0039-1972) is published monthly. Subscription, pricing, and ordering information is available from: Publications Section (E/CC413), The National Climatic Data Center, National Environmental Satellite, Data, and Information Service, NOAA, Federal Building, Asheville, NC 28801-2696.

# OUTSTANDING STORMS OF THE MONTH



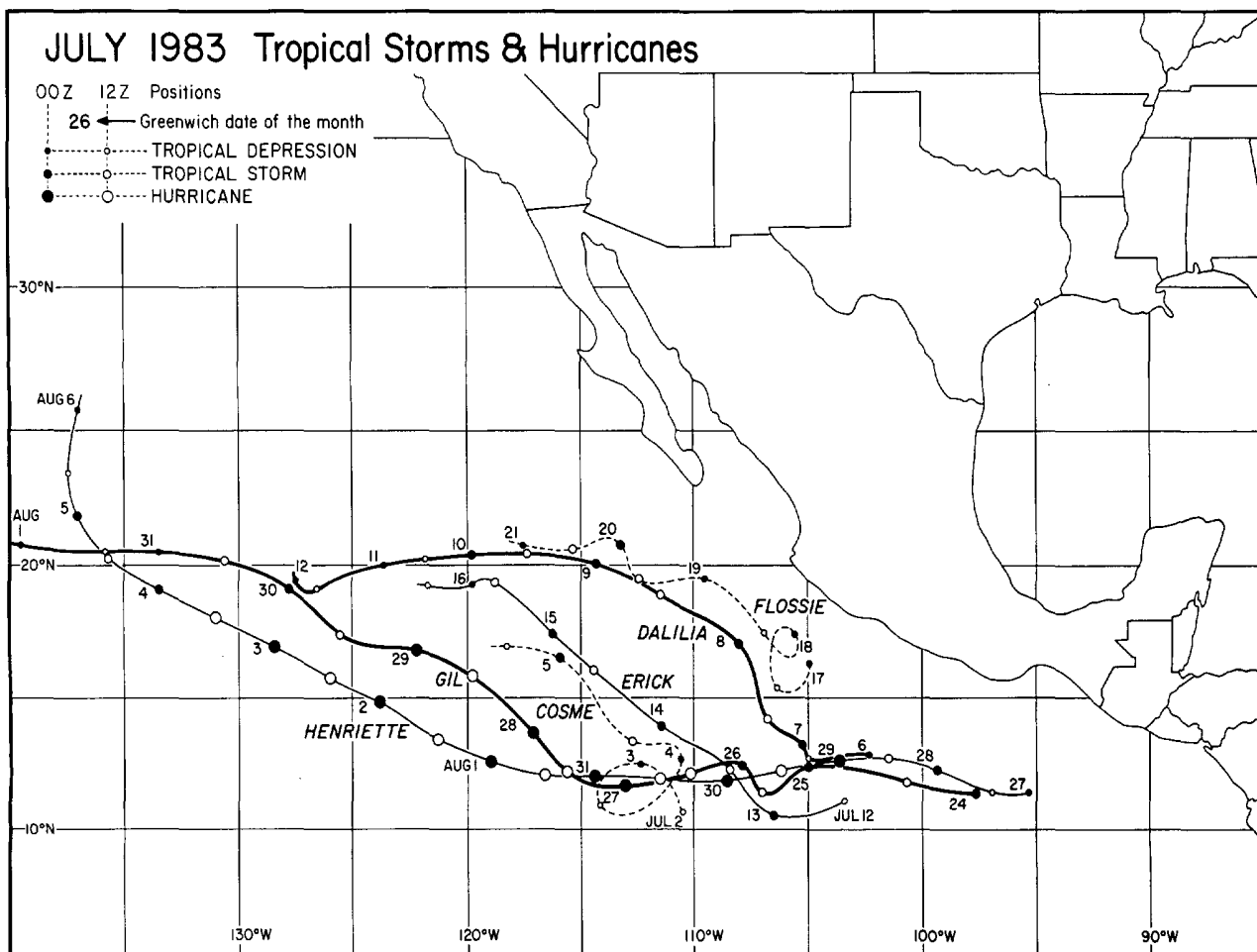
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|--|--|--------|--------|-----------|-----------|-----------|-----------|------------|--------|------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|--------|-----------|--------|-----------|--------|--------|----------|--------|--------|--------|-----------|-----------|-----------|--------|--------|----------|--------|--------|--------|-----------|-----------|-----------|--------|--------|-------|--------|--------|--------|--------|--------|--------|-----------|--|-------|--------|--------|--------|--------|--------|--------|-----------|--|
| <ul style="list-style-type: none"> <li>● COMPLETE REPORT RECEIVED</li> <li>○ PRELIMINARY REPORT RECEIVED</li> <li>○ REPORT NOT RECEIVED</li> </ul> <p>(N) northern (W) western<br/>         (S) southern (C) central<br/>         (E) eastern (O) coastal<br/>         (SE) southeastern</p> | <table style="width: 100%; border: none;"> <tr> <td>● 1AL</td><td>● 7DE</td><td>● 14KS</td><td>● 21MN</td><td>● 28NJ</td><td>● 33OH</td><td>● 39SD</td><td>● 44VA</td><td>● 49AK(SE)</td> </tr> <tr> <td>● 2AZ</td><td>● 8FL</td><td>● 15KY</td><td>● 22MS</td><td>● 29NM</td><td>● 34OK</td><td>● 40TN</td><td>● 45WA</td><td>● 50HI</td> </tr> <tr> <td>● 3AR</td><td>● 9GA</td><td>○ 16LA</td><td>● 23MO</td><td>● 30NY(O)</td><td>○ 35OR</td><td>○ 41TX(N)</td><td>● 46WV</td><td>● 51PR</td> </tr> <tr> <td>● 4CA(N)</td><td>● 10ID</td><td>● 17ME</td><td>● 24MT</td><td>● 30NY(C)</td><td>● 36PA(E)</td><td>● 41TX(S)</td><td>● 47WI</td><td>● 52VI</td> </tr> <tr> <td>● 4CA(S)</td><td>● 11IL</td><td>● 18MD</td><td>● 25NE</td><td>● 30NY(W)</td><td>● 36PA(W)</td><td>● 41TX(W)</td><td>● 48WY</td><td>● 53PC</td> </tr> <tr> <td>● 5CO</td><td>● 12IN</td><td>● 19MA</td><td>● 26NV</td><td>● 31NC</td><td>● 37RI</td><td>● 42UT</td><td>● 49AK(N)</td><td></td> </tr> <tr> <td>● 6CT</td><td>● 13IA</td><td>● 20MI</td><td>● 27NH</td><td>● 32ND</td><td>● 38SC</td><td>● 43VT</td><td>● 49AK(S)</td><td></td> </tr> </table> | ● 1AL  | ● 7DE  | ● 14KS    | ● 21MN    | ● 28NJ    | ● 33OH    | ● 39SD     | ● 44VA | ● 49AK(SE) | ● 2AZ | ● 8FL | ● 15KY | ● 22MS | ● 29NM | ● 34OK | ● 40TN | ● 45WA | ● 50HI | ● 3AR | ● 9GA | ○ 16LA | ● 23MO | ● 30NY(O) | ○ 35OR | ○ 41TX(N) | ● 46WV | ● 51PR | ● 4CA(N) | ● 10ID | ● 17ME | ● 24MT | ● 30NY(C) | ● 36PA(E) | ● 41TX(S) | ● 47WI | ● 52VI | ● 4CA(S) | ● 11IL | ● 18MD | ● 25NE | ● 30NY(W) | ● 36PA(W) | ● 41TX(W) | ● 48WY | ● 53PC | ● 5CO | ● 12IN | ● 19MA | ● 26NV | ● 31NC | ● 37RI | ● 42UT | ● 49AK(N) |  | ● 6CT | ● 13IA | ● 20MI | ● 27NH | ● 32ND | ● 38SC | ● 43VT | ● 49AK(S) |  |
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| ● 2AZ  | ● 8FL  | ● 15KY | ● 22MS | ● 29NM    | ● 34OK    | ● 40TN    | ● 45WA    | ● 50HI     |        |            |       |       |        |        |        |        |        |        |        |       |       |        |        |           |        |           |        |        |          |        |        |        |           |           |           |        |        |          |        |        |        |           |           |           |        |        |       |        |        |        |        |        |        |           |  |       |        |        |        |        |        |        |           |  |
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| ● 4CA(S)   | ● 11IL   | ● 18MD | ● 25NE | ● 30NY(W) | ● 36PA(W) | ● 41TX(W) | ● 48WY    | ● 53PC     |        |            |       |       |        |        |        |        |        |        |        |       |       |        |        |           |        |           |        |        |          |        |        |        |           |           |           |        |        |          |        |        |        |           |           |           |        |        |       |        |        |        |        |        |        |           |  |       |        |        |        |        |        |        |           |  |
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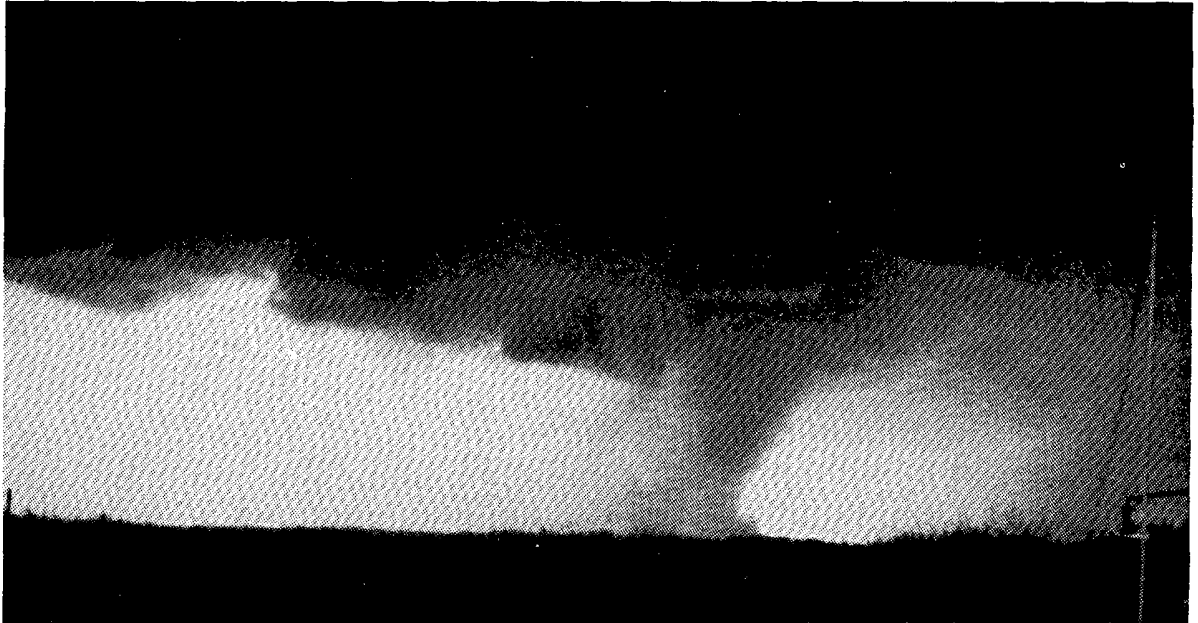
---Data base from NOAA/USDA Joint Agricultural Weather Facility.

## TROPICAL STORMS AND HURRICANES



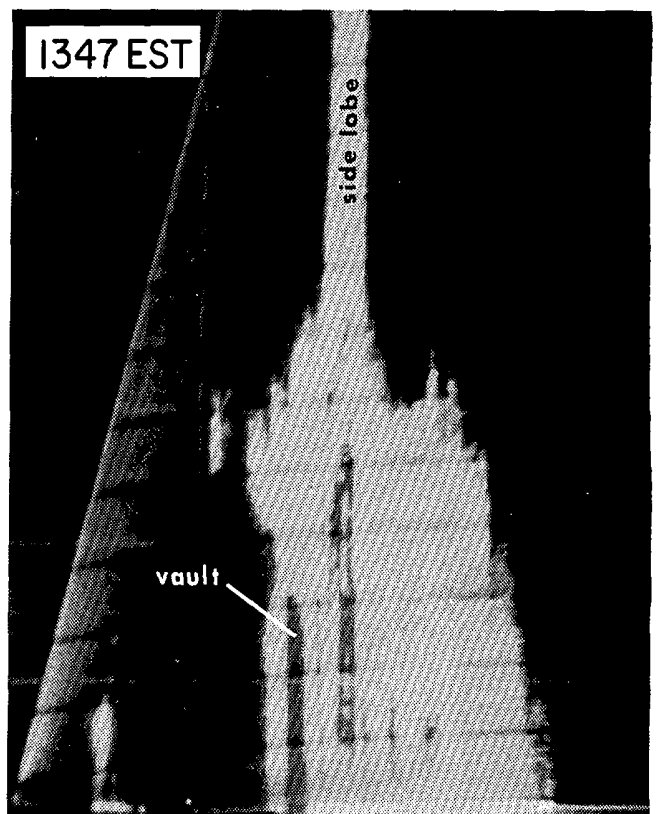
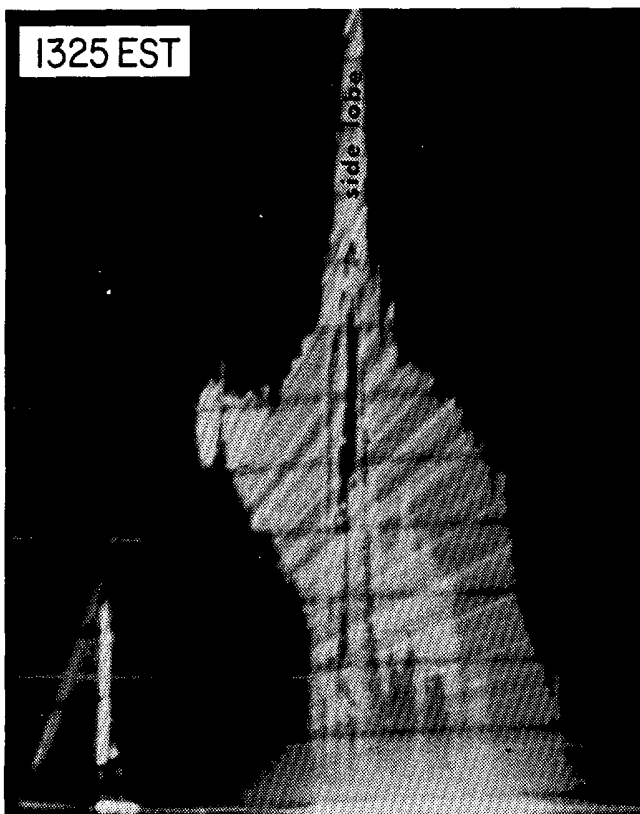
1. TORNADO near COLEHARBOR, NORTH DAKOTA on July 1, 1983

On July 1st, this tornado was photographed 5 miles west of Coleharbor, North Dakota by Jim Riggle, NWSFO Bismarck, ND. The tornado touched down in open country and no damage was reported.



2. TORNADO at RURAL VALLEY, PENNSYLVANIA on July 20, 1983

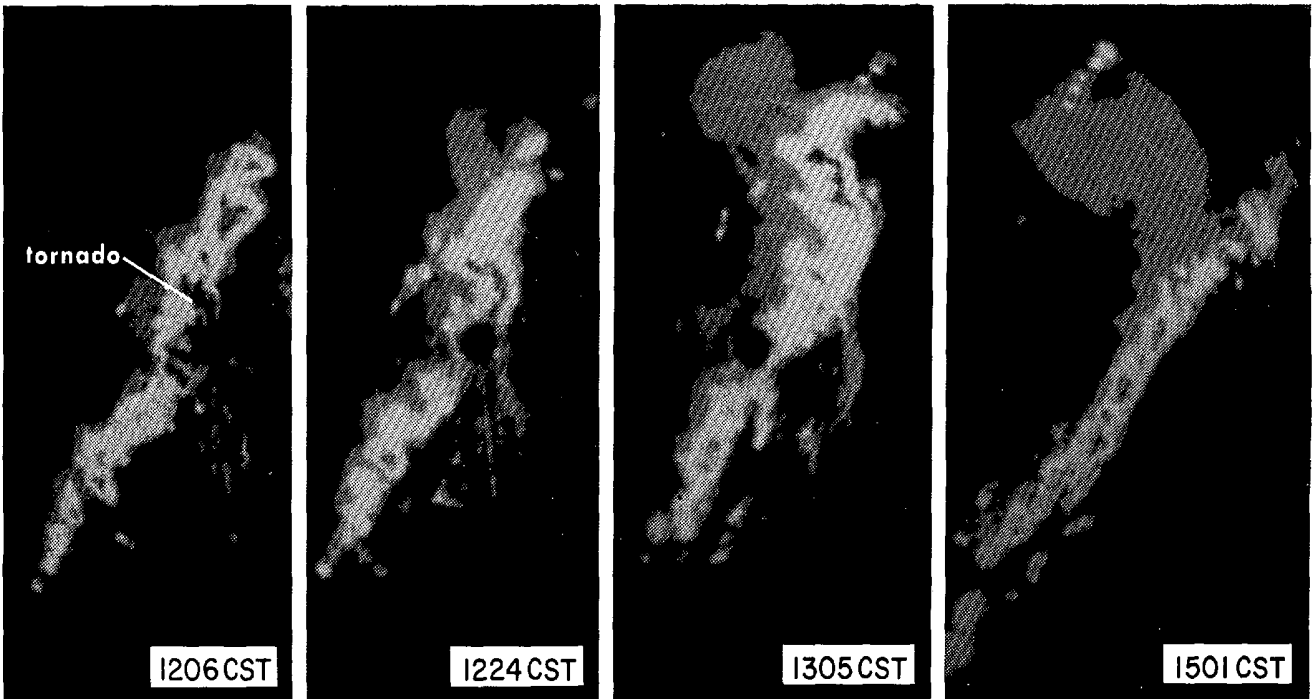
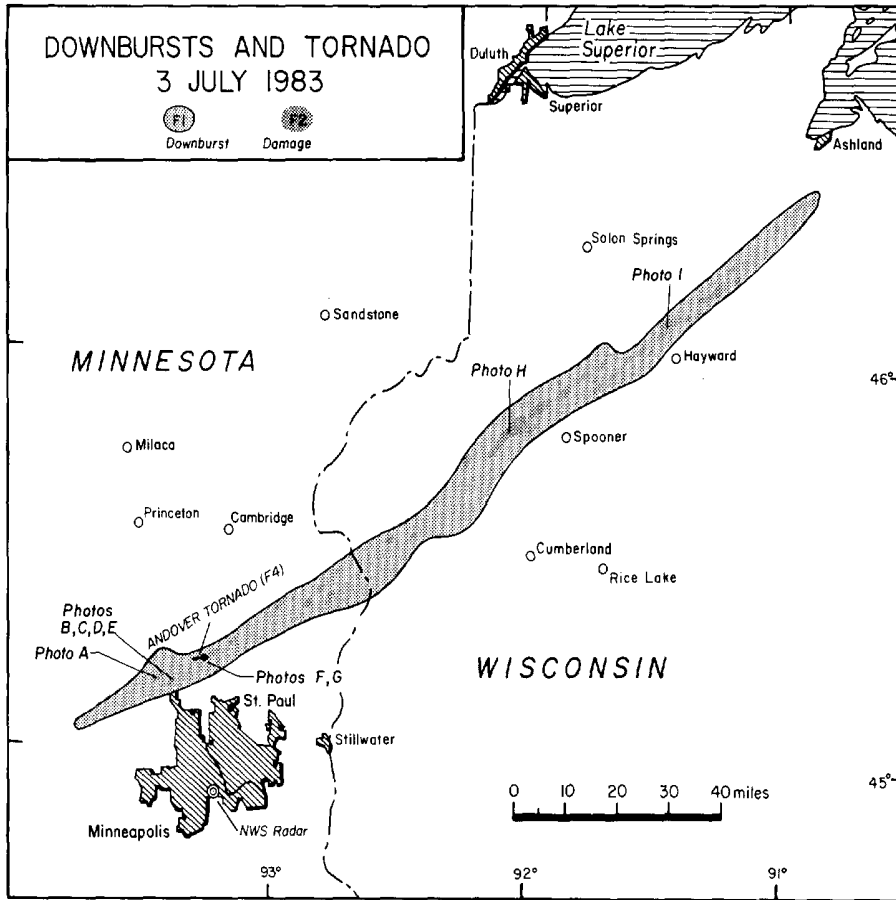
On July 20th, the Pittsburgh NWSFO issued its first tornado warning based only on RHI (vertical scan) data from its WSR57M radar. The photos below show vertical cross sections of the thunderstorm as it appeared on the RHI scope. An echo-free vault, often associated with a "hook echo" on the PPI scope, was detected (right photo). The warning was issued at 1338 EST, and at 1415 EST, a tornado struck Rural Valley, 10 miles east of Kittaning, PA. No well-defined "hook echo" ever appeared on the PPI scope. ---Photos by Wayne Rumburg, NWSFO Pittsburgh, Pennsylvania.





UPPER MIDWEST WINDSTORMS ---- continued

Illustrated below is a path of downburst damage which was surveyed from a Cessna 172 by Brian Smith of the University of Chicago on July 5th through 7th. Areas of F1 (73-112 mph) estimated winds are shown in light grey shading, and F2 (113-157 mph) are in dark grey. Locations of the Andover Tornado and photos to follow are shown.



A Minneapolis radar sequence showing the line of downburst-producing storms at: 1206CST, the time of the Andover Tornado; 1224CST, when a pronounced "bow echo" is visible; 1305CST, when the bow echo and associated downburst activity have expanded; and 1501CST; after the downburst cells have dissipated and a large comma echo is present.

UPPER MIDWEST WINDSTORMS ---- continued



Photos of downburst damage at Anoka, Minnesota, just northwest of Minneapolis, showing (A) a fan of debris emanating from what was once a shed, (B) the peeled-off roof of a shopping center, and (C) a destroyed home from which the roof was blown over another home and into a nearby field where it disintegrated on impact.



Photos (D) and (E) are enlargements of areas in photo (C) above.

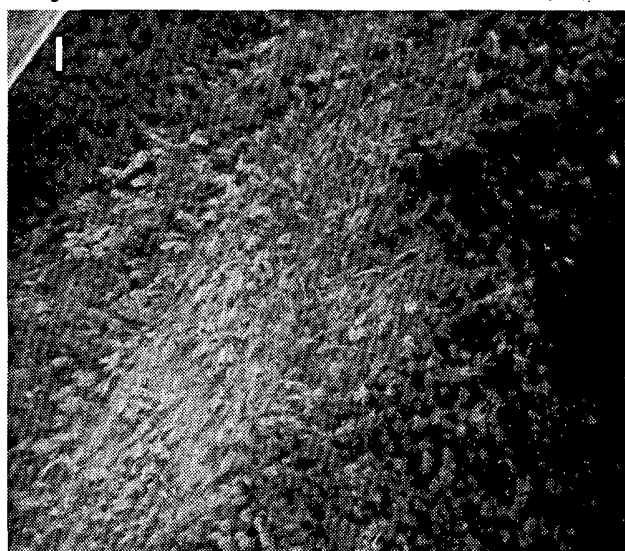
---All photos by Brian Smith, University of Chicago.



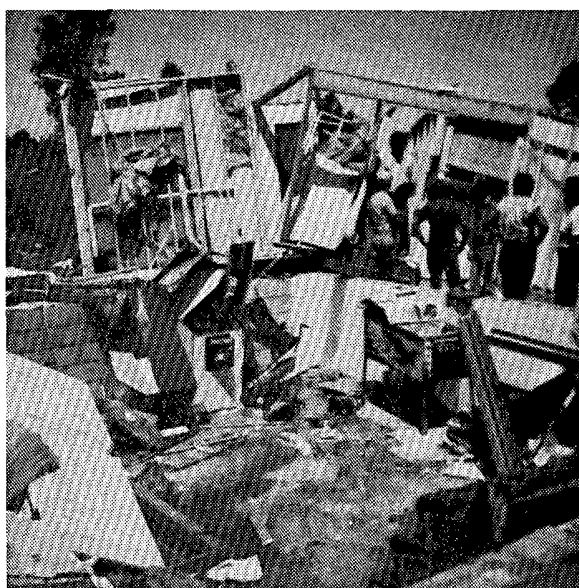
UPPER MIDWEST WINDSTORMS ---- continued



Samples of damage from the Andover, Minnesota Tornado. In photo (F), the homes on one side of the street lost their roofs while similar homes on the opposite side were spared. The home in photo (G) depicts F4 damage (estimated winds of 207-260 mph).



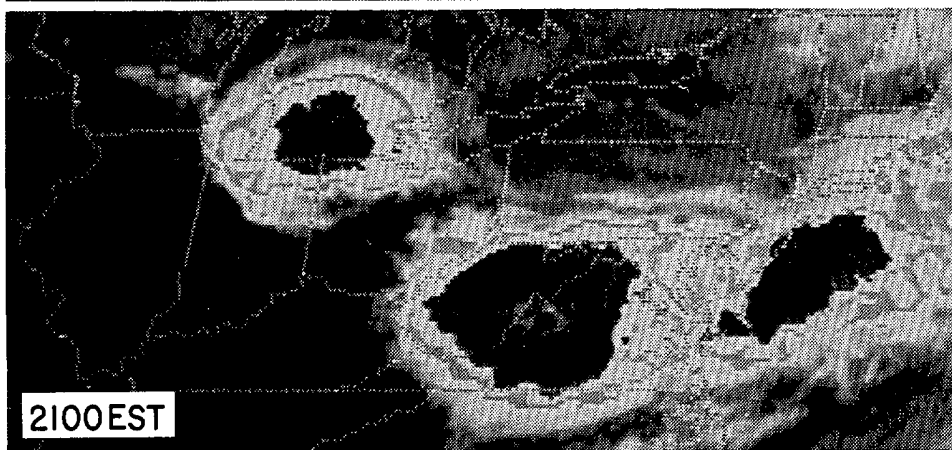
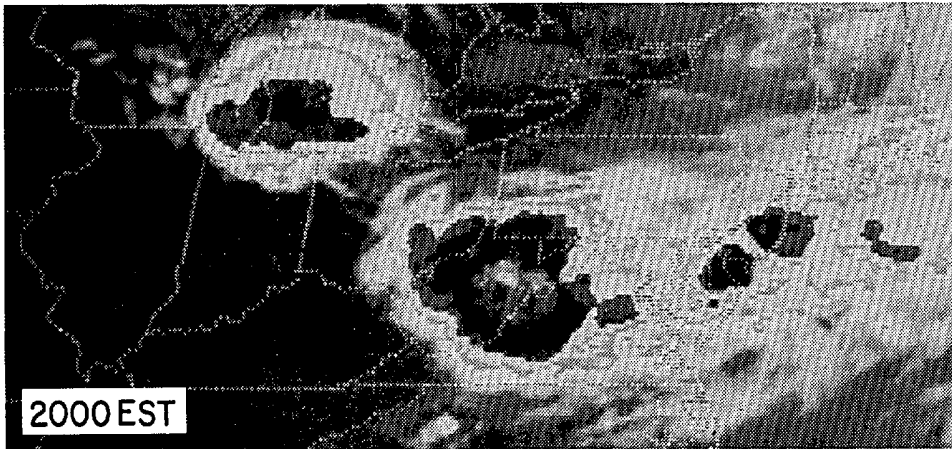
Photos (H) and (I) show downburst damage to trees in Wisconsin near Spooner and Hayward, respectively. ---All above photos by Brian Smith, University of Chicago.



At left is the remains of a Westby home in southwestern Wisconsin after downburst winds, also from the July 3rd storms, blew it from its foundation. ---Photo supplied by NWSFO Milwaukee, Wisconsin.

#### 4. THUNDERSTORMS in the NORTHEAST on July 21, 1983

The infrared satellite pictures below show three areas of strong thunderstorm activity which occurred in the Northeast on the evening of July 21st. The storms produced widespread wind damage, including downbursts and tornadoes in portions of Michigan, Indiana, Ohio, Pennsylvania, West Virginia, Maryland, Virginia, Delaware, and New Jersey. ---Photos provided by Linwood F. Whitney, Jr., NESDIS.



#### 5. THUNDERSTORM WINDS at SHELBY, MICHIGAN on July 29, 1983

Depicted below is wind damage from a thunderstorm at Shelby, Michigan on the morning of July 29th. The storm was one of several which produced widespread wind damage in southern Michigan. ---Photos by Lois Stevenson, NWSO Muskegon, Michigan.



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |

## 1 ALABAMA

|                                   |    |           |    |    |   |   |   |   |              |  |
|-----------------------------------|----|-----------|----|----|---|---|---|---|--------------|--|
| Sylvania, DeKalb County           | 01 | 1250CST   |    |    | 0 | 0 | 3 | 0 | Wind         | Thunderstorm winds damaged a home.   |
| Henagar, DeKalb County            | 01 | 1305CST   |    |    | 0 | 0 | 0 | 0 | Wind         | Several trees were reported to have been blown down and outbuildings damaged by thunderstorm winds. Small hail was also reported.  |
| Hokes Bluff, Etowah County        | 01 | 1419CST   |    |    | 0 | 0 | 2 | 0 | Wind         | Trees downed by thunderstorm winds blocked U.S. 278. Marble size hail was also reported.   |
| Gadsden, Etowah County            | 01 | 1445CST   |    |    | 0 | 0 | 3 | 0 | Wind         | Several power lines were reported down over the western part of Gadsden following the passage of a severe thunderstorm.  |
| Mobile, Mobile County             | 05 | 1800CST   |    |    | 0 | 0 | ? | 0 | Hail         | Hail to about one inch in diameter reported.   |
| Haleyville, Winston County        | 13 | 1530CST   |    |    | 1 | 1 | 0 | 0 | Lightning    | A 26 year old man was killed by lightning and another man was injured while underneath a mobile home where they had sought shelter from the rain. A small dog that was with them was not harmed. The men had been preparing the mobile home for occupancy and the electrical service had not been connected. The mobile home was on a sloping lot in a relatively clear area. There was one tree nearby but other trees were some 30 yards away. The two men apparently had begun to move out from underneath the home when the bolt hit. The survivor reported that he had his arm on the structure and the charge went down his arm and "felt like fire". Both men appeared to be okay at the moment. The man that was killed told his companion that he was okay, but quickly became very ill and was pronounced dead on arrival at a local hospital. |
| Cuba area, Sumter County          | 16 | 1450CST   |    |    | 0 | 0 | 3 | 0 | Wind         | Thunderstorm winds unroofed a house, destroyed a shed and blew down several trees.   |
| Selma area, Dallas County         | 16 | 1730CST   |    |    | 0 | 0 | 4 | 0 | Thunderstorm | Some trees and power lines were downed by strong winds and lightning strikes resulted in several small fires.  |
| Birmingham area, Jefferson County | 17 | Afternoon |    |    | 0 | 0 | 4 | 0 | Lightning    | Lightning was the apparent cause of a fire that damaged a home. Several other lightning strikes were reported in the area with damage mainly to electrical systems.  |
| Birmingham area, Jefferson County | 17 | 1230CST   |    |    | 0 | 0 | 4 | 0 | Wind         | Strong winds caused tree and power line damage. Marble size hail was reported in the Center Point-Roebuck area.  |
| Crossville area, DeKalb County    | 17 | 1320CST   |    |    | 0 | 0 | 3 | 0 | Thunderstorm | A severe thunderstorm produced hail larger than golf ball size and lightning set a house on fire.  |
| Talladega area, Talladega County  | 17 | 1330CST   |    |    | 1 | 0 | 0 | 0 | Lightning    | A 19 year old man was killed when hit by lightning while standing on the metal roof of a pump house along the Coosa River. The lightning struck a steel pole that the man was leaning against and the victim fell into the water.  |
| Boaz area, Marshall County        | 17 | 1358CST   |    |    | 0 | 0 | 4 | 0 | Lightning    | Lightning strikes resulted in two fires that destroyed a garage roof and a farm building that contained a truck, tractor and other items.  |
| Clay County                       | 17 | 1430CST   |    |    | 0 | 0 | ? | 0 | Hail         | Hail a little larger than marble size, strong wind and torrential rain were reported southwest of Ashland.   |
| Aliceville area, Pickens County   | 18 | 1440CST   |    |    | 0 | 0 | ? | 0 | Wind         | Thunderstorm winds downed several large trees and marble size hail was reported.   |
| Robertsdale, Baldwin County       | 18 | 1845CST   |    |    | 0 | 0 | 3 | 0 | Thunderstorm | Some trees and power lines were reported to have fallen across power lines during a severe thunderstorm. Intense lightning also damaged electrical systems and water lines.  |
| Robertsdale, Baldwin County       | 20 | 1545CST   | .2 | 50 | 0 | 0 | 3 | 0 | Tornado (F1) | A small tornado briefly touched down in northeast Robertsdale. Witnesses reported a swirling debris cloud accompanied by a loud roar. There was extensive tree damage in the sparsely populated area and two structures were struck by falling trees.  |
| Mobile, Mobile County             | 20 | 1630CST   |    |    | 0 | 0 | 3 | 0 | Lightning    | Lightning struck the electrical panel in a home and the resulting fire caused extensive damage to the structure.   |

## ALABAMA

|                              |    |         |  |  |   |   |   |   |           |   |
|------------------------------|----|---------|--|--|---|---|---|---|-----------|---|
| Wicksburg, Houston County    | 20 | 1710CST |  |  | 0 | 0 | 3 | 0 | Wind      | The roof of a building was reported to have been blown off by thunderstorm winds.   |
| Flomaton, Escambia County    | 20 | 1815CST |  |  | 0 | 0 | 4 | 0 | Lightning | Lightning cut a gash almost the entire length of a church steeple. A small fire resulted but was quickly extinguished and there were no injuries to the congregation. |
| Abbeville area, Henry County | 25 | 1130CST |  |  | 0 | 0 | 3 | 0 | Lightning | Fifteen head of cattle were killed by a lightning strike.   |
| Andalusia, Covington County  | 26 | Aftn    |  |  | 0 | 0 | 2 | 0 | Wind      | Thunderstorm winds downed some trees and power lines.   |

## 2 ARIZONA

|                                 |    |               |     |    |   |   |   |   |                                    |   |
|---------------------------------|----|---------------|-----|----|---|---|---|---|------------------------------------|---|
| Wellton, Yuma County            | 31 | 1630MST       |     |    | 0 | 1 | 0 | 0 | Thunderstorm, Lightning            | A man struck by lightning and thrown about 10 feet was taken to Yuma Regional Medical Center and by the next morning reported in stable condition.  |
| Quarrrzsite, Yuma County        | 31 | 1645MST       | 0.2 | 20 | 0 | 0 | 3 | 0 | Tornado (F1)                       | A small tornado formed during a severe thunderstorm picking up and mangling a thousand pound chicken coop.  |
| Yuma, Yuma County               | 31 | 1700-1800 MST |     |    | 0 | 0 | 5 | 0 | Thunderstorm, Wind, Heavy Rain     | A severe thunderstorm with winds estimated to around 70 MPH, heavy rain and small hail hit the eastern sections of Yuma eastward. There was damage to roofs, trailers, power lines and fences. No major injuries were noted.                  |
| Gilbert, Maricopa County        | 31 | 1830MST       |     |    | 0 | 0 | 4 | 0 | Thunderstorm, Wind                 | A thunderstorm with winds around 50MPH snapped seven high-voltage power lines and damaged a few trailers. No injuries were noted.   |
| Chandler, Maricopa County       | 31 | 1900MST       |     |    | 0 | 2 | 4 | 0 | Thunderstorm, Wind                 | A thunderstorm with winds over 50MPH did some damage to power lines and small trailers. A small trailer was lifted by the wind and dumped onto an auto, briefly trapping two occupants. Both sustained cuts and bruises.                      |
| Lake Havasu City, Mohave County | 31 | 1945-2015 MST |     |    | 0 | 1 | 5 | 0 | Thunderstorm, Flash Flooding, Wind | A violent thunderstorm with winds up to 65MPH flattened buildings, smashed store-front windows, downed power lines and uprooted hundreds of trees. Flooding caused broken gas pipes and water mains. One person was injured by flying debris. |

## 3 ARKANSAS

|                         |    |          |  |  |   |   |   |   |                     |   |
|-------------------------|----|----------|--|--|---|---|---|---|---------------------|---|
| Pulaski County          | 01 | 1630 CST |  |  | 0 | 0 | 4 | - | Wind                | Half of a double-wide mobile home was blown off Interstate 40 close to the Faulkner-Pulaski County line by a thunderstorm gust.   |
| Millwood Lake Reservoir | 01 | 1800 CST |  |  | 0 | 4 | 3 | - | Severe Thunderstorm | A family of four went through a 13-hour ordeal Friday evening into Saturday. They were on their fishing boat which capsized from high waves. All four received lacerations from hanging on to logs for such a long time, as several storms kept going across the reservoir during the night. All of them were suffering from shock. |
| Hempstead County        | 01 | 1915 CST |  |  | 0 | 0 | 4 | - | Severe Thunderstorm | A severe thunderstorm moved through the City of Hope, knocking down trees and power lines. Several homes were damaged by fallen trees. One mobile home was wrapped around a tree.   |
| Howard County           | 01 | 1930 CST |  |  | 0 | 0 | 4 | - | Lightning           | An unoccupied home in Nashville was set on fire by lightning.   |
| Nevada County           | 01 | 2030 CST |  |  | 0 | 0 | 3 | - | Wind                | A strong thunderstorm gust blew off part of the roof at a Prescott restaurant. Many trees and power lines were knocked down. Homes and vehicles were damaged by falling trees.  |

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JULY 1983

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |

| — ARKANSAS  |                    |   |   |   |   |                      |  |  |  |
|---|--------------------|---|---|---|---|----------------------|--|--|--|
| Howard County   | 02 0000 - 0830 CST | 1 | 1 | 5 | ? | Flash Flood          |  |  |  |
| <p>Heavy rains from several thunderstorms in the area caused major flooding across the county and other parts of Southwest Arkansas. Rains began early evening Friday, the 1st, and continued until early morning Saturday. Five children, ages 3-8, were swept downstream along a creek after the truck they were in was washed off the road. The adult in the car was able to get out of the vehicle and go for help. The time was approximately 0217 CST. During the rescue, a police captain from Nashville was washed downstream and found hanging onto a tree about 0430 CST. About 30 homes were flooded in Nashville, as well as businesses and public buildings. Several bridges were washed out completely throughout the county. A 74-year old woman drowned about 0630 CST, 2 miles south of Mineral Springs after she attempted to cross the bridge on Highway 355. She was not aware that the bridge had been washed out. Downtown Dierks also flooded. Rainfall across the area ranged around 9 inches. Many homes were evacuated.</p> |                    |   |   |   |   |                      |  |  |  |
| Pike County   | 02 0100 CST        | 0 | 0 | 5 | ? | Flash Flood          |  |  |  |
| <p>Urban flooding due to heavy rains occurred in Murfreesboro. Between 75 and 80 persons were evacuated. Pike County Hospital had water inside it up to 2 inches deep. Flooding in rural areas killed 10,000 chickens. One bridge and five large culverts were destroyed.</p>   |                    |   |   |   |   |                      |  |  |  |
| Little River County   | 02 0130 - 0800 CST | 0 | 0 | 5 | - | Flash Flood          |  |  |  |
| <p>Heavy thunderstorms moved through the county late Friday, 1 July, and early Saturday. Flooding started in the early hours on the 2nd. Many roads were washed out, and at least 4 bridges were heavily damaged. About 18 families were evacuated in Ashdown. Flooding was also reported in Foreman.</p>   |                    |   |   |   |   |                      |  |  |  |
| Sevier County   | 02 0200 - 0800 CST | 0 | 1 | 5 | ? | Flash Flood          |  |  |  |
| <p>A batch of heavy thunderstorms moved through the county and adjacent parts of southwest Arkansas. Six persons were evacuated out of low areas in De Queen. One nearly fatal injury occurred at Walnut Springs when a pickup truck was washed off the road into a creek. Every small stream in the county was reported out of its banks at some point. An estimated 20-25 bridges throughout the county were completely destroyed or heavily damaged. A plywood manufacturing company in De Queen was heavily damaged by water 2 feet deep. Campers at 3 area camp sites had to be evacuated.</p>   |                    |   |   |   |   |                      |  |  |  |
| Little River County   | 02 0320 CST        | 1 | 0 | 5 | - | Lightning            |  |  |  |
| <p>An elderly man died in a house fire at Ashdown. The fire was started by a lightning strike on the residence.</p>   |                    |   |   |   |   |                      |  |  |  |
| Sebastian County  | 02 0430 CST        | 0 | 1 | 3 | - | Heavy Rain           |  |  |  |
| <p>A car was swept off Arkansas Highway 22 in Barling by rapidly rising water. The woman occupant would have drowned had the incident not been observed by a truck driver passing by. The truck driver dove into the water after the woman, injuring his back during the rescue.</p>  |                    |   |   |   |   |                      |  |  |  |
| Sevier County   | 02 0630 CST        | 0 | 0 | 4 | - | Lightning            |  |  |  |
| <p>A residence was completely consumed by fire, which was started by a lightning strike. The home was located in the King Community. Occupants were unharmed.</p>   |                    |   |   |   |   |                      |  |  |  |
| Logan County  | 02 1230 CST        | 0 | 0 | 4 | - | Severe Thunder-Storm |  |  |  |
| <p>A heavy thunderstorm moved through Booneville causing localized flooding from an estimated 9 inch rain. Strong winds blew down many trees which damaged homes and automobiles.</p>   |                    |   |   |   |   |                      |  |  |  |
| Independence County   | 04 1830 CST        | 0 | 0 | 3 | - | Lightning            |  |  |  |
| <p>Lightning caused structural damage to a residence in the Allen Chapel Community, near Southside.</p>   |                    |   |   |   |   |                      |  |  |  |
| Conway County   | 04 2000 CST        | 0 | 0 | 3 | - | Lightning            |  |  |  |
| <p>Lightning struck a storage shed next to a home in Plumerville. The building and contents were a complete loss.</p>   |                    |   |   |   |   |                      |  |  |  |
| Perry County  | 13 1400 CST        | 1 | 0 | - | - | Lightning            |  |  |  |
| <p>A 4-man survey crew was working near Perryville when a thunderstorm approached. Lightning struck near the men, killing one of them. The victim was carrying a large (200 ft.) metal chain used in their work.</p>  |                    |   |   |   |   |                      |  |  |  |
| Saint Francis County  | 18 1600 CST        | 0 | 0 | 4 | - | Heavy Rain           |  |  |  |
| <p>about<br/>Heavy rains produced urban flooding in Forrest City. Several homes and businesses were flooded. In some instances, water was one foot deep in some stores.</p>   |                    |   |   |   |   |                      |  |  |  |

| — ARKANSAS  |                    |   |   |   |   |                      |  |  |  |
|---|--------------------|---|---|---|---|----------------------|--|--|--|
| Washington County   | 25 about 1300 CST  | 0 | 0 | 4 | - | Severe Thunder-storm |  |  |  |
| <p>A thunderstorm caused damages to some buildings and knocked down trees in Springdale. A local radio station reported clocking winds at 60 MPH. Lightning struck a residence causing minor damage in the furnace. About 1.5 inches of rain fell during passage of the storm: localized urban flooding resulted.</p> |                    |   |   |   |   |                      |  |  |  |
| Monroe County   | 26 0400 - 0800 CST | 0 | 0 | 4 | - | Flash Flood          |  |  |  |
| <p>Rainfall in the range of 4 inches fell over parts of Clarendon. Several buildings were flooded.</p>  |                    |   |   |   |   |                      |  |  |  |
| Jefferson County  | 26 about 0930 CST  | 0 | 0 | ? | - | Flash Flood          |  |  |  |
| <p>A 4 1/2-inch rain in the Pine Bluff area caused urban flooding. Ten different streets and intersections were closed to traffic because of high waters.</p>   |                    |   |   |   |   |                      |  |  |  |
| Benton County   | 26 1600 CST        | 0 | 0 | 5 | - | Wind                 |  |  |  |
| <p>Strong outflow from a thunderstorm heavily damaged four chicken houses and uprooted trees on a farm in Highfill. About 7,000 chicks were inside the poultry houses, but only a few of them survived.</p>   |                    |   |   |   |   |                      |  |  |  |
| Desha County  | 27 1739 CST        | 0 | 0 | - | - | Funnel Cloud         |  |  |  |
| <p>An Arkansas State Police Trooper saw a funnel cloud just northwest of Dumas.</p>   |                    |   |   |   |   |                      |  |  |  |
| Craighead County  | 27 2035 CST        | 0 | 0 | 5 | - | Lightning/Heavy Rain |  |  |  |
| <p>Brief urban flooding occurred over the western portions of Jonesboro. Roughly, one inch of rain came down in one hour from a thunderstorm. Lightning caused structure damage and started small fires at 4 Jonesboro residences.</p>  |                    |   |   |   |   |                      |  |  |  |
| Garland County  | 29 1347 CST        | 0 | 2 | - | - | Lightning            |  |  |  |
| <p>A man and a young boy were injured slightly by lightning. The strike did not make direct contact with either of them. The incident occurred at a camping site at Brady Mountain Lodge on Lake Ouachita.</p>  |                    |   |   |   |   |                      |  |  |  |
| Benton County   | 31 1430 CST        | 0 | 0 | 3 | - | Wind                 |  |  |  |
| <p>Minor damages occurred at Hiwassee from thunder-storm winds. Some trees were uprooted and limbs were knocked down. Some roofing shingles were blown off.</p>   |                    |   |   |   |   |                      |  |  |  |
| <b>4 CALIFORNIA, Northern — NONE REPORTED</b>   |                    |   |   |   |   |                      |  |  |  |
| <b>4 CALIFORNIA, Southern — NONE REPORTED</b>   |                    |   |   |   |   |                      |  |  |  |
| <b>5 COLORADO</b>   |                    |   |   |   |   |                      |  |  |  |
| Boulder County  | 7 1900 MST         | 0 | 0 | 0 | 0 | Hail                 |  |  |  |
| <p>Tennis ball size hail fell about 5 miles north of Boulder; it was soft, and thus caused no damage.</p>   |                    |   |   |   |   |                      |  |  |  |
| Larimer County  | 7 1927MST 1/4 30   | 0 | 0 | 0 | 0 | Tornado (F1)         |  |  |  |
| <p>A tornado touched down briefly just southwest of Loveland. FPP101</p>  |                    |   |   |   |   |                      |  |  |  |
| Larimer County  | 10 1350MST         | 0 | 0 | 0 | 0 | Hail                 |  |  |  |
| <p>Hailstones 1 inch in diameter fell at Virginia Dale.</p>   |                    |   |   |   |   |                      |  |  |  |
| Saguache County   | 10 1400MST         | 0 | 0 | 5 | 0 | Flash Flood          |  |  |  |
| <p>A flash flood swept through a ranch 34 miles south of Gunnison, causing about \$100,000 damage to fences and buildings.</p>  |                    |   |   |   |   |                      |  |  |  |
| Douglas County  | 10 1434MST         | 0 | 0 | 0 | 0 | Hail                 |  |  |  |
| <p>3/4 inch hail fell 10 miles south of Parker.</p>   |                    |   |   |   |   |                      |  |  |  |
| Weld County   | 10 1445-50 1/2 50  | 0 | 0 | 4 | 0 | Tornado (F1)         |  |  |  |
| <p>A tornado touched down briefly on a farm near Platteville, causing \$20,000 damage to the farms sprinkler irrigation system. FPP101</p>  |                    |   |   |   |   |                      |  |  |  |
| Boulder County  | 10 1450MST         | 0 | 0 | 0 | 0 | High winds           |  |  |  |
| <p>Wind gusts as high as 70 mph accompanied torrential rain as a heavy thunderstorm moved through Longmont.</p>   |                    |   |   |   |   |                      |  |  |  |
| Jefferson County  | 10 1630MST         | 0 | 2 | 0 | 0 | Lightning            |  |  |  |
| <p>Two people were injured when struck by lightning just southwest of Morrison.</p>   |                    |   |   |   |   |                      |  |  |  |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE                | DATE      | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM   |
|----------------------|-----------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--|
|                      |           |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |  |
| <b>— COLORADO —</b>  |           |                       |                        |                       |                |         |                  |       |  |
| Clear Creek Cy.      | 10        | aftn                  |                        |                       | 0              | 1       | 0                | 0     | Flash flood<br>A man was injured when he was swept downstream by a flash flood in Clear Creek Canyon, 8 miles west of Golden. The flood occurred on a tributary of Clear Creek.  |
| Northeast Colorado   | 10        | aftn                  |                        |                       | 0              | 0       | 4                | 0     | Thunderstorms<br>Heavy thunderstorms pounded northeastern Colorado all afternoon, with most storms featuring torrential rain and frequent lightning. Many spots from Colorado Springs northward to Fort Collins received 1 to 2 inches of rain in a short time, and many power outages occurred in both Denver and Colorado Springs. Mudslides briefly closed several highways. Some of the heavier rainfall totals included 1 3/4 inches in 20 minutes in southeast Denver; 1.26 inches in 35 minutes at Boulder; 2.14 inches in 2 hours at Lakewood; 1.7 inches in 45 minutes at Aurora; and 1 1/4 inches in 30 minutes at Floyd Hill, in the foothills west of Denver. Lightning caused minor damage to a house in Colorado Springs, and a bolt that hit a home in eastern Aurora destroyed all electrical appliances inside it.  |
| Chaffee County       | 11        | 1800-45MST            |                        |                       | 0              | 0       | 0                | 0     | Heavy rain<br>1.60 inches of rain fell in 45 minutes near Buena Vista, causing water to run over US 285. A few buildings suffered minor flooding.  |
| NE Colorado          | 16        | aftn, eve.            |                        |                       | 0              | 0       | 5                | 0     | Svr. tstm.<br>Severe thunderstorms developed over the Denver area in the late afternoon and moved northeast, depositing large hail in many spots. The only damage reported was in the Phillips County town of Holyoke, where high winds caused damage to several buildings. Severe weather reported on July 16...times MST   |
|                      | 1621      |                       |                        |                       |                |         |                  |       | 3/4 inch hail in Littleton (W. Arapahoe Cy.)   |
|                      | 1715-1727 |                       |                        |                       |                |         |                  |       | 3/4-1 inch hail in Arvada (N. Jefferson Cy.)   |
|                      | 1757      |                       |                        |                       |                |         |                  |       | 3/4 inch hail in Northglenn (W. Adams Cy.)   |
|                      | 1758      |                       |                        |                       |                |         |                  |       | 1 to 1 1/4 inch hail in extreme NW Denver  |
|                      | 1804      |                       |                        |                       |                |         |                  |       | 1 3/4 inch hail in Lakewood (N. Jefferson Cy.)   |
|                      | 1807      |                       |                        |                       |                |         |                  |       | 1 1/4 inch hail in south Arvada (N. Jefferson Cy.)   |
|                      | 1826      |                       |                        |                       |                |         |                  |       | 1 inch hail in extreme northeast Aurora (W. Adams Cy.)   |
|                      | 1837      |                       |                        |                       |                |         |                  |       | 1 5/8 inch hail at Green Mountain (N. Jefferson Cy.)   |
|                      | 1850      |                       |                        |                       |                |         |                  |       | Golfball size hail in NW Denver  |
|                      | 1856      |                       |                        |                       |                |         |                  |       | 3/4 inch hail in Lakewood and Wheat Ridge (N. Jefferson Cy.)   |
|                      | 1936      |                       |                        |                       |                |         |                  |       | 1 1/4 inch hail just NE of Aurora (W. Adams Cy.)   |
|                      | 2005      |                       |                        |                       |                |         |                  |       | 3/4 inch hail 5 miles SE of Prospect Valley (SE Weld Cy)   |
|                      | 2025-2027 |                       |                        |                       |                |         |                  |       | 1 inch hail in extreme northeast Aurora (W. Adams Cy.)   |
|                      | 2257      |                       |                        |                       |                |         |                  |       | Golfball size hail at Woodrow (W. Washington Cy.)  |
|                      | 2347      |                       |                        |                       |                |         |                  |       | 1 inch hail 10 miles S of Akron (Cntrl Washington Cy.)   |
| Boulder County       | 17        | 1419MST               |                        |                       | 0              | 0       | 0                | 0     | Hail<br>3/4 inch hail fell at Lafayette.   |
| Adams County         | 17        | 1435-50 MST           |                        |                       | 0              | 0       | 0                | 0     | Hail<br>Golfball size hail pelted Brighton and Northglenn; funnel clouds were seen in the area.  |
| Weld County          | 17        | 1559MST               |                        |                       | 0              | 0       | 0                | 0     | Hail, wind<br>50 mph winds and marble size hail caused crop damage 5 miles SW of New Raymer.   |
| Sedgwick Cy.         | 17        | 1700-1900MST          |                        |                       | 0              | 0       | 4                | 4     | Svr. tstm.<br>Thunderstorms brought wind gusts estimated at 70 to 75 mph to Sedgwick County. At least two trailers were badly damaged in the town of Sedgwick, and light crop damage from wind and rain occurred in the area.  |
| Clear Creek Cy.      | 20        | aftn.                 |                        |                       | 0              | 0       | 0                | 0     | Heavy rain<br>1.9 inches of rain fell in 10 minutes at Mill Creek, near Idaho Springs.   |
| Montrose             | 20        | 1830-2130MST          |                        |                       | 0              | 0       | 4                | 0     | Heavy rain, lightning<br>1.49 inches of rain fell in Montrose—a record for a 24 hour period. Widespread street flooding occurred in the city, along with some power outages. Two mules were apparently killed by lightning.  |
| Douglas County       | 21        | 1830-1850 MST         |                        |                       | 0              | 0       | ?                | 0     | Severe tstm.<br>Up to golfball size hail fell in the Parker and Castle Rock areas; wind gusts up to 75 mph were recorded in Castle Rock.   |
| Front Range          | 21/22     | overnight             |                        |                       | 0              | 0       | 0                | 0     | Heavy rain<br>Downpours drenched the Front Range, with amounts of 1 to 2 inches common from Colorado Springs northward to Fort Collins. The heaviest amount reported was 2.36 inches in a 6 hour period at Parker; 3/4 inch hail and wind gusts as high as 75 mph occurred near that town on the evening of the 21st. The most intense rainfall was noted in Larimer County; about an inch fell in 20 minutes at Wellington.   |
| <b>— COLORADO —</b>  |           |                       |                        |                       |                |         |                  |       |  |
| NE Colorado          | 22        | aftn.                 |                        |                       | 0              | 0       | 5                | 0     | Heavy rain, hail<br>Another round of heavy thunderstorms dumped torrential rain and large hail, mostly within a 30 mile radius of Denver. The most serious problems were caused by flooding as a result of a rainfall of 3 inches in 45 minutes at Kirtledge, in the foothills west of Denver. The rain fell between 2 and 2:50 PM MST, and caused Bear Creek to rise five feet in ten minutes at Morrison. The town was evacuated for two hours. Two bridges were washed out; one collapsed with a fire truck on it, sending the truck into the water; the occupants were not injured. A deck on a house east of Evergreen was washed away, and there was street flooding along with power outages in that town, with some damage to cars from hail up to golfball size. 2.61 inches of rain drenched Evergreen in 30 minutes, while two inches fell in 45 minutes at Idaho Springs. The storm moved eastward off the foothills, dumping three inches of rain in an hour at Golden, and eight tenths of an inch in just seven minutes at Littleton. Heavy rain and large hail also fell in Denver and its northern and eastern suburbs, causing street flooding; water was six feet deep on one Aurora street. East of the city, golfball size hail broke windows in a mobile home park two miles east of Watkins. SEVERE WEATHER REPORTED ON THE 22ND... |
|                      | 1400-1420 |                       |                        |                       |                |         |                  |       | Golfball size hail in Evergreen, Kirtledge, and Floyd Hill (Northern and Central Jefferson Cy.)  |
|                      | 1500-1517 |                       |                        |                       |                |         |                  |       | 1 1/4 inch hail in Northwest and Central Denver  |
|                      | 1520-1525 |                       |                        |                       |                |         |                  |       | Golfball size hail in southeast Aurora (W. Arapahoe Cy.)   |
|                      | 1538-1551 |                       |                        |                       |                |         |                  |       | 3/4 inch hail 2 miles south of Watkins (W. Arapahoe Cy.)   |
|                      | 1545      |                       |                        |                       |                |         |                  |       | 3/4 inch hail in East Denver   |
|                      | 1500      |                       |                        |                       |                |         |                  |       | Golfball size hail 2 miles east of Watkins (W. Arapahoe Cy.)   |
| Denver Area          | 23        | afternoon             |                        |                       | 0              | 0       | 5                | 0     | Hail<br>0 0 6 0 Heavy Rain<br>Another round of heavy thunderstorms blasted Denver and areas just to the south of the city. Douglas County was hardest hit; golfball size hail fell in and to the north of Parker between 1:30 and 2:15 PM MST. Many homes at the Pinery, a subdivision just north of Parker, had windows broken and paint stripped by the storm; some vehicles were dented by the large stones. In Parker, 1.90 inches of rain fell in just 30 minutes. Many roads in Douglas County were washed out, and at least one bridge was damaged. Up to two inches of rain fell in Lakewood, and Littleton was drenched by 1.60 inches in 15 minutes. A department store in Lakewood suffered water damage when a pipe handling runoff broke, sending four inches of water onto the floor of the store. The rain also spread to Brighton, north of Denver, and to the east as far as Deer Trail; both spots had about an inch of rain in 30 minutes.  |
| Colorado Springs     | 23        | 1705 MST              |                        |                       | 0              | 0       | 3                | 0     | Lightning<br>A house in Colorado Springs suffered \$1000 in damage when struck by lightning.   |
| Kit Carson Cy.       | 23        | evening               |                        |                       | 0              | 0       | 4                | 5     | Thunderstorms<br>Torrential rain, high winds, and hail severely damaged crops, including corn, beans, and barley; some farm equipment was also damaged. Rain gauges at two different spots in the county measured 5 1/2 inches of rain in just half an hour.   |
| Phillips County      | 24        | evening               |                        |                       | 0              | 0       | 4                | 0     | High winds<br>High winds near Haxtun snapped 58 power poles in the area; damage was estimated at 15 to 20 thousand dollars.  |
| Montrose             | 26        | 1530 MST              |                        |                       | 0              | 0       | 3                | 0     | Lightning<br>A house sustained \$1000 damage after being struck in lightning.  |
| Front Range          | 26        | afternoon             |                        |                       | 0              | 0       | ?                | 0     | Heavy rain<br>Two heavy thunderstorms hit the northern and western parts of the Denver area. The first, between 1 and 3 PM MST, drenched Northglenn with an inch of rain in 30 minutes. The second storm, from 4:30 to 6:30 PM, dumped an inch or more in Idaho Springs and Evergreen. The heaviest rain—2.9 inches in an hour—fell in Golden, causing minor street flooding.  |
| Larimer County       | 27        | 1119-1213 MST         |                        |                       | 0              | 0       | 0                | 0     | Heavy rain<br>1.68 inches of rain fell in less than an hour at Poudre Park, west of Fort Collins; slightly smaller amounts were recorded at several sites nearby.  |
| Grand County         | 30        | 1445 MST              |                        |                       | 0              | 0       | 0                | 0     | Rain, Hail<br>1.60 inches of rain fell near Tabernash; marble size hail piled up 2 1/2 inches deep on the ground.  |
| Denver Area          | 30        | 1810-1845 MST         |                        |                       | 0              | 0       | 0                | 4     | Severe tstm.<br>Hail 3/4 to 1 inch in diameter fell in central and southeast Denver and in Littleton; 1 1/2 inches of rain fell in just 30 minutes in Littleton. There was some street flooding in both cities, with wind gusts up to 55 mph. The hail caused \$20,000 damage to wheat south of Littleton.   |
| El Paso, Pueblo Cys. | 30        | 1830-1930 MST         |                        |                       | 0              | 0       | 3                | 0     | Heavy rain<br>About 1 1/2 inches of rain fell in less than an hour in parts of both Colorado Springs and Pueblo. There was some street flooding in both cities, and a few homes sustained minor water damage.  |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |

## 6 CONNECTICUT

|  |    |                |  |  |   |   |   |   |   |
|--|----|----------------|--|--|---|---|---|---|---|
| Hartford Area  | 02 | 1500EST        |  |  | 0 | 0 | 0 | 0 | Lightning & Heavy Rain                  |
| Up to 10,000 homes lost power as lightning struck power lines during a heavy mid-afternoon thunderstorm.   |    |                |  |  |   |   |   |   |   |
| Bridgeport   | 05 | 1550EST        |  |  | 0 | 2 | 0 | 0 | Lightning                               |
| Two golfers were struck and seriously injured by lightning while standing under a tree on a local golf course during a heavy thunderstorm.   |    |                |  |  |   |   |   |   |   |
| Danbury  | 15 | Afternoon      |  |  | 0 | 0 | ? | 0 | Gusty Winds                             |
| A thunderstorm accompanied by very gusty winds blew down an addition to a large building which was under construction. Branches and some trees felled wires and blocked roads.   |    |                |  |  |   |   |   |   |   |
| Statewide  | 22 | All Day        |  |  | 0 | 0 | ? | 0 | Strong & Gusty NW Winds                 |
| Unusually strong and gusty northwesterly winds with peak gust to about 50 MPH brought down many tree limbs, a few trees and knocked out power to up to 22,000 customers statewide. A few autos were damaged by falling trees while along the coast numerous small craft required Coast Guard assistance. |    |                |  |  |   |   |   |   |   |
| Western Portion  | 30 | Afternoon      |  |  | 0 | 0 | ? | 0 | Gusty Winds<br>Heavy Rain & Lightning   |
| Heavy thunderstorms moved southeastward through the area knocking out power in eight towns in the New Milford area as trees, limbs, and wires were felled by gusty high winds.   |    |                |  |  |   |   |   |   |   |
| Chester  | 30 | Late Afternoon |  |  | 0 | 0 | 0 | 0 | Lightning, Gusty High Winds, Heavy Rain |
| A severe thunderstorm struck this town in the late afternoon with many trees uprooted blocking some roads and the power failure lasted up to 12 hours.   |    |                |  |  |   |   |   |   |   |

## 7 DELAWARE

|   |    |              |   |    |   |    |   |   |                 |
|---|----|--------------|---|----|---|----|---|---|-----------------|
| New Castle County   | 17 | 2100EST      |   |    | 0 | 0  | 4 | 0 | Wind, Lightning |
| Combination of wind and lightning downed power lines and caused power surges. Several thousand homes in the northern portion of the County were without electricity for a time. Lightning was apparently the cause of a fire that developed in a Claymont church steeple, resulting in heavy damage to the ceiling and steeple.   |    |              |   |    |   |    |   |   |                 |
| Wilmington (nr)   | 19 | 1900EST      |   |    | 0 | 1  | 3 | 0 | Wind            |
| Two tree limbs smashed through the roof of a home. One occupant had minor injuries. Damage was estimated at about \$3,000.  |    |              |   |    |   |    |   |   |                 |
| New Castle and Kent Counties  | 21 | 1930-2030EST |   |    | 0 | 15 | 5 | 0 | Wind            |
| Wind gusts of 50 to 70 mph as severe thunderstorms moved through the area, caused widespread property damage. Fallen trees struck homes and vehicles, with three members of one family seriously injured when their car was struck. Near Newark 20 houses under construction were blown down. In the Dover area windows of three apartment buildings were blown out...while some damage was done to three large aircraft at Dover Air Force Base. |    |              |   |    |   |    |   |   |                 |
| Hartley (vcnty), Kent County  | 21 | 1950EST      | 1 | 20 | 2 | 9  | 5 | 0 | Tornado (F2)    |
| Tornado moved in a west to east direction from the northern limits of Hartley, for about one mile, parallel to Rt. 44. Two houses along the path received major damage and most outbuildings, barns and garages in the path were destroyed. The two fatalities involved were occupants of separate trailer homes...one victim succumbing 6 days after the storm struck.   |    |              |   |    |   |    |   |   |                 |

## 8 FLORIDA

|  |    |         |   |   |   |   |   |   |           |
|--|----|---------|---|---|---|---|---|---|-----------|
| Hollister, Putnam County   | 02 | 1830EST | - | - | 0 | 0 | 4 | - | Lightning |
| Lightning struck a TV antenna, causing an explosion inside a mobile home. It started a fire which destroyed the home.  |    |         |   |   |   |   |   |   |           |
| Lake City, Columbia County   | 02 | 2030EST | - | - | 0 | 0 | 3 | 0 | Lightning |
| Lightning started a fire at a utility shed which burned to the ground.   |    |         |   |   |   |   |   |   |           |
| Crystal River, Citrus County   | 04 | 1630EST | - | - | 0 | 5 | 0 | 0 | Lightning |
| Lightning struck a dock at Kings Bay at Crystal River injuring five persons. The injuries were mostly minor burns but one person required overnight hospitalization. |    |         |   |   |   |   |   |   |           |

## FLORIDA

|  |    |         |    |    |   |   |   |   |                        |
|--|----|---------|----|----|---|---|---|---|------------------------|
| Chumuckla, Santa Rosa County   | 05 | 1445EST | -  | -  | 0 | 0 | 5 | 0 | Lightning              |
| Lightning struck power lines to a house in this small town. No one was home at the time although the blaze was witnessed by the home's owner who was next door. The structure burned to the ground.  |    |         |    |    |   |   |   |   |                        |
| 6E Chattahoochee, Gadsden County   | 05 | 1500EST | -  | -  | 0 | 3 | 2 | 0 | Lightning              |
| Lightning struck three men who were leaning on a metal plank at a sawmill. One was knocked unconscious and another knacker to the ground. The injuries were not serious.   |    |         |    |    |   |   |   |   |                        |
| SW Geneva, Seminole County   | 05 | 1615EST | .5 | 30 | 0 | 0 | 4 | - | Tornado(F1)            |
| A tornado struck at a fishing camp along the north shore of Lake Jessup where 12 persons were staying. The twister ripped a 60 by 80 foot roof from a boat house, split it in two and deposited half onto a boat and the other half in a nearby canal. A boat at a nearby cabin was picked up and thrown over the roof into a boat stall but the cabin itself was not disturbed. The tornado apparently dissipated a short time later.         |    |         |    |    |   |   |   |   |                        |
| SW Volusia County  | 06 | 1600EST | -  | -  | 0 | 0 | 3 | - | Strong Winds and Hail  |
| A strong thunderstorm dropped small hail on Osteen and Deltona, and wind gusts downed trees and power lines near Deltona.  |    |         |    |    |   |   |   |   |                        |
| Vero Beach, Indian River County  | 06 | 1700EST | -  | -  | 0 | 0 | 3 | - | Thunderstorm Winds     |
| A strong thunderstorm moving southwest through the area produced strong gusts (50 mph at the Vero Beach Flight Service Station) which blew down power lines and traffic signals.   |    |         |    |    |   |   |   |   |                        |
| 4S Ochoppe, Collier County   | 06 | 1700EST | 1  | 20 | 0 | 0 | 0 | - | Tornado(F0)            |
| A small tornado was spotted by a district fire chief over a mangrove swamp south of Ochoppe and 5 miles east of Everglades City. It was visible for about 5 minutes before heavy rain obscured it. The tornado was headed west toward Everglades City but it did not get that far.   |    |         |    |    |   |   |   |   |                        |
| Laurel, Sarasota County  | 07 | 1657EST | 3  | 50 | 0 | 0 | 5 | - | Waterspout/Tornado(F1) |
| A waterspout moved onshore from the Gulf of Mexico in southern Sarasota County. It tore down several aluminum roofs and carports and extensively damaged six mobile homes. Flying metal broke windows 600 feet away. Trees and power lines were blown down, and metal was embedded in the sides of homes. A car driving along U.S. 41 had its trailer overturned behind it. Pebble-size hail was also reported. The tornado dissipated inland. |    |         |    |    |   |   |   |   |                        |
| Polk County  | 07 | 1800EST | -  | -  | 0 | 0 | 3 | - | Strong Winds and Hail  |
| A heavy late afternoon thunderstorm moved through Polk County dumping up to three inches of rain in 45 minutes leaving high standing water through much of the area. Marble-size hail was reported at Aburndale, with wind damage to trees and power lines at Winter Haven, Alfred, and Eagle Lake, all in central Polk County.  |    |         |    |    |   |   |   |   |                        |
| Cross City, Dixie County   | 08 | 1430EST | -  | -  | 0 | 0 | 3 | - | Thunderstorm Winds     |
| Strong thunderstorm wind gusts uprooted several trees near Cross City including a large hickory tree which fell on top of a car extensively damaging it. Tree limbs punctured the walls of a nearby mobile home.   |    |         |    |    |   |   |   |   |                        |
| Crestview, Okaloosa County   | 18 | 1730EST | -  | -  | 0 | 0 | 5 | - | Thunderstorm Winds     |
| A severe thunderstorm moving southeast through northeast Crestview demolished ten small sheds and uprooted several trees. Scattered power outages were reported.   |    |         |    |    |   |   |   |   |                        |
| Hernando, Citrus County  | 18 | 1730EST | .4 | 20 | 0 | 0 | 2 | - | Tornado(F0)            |
| A small tornado uprooted several small trees just north of Hernando. Damage to property was slight with one tree falling on top of a car. The tornado dissipated after only a short time.  |    |         |    |    |   |   |   |   |                        |
| Coral Springs, Broward County  | 19 | 1440EST | .3 | 20 | 0 | 0 | 1 | - | Tornado(F0)            |
| A small tornado uprooted and split several trees at a subdivision. One tree was blown into a backyard pool. No damage to homes was reported.   |    |         |    |    |   |   |   |   |                        |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE                           | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM  |
|---------------------------------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|---|
|                                 |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |   |
| <b>FLORIDA</b>                  |      |                       |                        |                       |                |         |                  |       |   |
| Delray Beach, Palm Beach County | 20   | 2315EST               | .5                     | 30                    | 0              | 0       | 4                | -     | Tornado(F1)   |
|                                 |      |                       |                        |                       |                |         |                  |       | A tornado flipped a vacant 12 by 60 foot construction trailer near an apartment complex. The trailer was overturned and smashed. A nearby tool shed was also smashed. No damage was reported to any of the apartments. The tornado dissipated a short time later. |
| Tarpon Springs, Pinellas County | 22   | 1245EST               | -                      | -                     | 1              | 1       | 1                | 0     | Lightning   |
|                                 |      |                       |                        |                       |                |         |                  |       | One construction worker was killed and another injured when lightning struck near an area of steel rods. The injured worker was treated for shock and released.   |
| Jacksonville, Duval County      | 25   | 1500EST               | -                      | -                     | 0              | 0       | 4                | -     | Thunderstorm Winds  |
|                                 |      |                       |                        |                       |                |         |                  |       | Strong thunderstorm winds ripped an aluminum roof off an animal shelter building, uprooted numerous trees and knocked down signs and traffic signals.   |
| Zephyrhills, Pasco County       | 25   | 1540EST               | .5                     | 30                    | 0              | 0       | 4                | 0     | Tornado(F1)   |
|                                 |      |                       |                        |                       |                |         |                  |       | A tornado uprooted trees and demolished sheds along the north side of Zephyrhills. The roof of a lumber company warehouse was torn off and deposited onto two trailers in an adjacent park. Small hail and heavy rains accompanied the parent storm.              |
| Sarasota, Sarasota County       | 29   | 1600EST               | -                      | -                     | 0              | 0       | 1                | -     | Hailstorm   |
|                                 |      |                       |                        |                       |                |         |                  |       | A strong afternoon thunderstorm dropped small hail up to one-half inch in diameter in Sarasota resulting in several broken windows and dented autos. Strong winds also blew down power lines.   |
| Brandon, Hillsborough County    | 29   | 1700EST               | -                      | -                     | 1              | 1       | 0                | 0     | Lightning   |
|                                 |      |                       |                        |                       |                |         |                  |       | One person was killed and his companion injured when struck by lightning as they sought shelter under a tree.   |
| <b>9 GEORGIA</b>                |      |                       |                        |                       |                |         |                  |       |   |
| Dawson County                   | 1    | 1425EST               |                        |                       | 0              | 0       | 2                | 0     | Wind  |
|                                 |      |                       |                        |                       |                |         |                  |       | Thunderstorm winds uprooted several trees and downed a few power lines.   |
| Hall County                     | 1    | 1530EST               |                        |                       | 0              | 0       | 5                | 0     | Wind  |
|                                 |      |                       |                        |                       |                |         |                  |       | Thunderstorm winds caused considerable damage to the Holiday Marina on Lake Lanier.   |
| Fulton County                   | 1    | 1530EST               |                        |                       | 1              | 3       | 0                | 0     | Lightning   |
|                                 |      |                       |                        |                       |                |         |                  |       | A 26-year-old construction worker was killed by lightning during work on the fourth runway at the Atlanta Airport. Three other workers close nearby suffered minor injuries.  |
| Newton County                   | 1    | 1715EST               |                        |                       | 0              | 0       | 2                | 0     | Wind  |
|                                 |      |                       |                        |                       |                |         |                  |       | Several trees in the southern part of the county were downed by thunderstorm winds.   |
| Bartow County                   | 3    | 1715EST               |                        |                       | 0              | 0       | 3                | 0     | Wind  |
|                                 |      |                       |                        |                       |                |         |                  |       | Thunderstorm winds damaged a mobile home and ripped the roof off a motorcycle shop. The winds also downed a few trees and power lines.  |
| Gordon County                   | 3    | 1800EST               |                        |                       | 0              | 0       | 2                | 0     | Wind  |
|                                 |      |                       |                        |                       |                |         |                  |       | Thunderstorm winds downed a few trees and power lines.  |
| Troup County                    | 5    | 1245EST               |                        |                       | 0              | 0       | 3                | 0     | Wind  |
|                                 |      |                       |                        |                       |                |         |                  |       | Thunderstorm winds downed dozens of trees in LaGrange. Several of the trees fell on power lines, causing power outages for about 10 percent of the city.  |
| Clarke County                   | 5    | 1518EST               |                        |                       | 0              | 0       | 0                | 0     | Wind  |
|                                 |      |                       |                        |                       |                |         |                  |       | Thunderstorm winds gusted to 51 knots at the Athens Airport.  |
| Bibb County                     | 5    | 1547EST               |                        |                       | 0              | 0       | 0                | 0     | Wind  |
|                                 |      |                       |                        |                       |                |         |                  |       | Thunderstorm winds gusted to 55 knots at the Macon Airport.   |
| Richmond County                 | 5    | 1655EST               |                        |                       | 0              | 0       | 0                | 0     | Funnel Cloud  |
|                                 |      |                       |                        |                       |                |         |                  |       | A funnel cloud was reported in northwest Augusta.   |
| Richmond County                 | 5    | 1730EST               |                        |                       | 0              | 0       | 3                | 0     | Wind  |
|                                 |      |                       |                        |                       |                |         |                  |       | Thunderstorm winds downed several trees and power lines in Augusta. Falling tree limbs caused minor damage to a few houses and cars.  |
| <b>GEORGIA</b>                  |      |                       |                        |                       |                |         |                  |       |   |
| Pierce County                   | 5    | 1845EST               |                        |                       | 0              | 0       | 3                | 0     | Wind  |
|                                 |      |                       |                        |                       |                |         |                  |       | Thunderstorm winds downed more than 20 trees in the Hacklebarney Community. Tin roofs were blown off several barns in the area.   |
| Chatham County                  | 11   | 1300EST               |                        |                       | 1              | 0       | 2                | 0     | Lightning, Wind   |
|                                 |      |                       |                        |                       |                |         |                  |       | A 56-year-old man was killed by lightning while he was standing in his front yard in south Savannah. Thunderstorm winds downed a few trees in the area.   |
| Richmond County                 | 15   | 1435EST               |                        |                       | 0              | 0       | 3                | 0     | Wind  |
|                                 |      |                       |                        |                       |                |         |                  |       | Thunderstorm winds downed several trees and power lines in Augusta. Some roof damage was reported.  |
| Richmond County                 | 15   | 1500EST               |                        |                       | 0              | 0       | 2                | 0     | Hail  |
|                                 |      |                       |                        |                       |                |         |                  |       | Hail up to 1 inch in diameter caused some hail damage to a home just southwest of Augusta.  |
| Warren County                   | 15   | 1537EST               |                        |                       | 0              | 0       | 3                | 2     | Wind, Lightning   |
|                                 |      |                       |                        |                       |                |         |                  |       | Thunderstorm winds downed a few trees, destroyed a small shed, damaged some corn fields and blew down a few television antennas. Lightning strikes damaged the radios at the Warren County Communications Center.   |
| Washington County               | 15   | 1630EST               |                        |                       | 0              | 1       | 2                | 0     | Wind, Lightning   |
|                                 |      |                       |                        |                       |                |         |                  |       | Lightning struck and severely injured a woman 8 miles south of Tennille. A large oak tree was blown onto Highway 15 in Tennille.  |
| Muscookee County                | 15   | 1738EST-1808EST       |                        |                       | 0              | 0       | 5                | 0     | Wind, Lightning   |
|                                 |      |                       |                        |                       |                |         |                  |       | Thunderstorm winds gusted to 55 knots at the Columbus Airport. The winds downed several trees and power lines and caused considerable roof damage in Columbus. Five metal buildings and several main power substations were damaged.                              |
| Bibb County                     | 15   | 1830EST-1900EST       |                        |                       | 0              | 0       | 3                | 0     | Wind  |
|                                 |      |                       |                        |                       |                |         |                  |       | Thunderstorm winds downed numerous trees and power lines.   |
| Taylor County                   | 15   | 1830EST               |                        |                       | 0              | 0       | 3                | 0     | Wind  |
|                                 |      |                       |                        |                       |                |         |                  |       | Thunderstorm winds destroyed a mobile home just south of Butler.  |
| Clarke County                   | 17   | 1600EST               |                        |                       | 0              | 0       | 5                | 0     | Lightning   |
|                                 |      |                       |                        |                       |                |         |                  |       | A lightning strike caused a fire that destroyed a warehouse in Athens.  |
| Treutlen County                 | 17   | 1730EST               |                        |                       | 0              | 0       | 4                | 2     | Wind  |
|                                 |      |                       |                        |                       |                |         |                  |       | Thunderstorm winds downed a large pecan tree, destroyed a barn, and damaged a tobacco field.  |
| Habersham County                | 18   | 1600EST               | 1.0                    | 50                    | 0              | 0       | 4                | 0     | Tornado (F0)  |
|                                 |      |                       |                        |                       |                |         |                  |       | A tornado touched down 5 miles north of Clarksville. The tornado destroyed a mobile home, ripped part of the tin roof from a home, and downed several trees.  |
| Troup County                    | 19   | 1745EST               |                        |                       | 0              | 0       | 4                | 0     | Lightning   |
|                                 |      |                       |                        |                       |                |         |                  |       | Lightning strikes caused fires in 4 homes in LaGrange, completely destroying one of the homes.  |
| Catoosa County                  | 20   | 1415EST               |                        |                       | 0              | 0       | 5                | 0     | Wind, Lightning   |
|                                 |      |                       |                        |                       |                |         |                  |       | Thunderstorm winds blew several trees down in Fort Oglethorpe. At least 10 buildings were damaged by the gusty winds and by falling trees. Lightning strikes caused several fires.  |
| Thomas County                   | 20   | 1615EST               |                        |                       | 0              | 0       | 4                | 0     | Wind  |
|                                 |      |                       |                        |                       |                |         |                  |       | Thunderstorm winds downed a few trees and power lines in Thomasville. Falling trees caused some roof damage.  |
| Sumter County                   | 20   | 1845EST               |                        |                       | 0              | 0       | 4                | 0     | Lightning   |
|                                 |      |                       |                        |                       |                |         |                  |       | Lightning struck a house 3 miles west of Plains, causing a fire that destroyed the building.  |
| Baldwin County                  | 22   | 1403EST               |                        |                       | 0              | 0       | 4                | 0     | Lightning   |
|                                 |      |                       |                        |                       |                |         |                  |       | A lightning strike caused a fire that destroyed a mobile home in Hardwick.  |
| Ware County                     | 22   | 1500EST               |                        |                       | 0              | 0       | 4                | 0     | Wind  |
|                                 |      |                       |                        |                       |                |         |                  |       | Thunderstorm winds downed at least 9 television antennas and 18 pecan trees about 8 miles northeast of Waycross.  |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         |          |       | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|----------|-------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY | CROPS | PROPERTY         | CROPS |                    |

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         |          |       | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|----------|-------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY | CROPS | PROPERTY         | CROPS |                    |

## GEORGIA

|   |    |         |  |  |   |   |   |   |   |   |      |
|---|----|---------|--|--|---|---|---|---|---|---|------|
| Chatham County  | 23 | 0040EST |  |  | 0 | 0 | 0 | 0 | 0 | 0 | Wind |
| Thunderstorm winds gusted to around 52 knots at the Savannah Port Authority.  |    |         |  |  |   |   |   |   |   |   |      |
| Glynn County  | 23 | 0315EST |  |  | 0 | 0 | 2 | 0 | 0 | 0 | Wind |
| Thunderstorm winds downed a few trees and power lines.  |    |         |  |  |   |   |   |   |   |   |      |
| Greene County   | 24 | 1800EST |  |  | 0 | 0 | 3 | 0 | 0 | 0 | Wind |
| Thunderstorm winds downed several trees and power lines between Greensboro and Union Point.   |    |         |  |  |   |   |   |   |   |   |      |
| Burke County  | 24 | 1900EST |  |  | 0 | 3 | 4 | 0 | 0 | 0 | Wind |
| Thunderstorm winds destroyed a house trailer in Sardis, causing minor injuries to three people.   |    |         |  |  |   |   |   |   |   |   |      |
| Barrow County   | 25 | 1430EST |  |  | 0 | 0 | 2 | 0 | 0 | 0 | Wind |
| Thunderstorm winds downed a few trees and power lines in Winder.  |    |         |  |  |   |   |   |   |   |   |      |
| Oconee County   | 25 | 1530EST |  |  | 0 | 0 | 5 | 0 | 0 | 0 | Wind |
| Thunderstorm winds destroyed 3 chicken houses, blew over one house trailer, and downed a few trees and power lines. Several houses in Farmington were damaged by falling trees. |    |         |  |  |   |   |   |   |   |   |      |
| Jones County  | 25 | 2200EST |  |  | 0 | 0 | 2 | 0 | 0 | 0 | Wind |
| Thunderstorm winds downed several power lines in Gray.  |    |         |  |  |   |   |   |   |   |   |      |

## 10 IDAHO

|   |    |                            |     |    |   |   |   |   |   |   |                           |
|---|----|----------------------------|-----|----|---|---|---|---|---|---|---------------------------|
| Fruitland, Payette Counties   | 01 | 1430MST                    | 2.0 | 10 | 0 | 0 | 4 | 0 | 0 | 0 | Tornado (F1)              |
| A tornado was reported to have moved through a farm three miles east of Fruitland. The roofs of three farm buildings were blown off and a calf was killed by a 20 foot long, 6X6 wood beam that fell on it. A Weather Service inspection confirmed that this was tornado inflicted wind damage.   |    |                            |     |    |   |   |   |   |   |   |                           |
| Bannock, Bingham, Bonneville, & Power Counties  | 06 | Late Afternoon And Evening |     |    | 1 | 2 | 5 | 0 | 0 | 0 | Thunderstorm, Wind        |
| Strong winds associated with a line of thunderstorms blew down trees and power lines. Several cars and a trailer home were heavily damaged by downed trees. At Palisades Reservoir, Bonneville county, one man was killed and two injured as strong winds toppled 30 trees in a campground. At 1504MST a wind gust of 82 MPH was recorded at the Pocatello Airport.   |    |                            |     |    |   |   |   |   |   |   |                           |
| Aberdeen, Bingham County  | 07 | 1700MST                    |     |    | 0 | 0 | 5 | 0 | 0 | 0 | Thunderstorm, Wind        |
| A line of strong thunderstorms moved through the area. Falling trees damaged several cars and roofs of homes. Hanger doors at the airport were blown in and warped. A quanset hut valued at \$7500 was destroyed.   |    |                            |     |    |   |   |   |   |   |   |                           |
| Bannock, Fremont, Madison, Teton, Jefferson & Caribou Counties  | 09 | 1330-1500MST               |     |    | 0 | 0 | 6 | 6 | 0 | 0 | Thunderstorms, Wind, Hail |
| Thunderstorms accompanied by locally heavy rain, hail and strong gusty winds moved through southeastern Idaho. Hail, the size of golf balls in a few areas, damaged many fields of potatoes and wheat. Wind gust of over 70 MPH were reported at the Driggs Airport, Teton county and up to 60 MPH at the Pocatello Airport. Part of the roof of a restaurant was ripped off in Arimo, Bannock county.  |    |                            |     |    |   |   |   |   |   |   |                           |
| Teton Peaks Boy Scout Camp, Fremont County  | 15 | 1800MST                    |     |    | 0 | 1 | 2 | 0 | 0 | 0 | Lightning                 |
| A 37 year old man was treated for second and third degree burns on both feet after lightning struck him on the right side. Two vehicles were also struck by the same electrical storm and received minor damage.  |    |                            |     |    |   |   |   |   |   |   |                           |
| Filer, Twin Falls County  | 23 | 1600MST                    |     |    | 0 | 0 | 4 | 0 | 0 | 0 | High Winds                |
| A strong wind storm lifted a 30X40 foot tin building and dropped it on a garage and trailer home nearby.  |    |                            |     |    |   |   |   |   |   |   |                           |
| Bonner, Clearwater, Lewis Counties  | 24 | 1730MST                    |     |    | 0 | 3 | 5 | 7 | 0 | 0 | Thunderstorm, Wind, Hail  |
| A violent hail storm combined with heavy rains and strong winds swept across northern Idaho. Heavy damage was reported to crops, buildings and vehicles plus falling trees and erosion of soils. Near Blanchard, Bonner County, three people received minor injuries when the top of a tree fell about 30 feet and smashed the top of their car. Hail up to the size of golf balls ruined many areas of crops, mainly of wheat and broke several windows. |    |                            |     |    |   |   |   |   |   |   |                           |

## 11 ILLINOIS

|  |       |              |  |  |   |   |   |   |   |   |                       |
|--|-------|--------------|--|--|---|---|---|---|---|---|-----------------------|
| Northern Third   | 01-02 | 0600-1900CST |  |  | 1 | 0 | 6 | 0 | 0 | 0 | Wind, Hail & Flooding |
| Scattered thunderstorms with high winds and large hail moved across portions of the north during a 37 hour period. The wind damage, mainly to trees, power lines, out-buildings was wide-spread. The northwest corner of the state recorded winds over 52 knots from 0600 to 0800 on the 1st. The northeast portion received the strong winds between 0800 to 0930. The highest recorded gust (64 knots) was at Woodstock, in McHenry County, at 0810. Several trees were uprooted and power failures were common. A few funnel clouds were sighted but caused no damage. During the late evening hours, more thunderstorms developed in northeast Illinois and continued into the morning of the 2nd. More tree damage and power outages occurred. A few houses and buildings were also damaged. At 2227 1 inch hail was reported in Yorktown, Kendall County, and at 0001 on the 2nd 3/4 inch hail was reported in Waterman, DeKalb County. Much of Cook County suffered tree damage as thunderstorms with high winds moved across the area at 0045. |       |              |  |  |   |   |   |   |   |   |                       |
| The thunderstorms also produced heavy rainfall amounts in north-eastern Illinois causing flooding. In the western suburbs of Chicago (the counties of Cook, Will, and DuPage) 2 to 4 inches of rain caused severe flooding and several hundreds families had to leave their homes. Many homes, buildings and cars were badly damaged as flood waters rose to more than 5 feet in some areas. On the 2nd at 0930 a 14 year old boy drowned when he fell from a culvert into the fast moving waters of Indian Creek in Aurora, Du Page County. Other nearby Counties also reported flooding of low-lying areas.  |       |              |  |  |   |   |   |   |   |   |                       |
| Northern Sections  | 03    | 1800-1900CST |  |  | 0 | 0 | 3 | 0 | 0 | 0 | Wind                  |
| Scattered thunderstorms with high winds again moved across portions of the northern part of the state. Only tree damage was reported.  |       |              |  |  |   |   |   |   |   |   |                       |
| Northeast Section  | 17    | 1600-1930CST |  |  | 0 | 0 | 3 | 0 | 0 | 0 | Wind                  |
| During the afternoon, thunderstorms developed over the the northeast section of the state. Winds as high as 52 knots caused only minor damage.   |       |              |  |  |   |   |   |   |   |   |                       |
| Northeast Section  | 19    | 1900-2030CST |  |  | 0 | 0 | 3 | 0 | 0 | 0 | Wind                  |
| As scattered thunderstorms with high winds moved across portions of the northeast, tree damage and power failures were common. Wind gusts to 60 knots were recorded at many locations in this section.   |       |              |  |  |   |   |   |   |   |   |                       |
| Northeast Section  | 20    | 1600-2200CST |  |  | 0 | 0 | 5 | 0 | 0 | 0 | Wind                  |
| The northeast portion again was hit with severe thunderstorms and powerful winds which caused tree, minor building damage, and power outages. Wind gusting between 52 to 60 knots were common in the area. The highest gust was recorded at 2037 in Deerfield, Lake County, at 76 knots. Elgin, Kane County reported tree damage and power failures at 1725. At 1740 the wind blew a high tension power line into a swimming pool and started a fire in a house in Carpentersville, Kane County. Some outdoor display signs were blown away by the strong winds in Berwyn, Cook County, at 2133.   |       |              |  |  |   |   |   |   |   |   |                       |
| Northwest Section  | 23    | 0100-0230CST |  |  | 0 | 0 | 5 | 0 | 0 | 0 | Wind                  |
| In the early morning hours, thunderstorms with high winds caused wide-spread damage in northwest Illinois. Trees, cars and out-buildings were damaged. Whiteside County suffered extensive damage as cars were damaged by fallen trees and power failures occurred.  |       |              |  |  |   |   |   |   |   |   |                       |
| Southern Third   | 24    | 1930-2130CST |  |  | 0 | 0 | 5 | 0 | 0 | 0 | Wind                  |
| Scattered thunderstorms with strong winds caused damage to trees, farm buildings, and downed power lines in the southern portions of the state. In Le Roy, Madison County, 2 farm buildings and several trees were damaged at 1945CST. Power lines were blown down in Murphysboro, Jackson County, at 2055. Power was also knocked out in Carterville, Williamson County, at 2123. A wind gust of 52 knots was reported at Carbondale, Jackson County, at 2120.  |       |              |  |  |   |   |   |   |   |   |                       |
| Northeast and Central Sections   | 29    | 1530-1900CST |  |  | 0 | 0 | 5 | 0 | 0 | 0 | Wind                  |
| Parts of the northeast and central sections again suffered wind damage during the late afternoon. At the Pekin Airport, Tazewell County, 2 planes were damaged at 1545. Two roofs were blown off at Custer Park, Will County, at 1840.   |       |              |  |  |   |   |   |   |   |   |                       |



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE                                 | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         |          |       | ESTIMATED DAMAGE               | CHARACTER OF STORM  |
|---------------------------------------|------|-----------------------|------------------------|-----------------------|----------------|---------|----------|-------|--------------------------------|---|
|                                       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY | CROPS |                                |   |
| <b>12 INDIANA</b>                     |      |                       |                        |                       |                |         |          |       |                                |   |
| Valparaiso, Porter County             | 01   | 1015EST               |                        |                       | 0              | 0       | 4        | 0     | Thunderstorms, Winds           | Strong thunderstorms, winds ripped through the downtown section; uprooted trees which caused damage to roofs and auto. Winds were estimated at 70 MPH.  |
| Michigan City Porter County           | 01   | 1025EST               |                        |                       | 0              | 0       | 4        | 0     | Thunderstorms, Winds           | Several homes damaged by high winds. Windows blown in and one home had some bricks pulled from the side.  |
| 3NE Winamac Pulaski County            | 01   | 1045EST               |                        |                       | 0              | 2       | 4        | 0     | Thunderstorms, Winds           | Two people suffered minor injuries when strong winds overturned their mobile home.  |
| 21/2 N. Knox Starke County            | 01   | 1057EST               | .1                     | 50                    | 0              | 0       | 2        | 0     | Tornado (F1)                   | Trees uprooted, power lines down.   |
| South Bend St. Joseph County          | 01   | 1058EST               |                        |                       | 0              | 0       | 4        | 0     | Thunderstorm, Winds            | Numerous trees down and power outages throughout the city. Wind gusts to 55 MPH at Michiana Airport.  |
| 10 W. Rochester Fulton County         | 01   | 1100EST               |                        |                       | 0              | 0       | 3        | 0     | Thunderstorm, Winds            | Strong winds for a thunderstorm, blew down a Radio Tower.   |
| Akron, Fulton County                  | 01   | 1100EST               |                        |                       | 0              | 0       | 0        | 0     | Thunderstorm, Winds            | Strong thunderstorm winds uprooted some large trees.  |
| Warsaw Kosciusko County               | 01   | 1120EST               |                        |                       | 0              | 3       | ?        | 0     | Thunderstorm, Wind Hail        | Trees down, power outages. Weather related accidents caused injury to three persons.  |
| Fort Wayne Allen County               | 01   | 1905EST               |                        |                       | 0              | 0       | 0        | 0     | Hail                           | 3/4 inch hail was reported by the National Weather Service at Baer Field in Fort Wayne.   |
| Southern Kosciusko County             | 01   | 1934EST               |                        |                       | 0              | 0       | 0        | 0     | Funnel                         | Funnel reported but no damage.  |
| Northwest Indiana                     | 01   | 2050EST               |                        |                       | 1              | 0       | 4        | 3     | Flash Floods                   | Thunderstorms moving through the northwest part of the state dumped up to 8 inches of rain. This resulted in many small streams and drainage ditches to overflow their banks flooding basements as well as block state and county roads. The counties affected were: Fulton, Kosciusko, LaPorte, Marshall and Starke. |
| Marshall County                       | 01   | 2105EST               |                        |                       | 0              | 0       | ?        | ?     | Hail                           | 3/4 inch hail reported in southern Marshall County.   |
| Knox Starke County                    | 01   | 2110EST               |                        |                       | 0              | 0       | ?        | ?     | Hail                           | 1 inch diameter hail.   |
| Whitley County South Whitley          | 01   | 2112EST               | 1                      |                       | 0              | 0       | 1        | 0     | Wind                           | Whitley County Sheriff reported trees uprooted by high winds.   |
| Huntington County                     | 01   | 2134EST               |                        |                       | 0              | 0       | 0        | 0     | Hail                           | Huntington Ham Radio Group reported 1 inch diameter hail just north of Huntington.  |
| Huntington County Just N. of Marion   | 01   | 2215EST               |                        |                       | 0              | 0       | 0        | 0     | Hail                           | 3/4 inch hail was reported just north of Marion by the Huntington County Civil Defense.   |
| South Bend St. Joseph County          | 01   | 2230EST               |                        |                       | 0              | 0       | 5        | 0     | Lightning                      | Paper factory destroyed and 3 homes damaged.  |
| Knox Starke County                    | 01   | 2238EST               |                        |                       | 0              | 0       | ?        | ?     | Thunderstorm, Winds            | Trees uprooted, wind gusts estimated in excess of 50 MPH.   |
| Argos Marshall County                 | 01   | 2243EST               |                        |                       | 0              | 0       | ?        | ?     | Flooding                       | 3.25 inches of rainfall. Most fell between 2130EST and 2230EST.   |
| LaPorte, Starke and Marshall Counties | 02   | 0200EST               |                        |                       | 0              | 0       | 5        | 5     | Flooding                       | Rainfall of up to 7 inches over these counties during the evening caused extensive urban and small stream flooding.   |
| <b>INDIANA</b>                        |      |                       |                        |                       |                |         |          |       |                                |   |
| Cicero Hamilton County                | 04   | 1030EST               |                        |                       | 0              | 0       | 3        | 0     | Thunderstorm, Winds            | Scattered power outages and large limbs blown down.   |
| Indianapolis Marion County            | 04   | 1130EST               |                        |                       | 0              | 0       | 3        | 0     | Lightning                      | Some eastern sections of the City were without power following lightning striking a sub station.  |
| Elwood Madison County                 | 04   | 1200EST               |                        |                       | 0              | 0       | 0        | 0     | Thunderstorms                  | Several trees uprooted by thunderstorm winds.   |
| Bedford Lawrence County               | 04   | 1300EST               |                        |                       | 0              | 0       | 0        | 0     | Hail                           | One inch diameter hail reported.  |
| Centerville Wayne County              | 04   | 1310EST               |                        |                       | 0              | 0       | 3        | 0     | Thunderstorms                  | Strong thunderstorm winds uprooted large trees.   |
| Richmond Wayne County                 | 04   | 1315EST               |                        |                       | 0              | 0       | 4        | 0     | Thunderstorms, Winds           | Trees were uprooted and a radio station taken off the air by strong thunderstorm winds. Some homes had their windows blown in.  |
| Seymour Jackson County                | 04   | 1330EST               |                        |                       | 0              | 0       | 0        | 0     | Thunderstorm                   | Strong winds from a thunderstorm uprooted large trees.  |
| Evansville Vanderburgh County         | 04   | 1347EST               |                        |                       | 0              | 0       | 0        | 0     | Thunderstorm, Hail             | Downtown Evansville, Indiana 50 to 60 MPH winds and hail of 3/4 to 1 inch reported.   |
| Decatur County                        | 17   | 1546EST               |                        |                       | 0              | 0       | 0        | 3     | Thunderstorms, Winds           | Strong thunderstorm winds uprooted trees and cornfields.  |
| Shelby Shelby County                  | 17   | 1550EST               |                        |                       | 0              | 0       | 3        | 0     | Thunderstorms, Winds           | Large limbs and powerlines downed.  |
| Atlantic Hamilton County              | 19   | 1420EST               |                        |                       | 0              | 0       | 3        | 0     | Thunderstorm Winds             | Scattered power outages and large limbs blown down.   |
| Indianapolis Marion County            | 19   | 1530EST               |                        |                       | 0              | 1       | 4        | 0     | Thunderstorm Winds             | Strong thunderstorm winds blew in some windows in the downtown area. One person was injured by flying glass. The partially complete dome on the new Houser Dome was ripped.   |
| Johnson County                        | 19   | 1600EST               |                        |                       | 0              | 2       | 3        | 0     | Thunderstorm Winds             | Trees uprooted throughout county.   |
| 2N Brainbridge Putnam County          | 19   | 1735EST               |                        |                       | 0              | 0       | 0        | 0     | Thunderstorm Winds             | Strong winds uprooted trees.  |
| Western Hendricks County              | 19   | 1735EST               |                        |                       | 0              | 0       | 0        | 3     | Thunderstorm Winds             | Several areas of flatten corn. Appear to be caused by microbursts.  |
| White County                          | 19   | 2010EST               |                        |                       | 0              | 0       | 0        | 0     | Thunderstorm Winds             | Scattered trees uprooted throughout county.   |
| Mechanicsburg Boone County            | 19   | 2010EST               |                        |                       | 0              | 0       | 0        | 0     | Thunderstorm Winds             | Strong thunderstorm winds uprooted some large trees.  |
| Clinton County                        | 19   | 2010EST               |                        |                       | 0              | 0       | 3        | 0     | Thunderstorm Winds             | Minor damage to some buildings and large limbs blown down by strong thunderstorm winds throughout the county.   |
| Demotte, Jasper County                | 19   | 2330EST               |                        |                       | 0              | 0       | 0        | 0     | Thunderstorm Winds             | Winds estimated at 70 MPH. Several trees uprooted.  |
| Star City Pulaski County              | 19   | 2345EST               |                        |                       | 0              | 0       | 0        | 0     | Thunderstorm Winds             | Strong thunderstorm winds broke off tree limbs.   |
| St. Joseph County                     | 19   | 2350EST               |                        |                       | 0              | 0       | 5        | 0     | Thunderstorm, Winds, Lightning | Numerous trees down, power outages, several fires resulting from lightning strikes. Wind gusts estimated 60 to 70 MPH in the area. Gusts to 45 MPH recorded at WSO.   |
| Carpenterville Putnam County          | 20   | 0200EST               |                        |                       | 0              | 0       | 3        | 0     | Thunderstorm Winds             | Strong thunderstorm winds uprooted trees and downed power lines.  |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |

## INDIANA

|  |    |         |  |  |   |   |   |   |                      |
|--|----|---------|--|--|---|---|---|---|----------------------|
| Tilden<br>Hendricks County   | 20 | 1345EST |  |  | 0 | 0 | 0 | 0 | Thunderstorm Winds   |
| Several trees uprooted.  |    |         |  |  |   |   |   |   |                      |
| Elkhart County   | 21 | 2108EST |  |  | 0 | 0 | ? | ? | Thunderstorm Winds   |
| Numerous tree limbs down and power outages. Wind gusts of 69 MPH recorded at Elkhart Airport. 45 MPH recorded at Goshen. |    |         |  |  |   |   |   |   |                      |
| South Bend<br>St. Joseph County  | 21 | 2110EST |  |  | 0 | 0 | ? | ? | Thunderstorm Winds   |
| Widespread power outages due to falling tree limbs.  |    |         |  |  |   |   |   |   |                      |
| Sheridan<br>Hamilton County  | 23 | 1440EST |  |  | 0 | 0 | 3 | 0 | Thunderstorm Winds   |
| House trailer over turned by strong winds.   |    |         |  |  |   |   |   |   |                      |
| Eagle Town<br>Hamilton County  | 23 | 1500EST |  |  | 0 | 0 |   |   | Thunderstorm Winds   |
| Strong winds uprooted trees and downed power lines.  |    |         |  |  |   |   |   |   |                      |
| Anderson<br>Madison County   | 23 | 1505EST |  |  | 0 | 0 | 0 | 0 | Thunderstorm Winds   |
| Strong winds blew windows out of some buildings in downtown Anderson   |    |         |  |  |   |   |   |   |                      |
| Anderson<br>Madison County   | 23 | 1520EST |  |  | 0 | 2 | 0 | 0 | Thunderstorm Winds   |
| Several house trailers damaged and two people cut by flying glass.   |    |         |  |  |   |   |   |   |                      |
| Chesterfield<br>Madison County   | 23 | 1525EST |  |  | 0 | 0 | 0 | 0 | Thunderstorm Winds   |
| Strong winds uprooted trees blocking roads.  |    |         |  |  |   |   |   |   |                      |
| 2S Wilkinson<br>Hancock County   | 23 | 1535EST |  |  | 0 | 0 | 0 | 0 | Thunderstorm Winds   |
| Strong winds uprooted trees blocking roads.  |    |         |  |  |   |   |   |   |                      |
| NE Rush County   | 23 | 1550EST |  |  |   |   |   |   | Thunderstorm Winds   |
| Scattered trees and power lines downed throughout the north east section of the county.                                  |    |         |  |  |   |   |   |   |                      |
| 1W Cambridge City<br>Wayne County  | 23 | 1550EST |  |  | 0 | 0 | 3 | 0 | Thunderstorm Winds   |
| Trees and power lines downed.  |    |         |  |  |   |   |   |   |                      |
| NW Fayette County  | 23 | 1555EST |  |  | 0 | 0 | 3 | 0 | Thunderstorms, Winds |
| Trees and power lines down in the northwest sector of the county.  |    |         |  |  |   |   |   |   |                      |
| Richmond<br>Wayne County   | 23 | 1605EST |  |  |   |   | 3 |   | Thunderstorm         |
| Window blown out of a house, trees uprooted on southside of city.  |    |         |  |  |   |   |   |   |                      |
| 1M. Connersville   | 23 | 1615EST |  |  | 0 | 0 | 0 | 0 | Thunderstorm Winds   |
| Trees uprooted just north of Connersville.   |    |         |  |  |   |   |   |   |                      |
| Liberty<br>Union County  | 23 | 1630EST |  |  | 0 | 0 | 0 | 0 | Hail                 |
| 3/4 inch hail reported.  |    |         |  |  |   |   |   |   |                      |
| Muncie, Delaware<br>County   | 23 | 2139EST |  |  | 0 | 0 | 0 | 0 | Thunderstorm Winds   |
| Strong thunderstorm winds uprooted trees.  |    |         |  |  |   |   |   |   |                      |
| Carmel<br>Hamilton County  | 23 | 2140EST |  |  | 0 | 0 | 3 | 0 | Thunderstorm Winds   |
| Large trees uprooted with some minor damage to a house.  |    |         |  |  |   |   |   |   |                      |
| Indianapolis<br>Marion County  | 23 | 2150EST |  |  | 0 | 0 | 3 | 0 | Thunderstorm         |
| Strong thunderstorm winds downed power lines.  |    |         |  |  |   |   |   |   |                      |
| Mooreland, Henry<br>County   | 23 | 2205EST |  |  | 0 | 0 | 0 | 0 | Thunderstorm Winds   |
| Numerous trees reported uprooted.  |    |         |  |  |   |   |   |   |                      |
| Hagerstown, Wayne<br>County  | 23 | 2230EST |  |  | 0 | 0 | 0 | 0 | Thunderstorm Winds   |
| Trees uprooted.  |    |         |  |  |   |   |   |   |                      |
| South Bend<br>St. Joseph County  | 29 | 1807EST |  |  | 0 | 0 | ? | ? | Hail                 |
| 3/4 inch diameter hail on north edge of city.  |    |         |  |  |   |   |   |   |                      |
| South Bend<br>St. Joseph County  | 29 | 1813EST |  |  | 0 | 0 | 2 | 0 | Lightning            |
| Lightning struck residence at 23606 Adams Road.  |    |         |  |  |   |   |   |   |                      |
| South Bend<br>St. Joseph County  | 29 | 1815EST |  |  | 0 | 0 | 3 | 0 | Wind                 |
| Semi-Trailer overturned in Airport Industrial Park.  |    |         |  |  |   |   |   |   |                      |
| Elkhart<br>Elkhart County  | 29 | 1816EST |  |  | 0 | 0 | ? | ? | Thunderstorm Winds   |
| Tree limbs down and power outages.   |    |         |  |  |   |   |   |   |                      |

## INDIANA

|  |    |                     |  |  |    |   |   |   |                         |
|--|----|---------------------|--|--|----|---|---|---|-------------------------|
| Michigan City<br>LaPorte County  | 29 | 1908EST             |  |  | 0  | 0 | ? | ? | Thunderstorm Winds      |
| Trees down, power outages, and street flooding.  |    |                     |  |  |    |   |   |   |                         |
| Osceola<br>St. Joseph County   | 29 | 1909EST             |  |  | 0  | 0 | 4 | 0 | Lightning               |
| Lightning struck residence at 709 Superior Street.   |    |                     |  |  |    |   |   |   |                         |
| Elkhart<br>Elkhart County  | 29 | 1934EST             |  |  | 0  | 0 | ? | ? | Hail                    |
| 1/2 inch diameter hail at SR120 and Co Rd 20.  |    |                     |  |  |    |   |   |   |                         |
| Elkhart<br>Elkhart County  | 29 | 1955EST             |  |  | 0  | 0 | ? | ? | Flooding                |
| Intersections and Underpasses flooded.   |    |                     |  |  |    |   |   |   |                         |
| Elkhart<br>Elkhart County  | 29 | 2000EST             |  |  | 0  | 0 | 5 | 0 | Lightning               |
| Global Glass Company destroyed by fire.  |    |                     |  |  |    |   |   |   |                         |
| South Bend<br>St. Joseph County  | 30 | 1900EST             |  |  | 0  | 0 | ? | ? | Thunderstorm            |
| Tree limbs down, power outages over large area of city.  |    |                     |  |  |    |   |   |   |                         |
| Pike County  | 31 | 1515EST             |  |  | 0  | 0 | 0 | 0 | Thunderstorm Winds      |
| Car overturned, no injuries reported, highway 57 E of Gibson County.   |    |                     |  |  |    |   |   |   |                         |
| Granger<br>St. Joseph County   | 31 | 2005EST             |  |  | 0  | 0 | ? | 0 | Hail, Wind              |
| 3/4 inch diameter hail and wind gusts estimated to 50 MPH.   |    |                     |  |  |    |   |   |   |                         |
| <b>13 IOWA</b>   |    |                     |  |  |    |   |   |   |                         |
| Northern Iowa  | 01 | Morning             |  |  | 0  | 0 | 5 | 0 | Thunderstorms and Winds |
| A band of thunderstorms entered the State in the early morning hours and tracked rapidly across Iowa by mid-morning. High winds and small hail were reported with these storms, and caused much minor damage. Heavier damage is detailed below. Across the State many trees and utility poles came down, and damaged objects as they fell - utility lines, sheds, cars and trucks, garages, the roofs of houses.   |    |                     |  |  |    |   |   |   |                         |
| Northwest Iowa   | 01 | 0025 CST - 0300 CST |  |  | 0  | 0 | 5 | 0 | Thunderstorms and Winds |
| 70 MPH winds were estimated in Rock Rapids. Fallen and damaged trees were reported, electrical outages ensued, and a tent-trailer was toppled and sustained damage at a nearby campground. Over 100 homes were damaged in Orange City, some of them extensively, as many trees and branches were blown onto them. Most of the residents who lost power had electrical service restored by noon. Small flash fires erupted at Pringhar and Paullina after tree limbs struck power lines. In Cherokee County damage was sustained by windows, roofs and cars and also a sign at a motel. Forty trees were uprooted between Webb and Marathon. A trailer was blown into a car in Paullina. Twenty-three docks and some boats were damaged on the east side of Big Spirit Lake. Many trees and limbs were felled by the wind in Peterson and damaged everything on which they fell. Farm outbuildings were damaged or destroyed in much of the area. A few of these included levelled barns. In Pocahontas County the roof of a silo was torn off and a windmill was toppled. A store front window was blown out at Rembrandt in Buena Vista County. |    |                     |  |  |    |   |   |   |                         |
| Clay County  | 1  | 0150 CST            |  |  | 0  | 1 | 3 | 0 | Lightning               |
| Lightning struck a house in Spencer. One of the residents was thrown out of bed by this and dislocated a jaw. Flying glass also cut his face. In the house, plaster was knocked off the walls, a window was broken, rafters damaged and exterior siding knocked off.   |    |                     |  |  |    |   |   |   |                         |
| North Central and Central Iowa   | 1  | 0300 - 0530CST      |  |  | 0  | 0 | 5 | 0 | Thunderstorms and Winds |
| The thunderstorms continued across Iowa and wrought damage along the path. Many trees and small outbuildings were destroyed in Humboldt County. Some of the worst damage occurred in Webster City, where winds destroyed a large barn, toppled trees onto houses, trucks and cars and brought down power and telephone lines. Trees and branches also were felled by the wind at Melbourne in Marshall County. A machine shed was destroyed at Albion. In Ft. Dodge, a tree blew onto the roof of a home and caused part of the ceiling to collapse. At Conrad, in Grundy County, golf-ball sized hail fell.   |    |                     |  |  |    |   |   |   |                         |
| East Central Iowa  | 01 | 0530-0830 CST       |  |  | 0  | 0 | 5 | 0 | Thunderstorms and Winds |
| Thunderstorms moved into Eastern Iowa and produced more havoc. Power outages occurred and cable service interrupted as trees and power lines went down. A 65-foot prefabricated classroom building at Kirkwood Community College was damaged beyond repair. A few trees were uprooted and limbs severed at Vinton in Benton County.  |    |                     |  |  |    |   |   |   |                         |
| Cedar County   | 01 | 2230 CST 15 50      |  |  | 0  | 1 | 5 | 0 | Tornado (F1)            |
| A tornado threw 3 vehicles off Interstate 80 near Iowa 38, injuring one truck driver, and went on to largely destroy a nearby home. The siding and the roof of the home were torn off and the windows broken as the tornado hit the house.   |    |                     |  |  |    |   |   |   |                         |
| Scott County   | 01 | 2300 CST .2         |  |  | 20 | 0 | 0 | 5 | 0 Tornado (F1)          |
| The roof was taken off a large building and several vehicles damaged as a tornado touched down in the Southwest Section of Davenport.  |    |                     |  |  |    |   |   |   |                         |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE                               | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM   |
|-------------------------------------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--|
|                                     |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |  |
| <b>IOWA</b>                         |      |                       |                        |                       |                |         |                  |       |  |
| Polk County                         | 02   | 0222 CST              | Brief Narrow           | 0                     | 0              | ?       | 0                | 0     | Tornado (FO)<br>A tornado was sighted by spotters at Polk City. No damage.   |
| Iowa                                | 03   | Afternoon & Evening   |                        | 0                     | 0              | 5       | 0                | 0     | Thunderstorms and Winds<br>A line of thunderstorms developed along a cold front and moved to the Southeast across Iowa. Strong winds, hail, very heavy rain and funnel clouds appeared along with these. Lightning struck many trees but even more were felled by the wind. This caused problems to nearby utility lines, cars, trucks, houses and garages. Some minor flooding ensued with the heavy downpours.                           |
| Wright County                       | 03   | 1500 CST              |                        | 0                     | 0              | 4       | 4                | 0     | Thunderstorms and Winds<br>Winds estimated as high as 80 MPH toppled two buildings on a farm east of Belmond. Some pigs were lost when the barn collapsed. Pea sized hail also damaged the crops.  |
| Cerro Gordo County                  | 03   | 1530 CST              |                        | 0                     | 0              | 4       | 4                | 0     | Thunderstorm and Winds<br>High winds and small hail caused damage to property and crops near Thornton. Hog houses were destroyed and other outbuildings were damaged. The heavy rain and hail both damaged corn and bean crops.  |
| Franklin County                     | 03   | 1545 CST              |                        | 0                     | 2              | 5       | 0                | 0     | Thunderstorm and Winds<br>Two people received minor injuries when a tree fell onto their motor home and smashed the roof in. About \$100,000 damage occurred to 10 vehicles in Sheffield when reportedly rotten trees fell onto them.  |
| Mitchell, Floyd and Howard Counties | 03   | 1600-1630 CST         |                        | 0                     | 0              | 5       | 0                | 0     | Thunderstorms and Winds<br>High winds destroyed a machine shed and cattle shed at a farm west of Riceville, and destroyed a machine shed on a farmstead north of New Haven. Northeast of Riceville, three large grain bins were destroyed. At Colwell, the doors and half the roof of a storage shed were taken off. The roof of the Colwell Cooperative building was taken off. In addition numerous trees and utility poles were felled. |
| Boone County                        | 03   | 1600 CST              |                        | 0                     | 0              | 0       | 0                | 0     | Funnel Cloud<br>A funnel cloud was sighted in the vicinity of Grand Junction.  |
| Union County                        | 03   | 1702 CST              | Short Narrow           | 0                     | 0              | ?       | 0                | 0     | Tornado (FO)<br>A tornado was sighted by the County Sheriff's Department 6 miles west of Creston.  |
| Fayette County                      | 03   | 1725 CST              | .1                     | 20                    | 0              | 0       | 4                | 4     | Tornado (F1)<br>A tornado took the roof off a shed on a farmstead 8 miles Northwest of West Union. A chopper box was moved and damaged and a strip of corn in a field was flattened.   |
| Polk County                         | 03   | 1727 CST              |                        | 0                     | 0              | 0       | 0                | 0     | Funnel Cloud<br>A funnel cloud or clouds were observed by the police at the Ponderosa Country Club in West Des Moines.   |
| Polk County                         | 03   | 1745 CST              |                        | 0                     | 0              | 0       | 0                | 0     | Thunderstorms Wind & Hail<br>Sixty-five MPH winds and 1/2 to 3/4 inch hail were reported by an observer in Ankeny.   |
| Allamakee County                    | 03   | 1745 - 1800 CST       |                        | 0                     | 0              | 5       | 0                | 0     | Thunderstorms and Winds<br>High winds demolished a 50x100 foot shed and tore off half the roof of the barn at a farmstead west of Waukon. The steel framework on an addition to a school in Postville collapsed in the wind.   |
| Dubuque County                      | 03   | 2000 CST              |                        | 0                     | 0              | 5       | 0                | 0     | Thunderstorm and Winds<br>Winds brought down a high voltage distribution feeder line and caused an outage for more than an hour in parts of the County.  |
| Scott County                        | 03   | 2200 - 2230 CST       |                        | 0                     | 0              | 5       | 0                | 0     | Thunderstorm and Wind<br>High winds caused a barn to collapse on a farm near Blue Grass. Two cows were killed as a result. A half-dozen trees were uprooted or split, power lines snapped, and a propane tank flipped upside down. At a home in Bettendorf a large tree fell, destroying a porch and damaging two cars.  |
| Plymouth County                     | 18   | 0655-0730 CST         |                        | 0                     | 0              | 4       | 0                | 0     | Thunderstorms and Winds<br>Strong winds moved a barn off its foundation, blew the roof off the cattle, hog and machine sheds on a farm Southeast of LeMars.  |
| Winneshiek County                   | 19   | 1840 CST              |                        | 0                     | 0              | 4       | 0                | 0     | Thunderstorms and Winds<br>Strong thunderstorm winds caused many limbs and whole trees to fall, downing power lines and blocking streets in Decorah.   |
| Polk County                         | 22   | Afternoon             |                        | 1                     | 0              | 0       | 0                | 0     | Heat Wave<br>A 58-year old man in Des Moines apparently died of heat stress in an apartment without air conditioning.  |
| Calhoun County                      | 22   | 1620 CST              |                        | 0                     | 0              | ?       | 0                | 0     | Thunderstorms and Winds<br>Heavy rain, small hail and winds up to 60 MPH struck in a thunderstorm at Rockwell City.  |
| Plymouth County                     | 22   | 1900 CST              |                        | 0                     | 0              | 5       | 4                | 0     | Thunderstorms Wind and Hail<br>Winds downed many trees in and around Akron, causing power lines to fall and smashing cars, roofs and mobile homes. Hail caused damage to corn and beans at area farms. A garage was lifted off its foundation and deposited in an adjoining field.   |
| Allamakee County                    | 23   | Morning               |                        | 1                     | 0              | 0       | 0                | 0     | Heat Wave<br>A 14 year old girl died of heat stress at her grandparents house.   |

| PLACE   | DATE  | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM   |
|---|-------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--|
|   |       |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |  |
| <b>IOWA</b>   |       |                       |                        |                       |                |         |                  |       |  |
| Benton County   | 23    | Daytime               |                        | 1                     | 0              | 0       | 0                | 0     | Heat Wave<br>A rural Vinton woman was found dead with her dog in a tightly closed mobile home.   |
| Sac County  | 28    | 1830 CST              |                        | 0                     | 0              | 4       | 0                | 0     | Thunderstorm and Winds<br>Several farms had damage to outbuildings and equipment and minor damage to a home in high winds.   |
| Page County   | 28    | 1830 CST              |                        | 0                     | 0              | 5       | ?                | 0     | Damaging Winds<br>Thunderstorm winds, gusts estimated 50 to 80 MPH struck Shenandoah. Many trees were blown down blocking streets. One home was damaged by a fallen tree. Power lines, signs and a few roofs suffered damages. A number of windows were blown out in downtown businesses.  |
| Marshall  | 28    | 1950 CST              |                        | 0                     | 0              | 5       | 0                | 0     | Thunderstorms and Winds<br>High winds in a thunderstorm downed trees and power lines and damaged a garage and two mobile homes in State Center.  |
| <b>14 KANSAS</b>  |       |                       |                        |                       |                |         |                  |       |  |
| Alma, Wabaunsee County  | 03    | 1759CST               |                        | 0                     | 0              | 0       | 0                | 0     | Funnel<br>A funnel dropped out of the clouds for a short time 20 miles east of Alma.   |
| Sedgwick, Reno, Harvey and Butler Counties  | 03-04 | 1800-0230CST          |                        | 0                     | 0              | 6       | 6                | 0     | Flooding, Wind Funnel<br>Thunderstorms dropped 2 to as much as 6 inches of rain on an area about 40 miles wide centered on a line from Hutchinson to Wichita then east across southern Butler County to Beaumont. Runoff sent several small streams out of their banks. The worst flooding occurred along Cowskin Creek in northwest Wichita and on Gypsum Creek on Wichita's southeast side. Some 200 people left their homes to escape the flood. More than a dozen homes near Gypsum Creek were damaged and basements of several homes near Cowskin Creek were filled with water. Both creeks were back in their banks by mid-morning on the 4th.<br><br>The thunderstorms also produced some strong wind gusts. Power lines were downed and trees damaged at Augusta at 2136CST. The combination of heavy rain and wind left considerable damage to the wheat crop which was ready for harvest. A funnel was also seen at 1939CST near Sedgwick. |
| McPherson, McPherson County   | 03    | 1830-1930CST          |                        | 0                     | 0              | 4       | 4                | 0     | Wind, Hail<br>A thunderstorm dropped marble size hail and damaged crops as it moved across the central part of McPherson County. A localized downburst wind also lifted the garage roof and tore the carport from a home a mile south of McPherson.  |
| Marion, Marion County   | 03    | 1835CST               |                        | 0                     | 0              | 0       | 0                | 0     | Funnel<br>A funnel was sighted west of Marion.   |
| Douglas and Johnson Counties  | 24    | 1630-1730CST          |                        | 0                     | 0              | 4       | 0                | 0     | Wind<br>Thunderstorms packing strong wind gusts moved from southern Douglas County northeast across Johnson County. A barn was destroyed 8 miles south of Lawrence at 1630, trees were uprooted in a 6 mile long strip from southwest of DeSoto to just east of the town, and minor damage was done to some homes on the Kansas side of the Kansas City Metropolitan area.   |
| Russell, Russell County   | 28    | 1737CST               |                        | 0                     | 0              | 4       | 0                | 0     | Wind<br>A thunderstorm downburst wind gust measured at 109 mph hit the Russell Airport. Damage was limited to the area within 3/4 mile of the Airport. Thirty-six power poles were broken off but most other damage was minor.   |
| Wakefield, Clay County  | 28    | 1850CST               |                        | 0                     | 0              | 3       | 0                | 0     | Wind<br>A thunderstorm wind gust was estimated at 60 to 70 mph at Wakefield. Only minor damage resulted.   |
| Wellington, Sumner County   | 30    | 1800CST               |                        | ?                     | 0              | 0       | 0                | 0     | Lightning<br>A woman was killed when she was struck by lightning during a thunderstorm at Wellington. She was in her yard watering flowers when she was hit.   |
| Blue Mound, Linn County   | 31    | 1310CST               | Short Narrow           | 0                     | 0              | 0       | 0                | 0     | Tornado (FO)<br>A tornado touched ground very briefly twice about 3 miles south of Blue Mound near the Bourbon County line.  |
| Special Hail Summary  |       |                       |                        |                       |                |         |                  |       |  |
| Kansas-Oklahoma Hail Loss Service reports indicate hail was especially damaging to crops on the following dates in the listed counties: |       |                       |                        |                       |                |         |                  |       |  |
| 3 Butler, Harvey, McPherson, Morris, Reno, Sedgwick   |       |                       |                        |                       |                |         |                  |       |  |
| 11 Haskell  |       |                       |                        |                       |                |         |                  |       |  |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE   | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED* DAMAGE |       | CHARACTER OF STORM   |
|---|------|-----------------------|------------------------|-----------------------|----------------|---------|-------------------|-------|--|
|   |      |                       |                        |                       | KILLED         | INJURED | PROPERTY          | CROPS |  |
| <b>15 KENTUCKY</b>                                |      |                       |                        |                       |                |         |                   |       |  |
| Simpson County                                    | 01   | 0300EST               |                        |                       | 0              | 0       | 4                 | 0     | Thunderstorm Winds   |
|   |      |                       |                        |                       |                |         |                   |       | Strong thunderstorm winds blew down two barns and several trees in Middleton.  |
| Todd County                                       | 02   | AFTN                  |                        |                       | 0              | 0       | 4                 | 0     | Lightning  |
|   |      |                       |                        |                       |                |         |                   |       | Twenty-five cows within a five foot radius of each other were struck by lightning and killed in Clifty. The cows were valued at \$10,000.  |
| Ballard, Carlisle, McCracken, and Graves Counties | 03   | ERLY MRNG             |                        |                       | 1              | 0       | 4                 | 4     | Flash Flooding   |
|   |      |                       |                        |                       |                |         |                   |       | A torrential downpour dumped nearly 5 1/2 inches of rain in just a matter of hours causing creeks in and around Mayfield to overflow their banks. The result was widespread flooding that forced scores of residents from their homes and left one 63 year old man dead after his auto was swept away by the swiftly rising waters. Bridges were washed out. Some animals drowned. Soy beans and corn fields were inundated. Mayfield and Lovelaceville were the hardest hit. Several lives were threatened but fortunately only one fatality was attributed to the flash flooding. Kentucky State Police reported water over roads and in areas usually not affected by flooding. |
| Knox County                                       | 03   | AFTN                  |                        |                       | 0              | 0       | 3                 | 0     | Thunderstorm Winds   |
|   |      |                       |                        |                       |                |         |                   |       | Strong thunderstorm winds destroyed a shed and scattered piled lumber at a residence in Barbourville. The rubble damaged a 1979 Mustang and knocked a post off of a front porch.   |
| Taylor County                                     | 03   | 1830EST               |                        |                       | 0              | 0       | 3                 | 0     | Thunderstorm Winds   |
|   |      |                       |                        |                       |                |         |                   |       | Wind damage was reported at the Taylor County boat dock on the Green River Lake.   |
| Grayson County                                    | 03   | 2010EST               |                        |                       | 0              | 0       | 2                 | 0     | Thunderstorm Winds   |
|   |      |                       |                        |                       |                |         |                   |       | Trees were blown down in Caneyville.   |
| Butler County                                     | 03   | 2030EST               |                        |                       | 0              | 0       | 3                 | 0     | Thunderstorm Winds   |
|   |      |                       |                        |                       |                |         |                   |       | Power lines and trees were reported downed in northeast Butler County by the Fire Chief at Morgantown.   |
| Perry County                                      | 04   | 1300EST               |                        |                       | 0              | 0       | 3                 | 0     | Thunderstorm Winds   |
|   |      |                       |                        |                       |                |         |                   |       | Tree limbs and power lines were reported blown down in Hazard. Also a part of a roof was blown off the east corner of Hazard's City Hall.  |
| McCracken County                                  | 04   | 1330EST               |                        |                       | 0              | 0       | 4                 | 0     | Thunderstorm Winds   |
|   |      |                       |                        |                       |                |         |                   |       | A mid-afternoon thunderstorm with winds up to 50 MPH ended the 4th of July weekend at Paducah with power outages, blocked streets and some property damage caused by fallen trees. Damage was widespread to buildings, vehicles, fences, and signs in the path of fallen trees. One boat overturned on Kentucky Lake. Electrical power was knocked out to 2000 residents. Hail, 1/4 to 1/2 inch in diameter, was also reported at Paducah.   |
| Boone County                                      | 04   | 1521EST               |                        |                       | 0              | 0       | 5                 | 0     | Thunderstorm Winds   |
|   |      |                       |                        |                       |                |         |                   |       | A late afternoon thunderstorm sent trees crashing into houses, downed power lines in Walton and severely damaged several buildings. One of the hardest hit buildings was the Benton and Bonar Department Store. \$150,000 damage was sustained to the business after high winds ripped off a third of the roof and shattered plate glass windows. Water damage was extensive to merchandise.   |
| Garrard County                                    | 04   | AFTN                  |                        |                       | 0              | 0       | 4                 | 0     | Thunderstorm Winds   |
|   |      |                       |                        |                       |                |         |                   |       | New homes under construction in the Buena Vista section of Garrard County suffered major damage when high winds went through the area.   |
| Jefferson & Oldham Counties                       | 04   | 1530EST               |                        |                       | 0              | 0       | 4                 | 0     | Thunderstorm Winds   |
|   |      |                       |                        |                       |                |         |                   |       | Thunderstorm winds of 40 to 50 MPH blew tree limbs and power lines down in several sections of Louisville and Oldham County.   |
| <b>— KENTUCKY</b>                                 |      |                       |                        |                       |                |         |                   |       |  |
| Ohio County                                       | 04   | AFTN                  |                        |                       | 0              | 0       | 4                 | 0     | Thunderstorm Winds   |
|   |      |                       |                        |                       |                |         |                   |       | Extremely high winds that buffeted a section of Hartford caused considerable property damage, destroyed several trees, and interrupted electrical power service.   |
| Harlan County                                     | 04   | 1600EST               |                        |                       | 0              | 0       | 3                 | 0     | Thunderstorm Winds   |
|   |      |                       |                        |                       |                |         |                   |       | High winds blew a large tree limb from a tree growing along Kentucky 227, 5 miles northwest of Georgetown causing it to fall on a car damaging its hood and windshield.  |
| Clay County                                       | 04   | EVE                   |                        |                       | 0              | 0       | 3                 | 0     | Thunderstorm Winds   |
|   |      |                       |                        |                       |                |         |                   |       | High winds uprooted some large trees and knocked power lines down resulting in a power failure throughout most of Clay County.   |
| Warren County                                     | 04   | 2345EST               |                        |                       | 0              | 0       | 4                 | 0     | Lightning  |
|   |      |                       |                        |                       |                |         |                   |       | A 39 year old man died in a trailer fire that was caused by lightning in Bowling Green. The cause of death was smoke inhalation. The trailer was valued at \$20,000.   |
| Statewide   | 10   | 1500EST               |                        |                       | 42             | 0       | 0                 | 6     | Heat Wave  |
|   |      |                       |                        |                       |                |         |                   |       | A heat wave swept across the state of Kentucky during the final two-thirds of July. The state was declared in a state of emergency on July 22, 1983, by the acting Governor, Martha Layne Collins, when the excessive heat started taking lives. Forty-two people died throughout Kentucky as a result of the heat. 34 of those 42 deaths were in Louisville (Jefferson County).   |
|   |      |                       |                        |                       |                |         |                   |       | Precautions were taken by agencies by opening cooling shelters as temperatures continued to range from 95 - 105°. Fans, air-conditioners, and leaflets on how to prevent heat exhaustion were widely distributed to the elderly and poor. Kentucky's crops suffered extensively, hit by both excessive dryness and heat.   |
|   |      |                       |                        |                       |                |         |                   |       | The heat wave continued on into August, 1983.  |
| Clark County                                      | 14   | 1500EST               |                        |                       | 0              | 0       | 3                 | 0     | Lightning  |
|   |      |                       |                        |                       |                |         |                   |       | Lightning split 3 utility poles in Winchester causing widespread power outages.  |
| Fayette County                                    | 14   | 1605EST               |                        |                       | 0              | 0       | 5                 | 0     | Thunderstorm Winds and Lightning   |
|   |      |                       |                        |                       |                |         |                   |       | Large branches were blown from trees and cars sputtered through flooded sections of Lexington's downtown streets where water reached two feet deep.  |
|   |      |                       |                        |                       |                |         |                   |       | Lightning struck a Lexington home but damage to the home's exterior was light. Lightning also struck a horse barn in the Lexington area that ignited a fire killing six horses valued at \$400,000 and gutted the barn worth \$90,000.   |
| Woodford County                                   | 14   | 1730EST               |                        |                       | 0              | 0       | 2                 | 0     | Lightning  |
|   |      |                       |                        |                       |                |         |                   |       | Lightning struck a connecting transmitter causing power outages in Versailles.   |
| Pulaski County                                    | 14   | 2210EST               |                        |                       | 0              | 0       | 4                 | 0     | Lightning  |
|   |      |                       |                        |                       |                |         |                   |       | Lightning caused a fire on Dry Branch Road in Elihu completely destroying a mobile home.   |
| Scott County                                      | 15   | 1725EST               |                        |                       | 0              | 0       | 2                 | 3     | Lightning  |
|   |      |                       |                        |                       |                |         |                   |       | Lightning reportedly struck a late model Thunderbird car traveling on Interstate 75 through Scott County. Lightning hit the antenna on the car burning a hole around the antenna.  |
| Breckinridge County                               | 17   | 1600 EST              |                        |                       | 0              | 0       | 2                 | 3     | Thunderstorm Winds and Hail  |
|   |      |                       |                        |                       |                |         |                   |       | Strong winds uprooted a dozen trees and scattered hail damaged several tobacco and corn crops in Bewleyville.  |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE  | DATE  | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM               |
|--|---|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|----------------------------------|
|  |   |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                                  |
| <b>KENTUCKY</b>                              |   |                       |                        |                       |                |         |                  |       |                                  |
| Edmonson County                              | 17  | AFTN                  |                        |                       | 0              | 0       | 4                | 0     | Thunderstorm Winds               |
|  | Strong thunderstorm winds toppled antennae and trees, damaged roofs and interrupted electrical power in Brownsville. Cable television equipment in Brownsville sustained \$14,000 worth of damage when equipment on the satellite dish was knocked out. Several trees were also downed in Rhoda.  |                       |                        |                       |                |         |                  |       |                                  |
| Edmonson County                              | 17  | AFTN                  |                        |                       | 0              | 1       | 2                | 0     | Lightning                        |
|  | A Grassland girl was injured when lightning struck a truck she was leaning on.  |                       |                        |                       |                |         |                  |       |                                  |
| Butler County                                | 17  | 1800EST               |                        |                       | 0              | 0       | 3                | 0     | Thunderstorm Winds               |
|  | Strong thunderstorm winds ripped a roof off a barn and broke tops off many trees in Pleasant Hill.  |                       |                        |                       |                |         |                  |       |                                  |
| Wayne County                                 | 18  | 2030EST               |                        |                       | 0              | 0       | 4                | 0     | Thunderstorm Winds               |
|  | Severe thunderstorm winds swept the Cabell community and the Lake Cumberland Boys Camp. About 40 trees, some measuring up to 3 feet in diameter were uprooted by the storm. Power lines were downed. Portions of chain link fence enclosing the tennis and basketball courts were heavily damaged. A small boat dock was ripped from its moorings. A nearby swimming float built of seven tons of metal was twisted. Tents were wrapped around trees.   |                       |                        |                       |                |         |                  |       |                                  |
| Casey County                                 | 19  | 0100EST               |                        |                       | 0              | 0       | 3                | 0     | Lightning                        |
|  | Three cows and five calves worth \$2,500 were struck and killed by lightning on a farm in Mintonville.  |                       |                        |                       |                |         |                  |       |                                  |
| Robertson County                             | 19  | 1700EST               |                        |                       | 0              | 0       | 2                | 0     | Thunderstorm Winds               |
|  | Trees were blown down near Mt Olivet by strong thunderstorm winds.  |                       |                        |                       |                |         |                  |       |                                  |
| Whitley County and Laurel County             | 19  | 2100EST               |                        |                       | 0              | 0       | 3                | 2     | Thunderstorm Winds and Lightning |
|  | Large trees were blown down in Woodbine (Whitley County), by strong gusting winds. Damaging hail, of unknown size, was also reported. A brilliant lightning storm that accompanied the storm struck a trailer home of a Keavy (Laurel County), resident causing minor fire and smoke damage.  |                       |                        |                       |                |         |                  |       |                                  |
| Laurel County                                | 19  | 2105EST               |                        |                       | 0              | 0       | 2                | 0     | Thunderstorm Winds               |
|  | 50 MPH winds reported at the airport in London.   |                       |                        |                       |                |         |                  |       |                                  |
| Harrison and Bourbon Counties                | 21  | 1315EST               |                        |                       | 0              | 0       | 5                | 0     | Lightning                        |
|  | Four Holstein dairy cows, grazing 3 miles west of Cynthiana, and three thoroughbred horses, located on the Harrison/Bourbon County line were killed by lightning. The livestock was valued at \$350,000.  |                       |                        |                       |                |         |                  |       |                                  |
| Floyd County                                 | 23  | AFTN                  |                        |                       | 0              | 0       | 2                | 0     | Thunderstorm Winds               |
|  | Trees were uprooted in Prestonburg.   |                       |                        |                       |                |         |                  |       |                                  |
| Lee County                                   | 23  | 1500EST               |                        |                       | 0              | 0       | 4                | 0     | Thunderstorm Winds               |
|  | Winds of 60 miles an hour left hundreds of broken trees, some blocking roads and windows broken in three business establishments of Beattyville. A Roof was torn off a house trailer. Power outages of up to 28 hours were reported throughout the county.  |                       |                        |                       |                |         |                  |       |                                  |
| Todd County                                  | 25  | 0015EST               |                        |                       | 0              | 0       | 2                | 0     | Thunderstorm Winds               |
|  | 60 MPH winds were reported at Elkton.   |                       |                        |                       |                |         |                  |       |                                  |
| Christian County                             | 25  | 0015EST               |                        |                       | 0              | 0       | 3                | 0     | Thunderstorm Winds               |
|  | Trees were uprooted and power lines were downed in Hopkinsville.  |                       |                        |                       |                |         |                  |       |                                  |
| Warren County                                | 25  | 0030EST               |                        |                       | 0              | 0       | 1                | 2     | Small Hail                       |
|  | Small hail was reported south of Bowling Green.   |                       |                        |                       |                |         |                  |       |                                  |
| <b>16 LOUISIANA</b> ————— NO REPORT RECEIVED |   |                       |                        |                       |                |         |                  |       |                                  |
| <b>17 MAINE</b>                              |   |                       |                        |                       |                |         |                  |       |                                  |
| Cumberland and Kennebec Counties             | 02  | 1400EST               |                        |                       | 0              | 0       | 5                | 0     | Thunderstorms                    |
|  | Thunderstorms rumbled across southwest Maine, producing excessive rain which did an estimated \$100,000 worth of damage to sidewalks and streets in Portland, and the rear section of a Congress Street lot, along with its 15 foot retaining wall, collapsed. Portland recorded .85 inches in 10 minutes and 1.32 inches in 45 minutes. In Cumberland, winds toppled several large trees, cutting off power and traffic for a short time. In Augusta, lightning caused a \$3,000 apartment fire.   |                       |                        |                       |                |         |                  |       |                                  |
| Knox County                                  | 13  | 0400EST               |                        |                       | 0              | 0       | 4                | 0     | Lightning                        |
|  | Lightning caused a blackout to 3,300 customers in Thomaston, Cushing, St. George, Spruce Head, and Warren for several hours.  |                       |                        |                       |                |         |                  |       |                                  |
| Hancock and Knox Counties                    | 15  | 1730EST               |                        |                       | 0              | 0       | 6                | 0     | Lightning                        |
|  | Thunderstorms produced lightning which ignited a fire that destroyed an estimated \$1,000,000 worth of boats and equipment at a Hall Quarry boat yard on Mt. Desert Island. Another lightning bolt sparked a fire that destroyed a cottage in Warren.   |                       |                        |                       |                |         |                  |       |                                  |
| Kennebec, Franklin, Oxford and Knox Counties | 22  | 0630EST               |                        |                       | 0              | 0       | 5                | 0     | High Winds                       |
|  | A cold frontal passage Thursday and a developing ocean storm on the front, combined to produce a strong north to northwest wind over southwestern Maine. The high winds toppled many trees and snapped off large tree limbs, causing numerous power and telephone outages, blocking roads and impeding travel, especially in the Augusta-Waterville area and in Wilton. Peak gusts of 55 mph were reported by the Augusta FSS, while Portland recorded several gusts to 40 mph. A large chestnut tree fell and damaged 3 cars in Camden. In Hiram, a 200 year old pine tree, 5 feet in diameter and 5 stories tall, was uprooted and sliced through the roof of a farmhouse that was built in 1826.   |                       |                        |                       |                |         |                  |       |                                  |
| Arroostook County, Mars Hill                 | 24  | 1400EST               |                        |                       | 1              | 1       | 0                | 0     | Lightning                        |
|  | A father with his son and daughter took refuge under a tree during a thunderstorm. The lightning bolt that struck the teenage son, knocked the father unconscious, and apparently left the 12 year old unharmed. Efforts to revive the teenager were fruitless.   |                       |                        |                       |                |         |                  |       |                                  |
| <b>18 MARYLAND and D.C.</b>                  |   |                       |                        |                       |                |         |                  |       |                                  |
| Central and District of Columbia             | 4   | Afternoon-Evening     |                        |                       | 1              | 3       | 5                | 0     | Wind, Lightning                  |
|  | Tree and power line damage occurred over many locations as thunderstorms developed ahead of a cold front. Gusty winds drove a couple of boats ashore in upper Chesapeake Bay..with several boaters tossed into the water. Sherwood Forest, near Annapolis, caught the brunt of the storm as 75 to 100 trees were toppled onto homes, autos and at least one boat. Eleven vehicles were reported smashed by tree trunks or limbs. Lightning took the life of an Anne Arundel County man as he was tying up his boat at a South River dock. In Baltimore County a golfer was seriously injured by a bolt of lightning that struck his golf bag. On the Mall in Washington, D.C., the fireworks entertainment program had to be delayed due to a thunder squall at about 6PM.                                    |                       |                        |                       |                |         |                  |       |                                  |
| Cambridge                                    | 19  | Morning               |                        |                       | 0              | 0       | 3                | 0     | Rain, Wind                       |
|  | A thunder squall dropped over 2 inches of rain on the city, and downed trees and power lines. A 16-foot boat was swamped on the Choptank River, its occupants were rescued from bridge pilings that they were clinging to.  |                       |                        |                       |                |         |                  |       |                                  |
| Pocomoke City                                | 19  | Afternoon             |                        |                       | 0              | 0       | 4                | 0     | Wind, Rain                       |
|  | Thunderstorm wind caused various property damage, including an automobile that was demolished by a falling tree. Minor local flooding was also reported.  |                       |                        |                       |                |         |                  |       |                                  |
| Montgomery County & District of Columbia     | 19  | Evening               |                        |                       | 0              | 0       | 4                | 0     | Wind, Hail                       |
|  | Winds that gusted up to 60 mph disrupted power over sections of Montgomery County around 7PM. Three-quarter-inch hail also fell. Later, lightning struck a home in Washington, D.C. causing a fire in the attic.  |                       |                        |                       |                |         |                  |       |                                  |
| Northeastern                                 | 21  | 1800-2000EST          |                        |                       | 0              | 4       | 6                | 0     | Wind                             |
|  | Severe thunderstorms caused considerable damage from Carroll, eastward through Cecil and Kent Counties. Falling trees were particularly damaging to property, with wind gusts estimated at from 50 to 75 mph. Downed trees were responsible for 4 injuries and severe damage to at least 7 autos. A home in Hampstead, Carroll County, had an estimated \$35-40,000 damage as a large tree crashed into it. The storm brought havoc to electrical service, with 100 power poles snapped off and 350 power lines across roadways. At Rock Hall, Kent County, a campsite had \$90,000 damage as winds overturned trailers and trees were uprooted. The walls of an old building collapsed in Baltimore, showering bricks over parked cars, while in Fredericktown, Cecil County, a marina was severely damaged. |                       |                        |                       |                |         |                  |       |                                  |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE   | DATE | TIME - LOCAL STANDARD        | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |        | ESTIMATED <sup>1</sup> DAMAGE |       | CHARACTER OF STORM   |
|---|------|------------------------------|------------------------|-----------------------|----------------|--------|-------------------------------|-------|--|
|   |      |                              |                        |                       | KILLED         | INURED | PROPERTY                      | CROPS |  |
| <b>MARYLAND and D.C.</b>  |      |                              |                        |                       |                |        |                               |       |  |
| Southern Eastern Shore  | 21   | 2000-2200EST                 |                        |                       | 0              | 0      | 4                             | 5     | Hail, Wind   |
| <p>In southern Worcester County winds caused several thousand dollars damage in the Stockton area, along with corn crops stripped by hail. Tree damage occurred at a residence in Pocomoke City and scattered damage was also reported in Dorchester County near the community of Golden Hill.</p> <p>NOTE.....<br/>Heat and drought, besides severe weather, also had an impact over the Maryland area during the month. Official stations only had an average 1.30 inches of rain for July, compared to the previous record low of 1.47 inches back in 1930. High temperatures were at least partly responsible for the deaths of 4 Maryland residents and 2 persons living in Washington, D.C.</p> |      |                              |                        |                       |                |        |                               |       |  |
| <b>19 MASSACHUSETTS</b>   |      |                              |                        |                       |                |        |                               |       |  |
| Western Portion   | 05   | Afternoon                    |                        |                       | 0              | 0      | 4                             | 0     | Lightning, Heavy Rain, Local Flooding  |
| <p>A severe thunderstorm with frequent lightning strikes and heavy rain moved through western MA. A fire started by lightning gutted a house in Chicopee, damaged a home in Belchertown, and caused numerous power failures. Most of West Springfield lost power. Town offices were severely flooded by a deluge of rain in the town of Pepperell.</p>  |      |                              |                        |                       |                |        |                               |       |  |
| Berlin  | 05   | 1630EST                      |                        |                       | 0              | 1      | 0                             | 0     | Lightning  |
| <p>A teenager was knocked down by a bolt of lightning while standing in the driveway of his home. He was not seriously injured.</p>   |      |                              |                        |                       |                |        |                               |       |  |
| E. Lexington  | 18   | 1530-1535EST                 | 0.4                    | 20                    | 0              | 0      | 2                             | 0     | Tornado (FO)   |
| <p>A very small tornado skipped along a narrow path uprooting a few large trees and breaking limbs off others. No damage to buildings was found by N.W.S. investigation.</p>  |      |                              |                        |                       |                |        |                               |       |  |
| S. Amherst and Hadley Area  | 21   | About 1545EST                |                        |                       | 0              | 0      | 0                             | 0     | Funnels  |
| <p>Funnel clouds were sighted in the area and some unconfirmed reports have it that there was a touchdown in the area. In S. Amherst a report of several large trees being snapped off and others twisted out of the ground were received.</p>  |      |                              |                        |                       |                |        |                               |       |  |
| Spencer and East Brookfield   | 21   | 1620-1625EST                 |                        |                       | 0              | 0      | 0                             | 0     | Funnels  |
| <p>A state trooper reported a funnel cloud near Route 149. Another was observed in Spencer.</p>   |      |                              |                        |                       |                |        |                               |       |  |
| Hampshire, Worcester, Middlesex, Essex, Bristol Counties  | 21   | Late Afternoon Early Evening |                        |                       | 0              | 3      | 5                             | 0     | Thunderstorm Winds, Lightning, Hail  |
| <p>Severe thunderstorms moved through the area and funnel clouds that were reported in several towns prompted the issuance of tornado warnings in Worcester county. Winds, which reached gusts estimated to 70 and 80 MPH, in the Dracut, Methuen, Leominster, Haverhill area blew down many trees and tree limbs causing injury to several persons. Automobile windshields smashed by the falling tree limbs were reported in Leominster and Dracut. Power was knocked out in the area, including all of Haverhill, and the roof was blown off a country club in Methuen.</p>  |      |                              |                        |                       |                |        |                               |       |  |
| Salisbury   | 21   | 1700-1730EST                 |                        |                       | 0              | 6      | 3                             | 0     | Thunderstorm Winds   |
| <p>Thunderstorm winds gusting up to an estimated 70 to 80 MPH ripped through the campground at the state reservation over turning two trailers and leveling about 30 tents. Six persons were injured by flying debris.</p>  |      |                              |                        |                       |                |        |                               |       |  |
| Statewide   | 22   | All Day                      |                        |                       | 0              | 0      | ?                             | 0     | High Winds   |
| <p>Unusually strong to gale force northwesterly winds for July caused by an intense low pressure center (29.2 inches) south of Nova Scotia blew down many tree limbs and even some trees causing scattered power failures throughout the state. At the Blue Hill Observatory, Milton, winds averaged 32 MPH for eight hours with frequent gusts over 50 MPH to a peak of 58 MPH.</p>  |      |                              |                        |                       |                |        |                               |       |  |
| Westfield and Springfield Area  | 24   | 1200-1300EST                 |                        |                       | 0              | 0      | 0                             | 0     | Lightning, Heavy Rain, Hail  |
| <p>A heavy thunderstorm caused scattered power outages due to lightning and the heavy rain caused some local street flooding.</p>   |      |                              |                        |                       |                |        |                               |       |  |
| <b>20 MICHIGAN</b>  |      |                              |                        |                       |                |        |                               |       |  |
| Southern Berrien County   | 01   | 0600-0630EST                 |                        |                       | 0              | 0      | 3                             | 0     | Thunderstorm   |
| Extreme Southern Lower Peninsula: Berrien County  | 01   | 1045-1400EST                 |                        |                       | 0              | 2      | 5                             | 0     | Thunderstorms  |
| <p>1045-1130EST Gusts to 65 mph. 6000 homes lost power. Many trees down. Some buildings damaged.</p>  |      |                              |                        |                       |                |        |                               |       |  |
| Van Buren County  |      | 1045-1145EST                 |                        |                       |                |        |                               |       | Power outages.   |
| Cass County   |      | 1100-1200EST                 |                        |                       |                |        |                               |       | Trees and wires down. 1000 homes lost power. Car crushed.  |
| Kalamazoo County  |      | 1100-1215EST                 |                        |                       |                |        |                               |       | 2500 homes in southern portion lost power. Trees blocked roads and smashed car. Some local flooding.   |
| St. Joseph County   |      | 1115-1215EST                 |                        |                       |                |        |                               |       | Narrow swath of wind damage north of Sturgis does not meet tornado criteria.   |
| Calhoun County  |      | 1130-1230EST                 |                        |                       |                |        |                               |       | Trees and limbs down. Gusts to 65 mph at Marshall. 6000 homes lost power.  |
| Branch County   |      | 1145-1230EST                 |                        |                       |                |        |                               |       | Trees and power lines down, mostly in northern sections.   |
| Jackson County  |      | 1200-1300EST                 |                        |                       |                |        |                               |       | Power lines down in southern sections. 8800 homes lost power.  |
| Ingham County   |      | 1215-1245EST                 |                        |                       |                |        |                               |       | Gust to 64 mph at Lansing.   |
| Hillsdale County  |      | 1220-1300EST                 |                        |                       |                |        |                               |       | Trees, limbs, and power lines down in northern sections.   |
| Washtenaw County  |      | 1245-1330EST                 |                        |                       |                |        |                               |       | Two men injured in Ypsilanti, one when camper trailer blew over, the other when tree fell on moving car. Gusts to 60 mph at Ann Arbor airport. 5000 homes, mostly in southwest portion, lost power. Buildings damaged in Saline. |
| Livingston County   |      | 1300-1330EST                 |                        |                       |                |        |                               |       | Local power outages extreme SE.  |
| Oakland County  |      | 1300-1345EST                 |                        |                       |                |        |                               |       | 2000 homes in southern portion lost power.   |
| Monroe County   |      | 1300-1345EST                 |                        |                       |                |        |                               |       | Local power outages northwest section.   |
| Wayne County  |      | 1245-1345                    |                        |                       |                |        |                               |       | 5000 homes lost power. Auto accident on wet road at Plymouth. Gust to 60 mph at Detroit Airport.   |
| Macomb County   |      | 1315-1400EST                 |                        |                       |                |        |                               |       | Trees and lines down.  |
| Iron Mountain, Dickinson County   | 03   | 2030EST                      |                        |                       | 0              | 0      | 4                             | 0     | Thunderstorm   |
| <p>Large building under construction destroyed.</p>   |      |                              |                        |                       |                |        |                               |       |  |
| Area bounded by Detroit, Flint, Cass City, and Port Huron:  | 04   | 1210-1400EST                 |                        |                       | 0              | 0      | 4                             | 0     | Thunderstorms  |
| Tuscola County  |      | 1210-1245                    |                        |                       |                |        |                               |       | Trees down near Cass City.   |
| Lapeer County   |      | 1220-1300                    |                        |                       |                |        |                               |       | Isolated power outages.  |
| Oakland County  |      | 1230-1315                    |                        |                       |                |        |                               |       | Trees and power lines down. 5000 homes lost power.   |
| St. Clair County  |      | 1245-1330                    |                        |                       |                |        |                               |       | 1250 homes lost power. Streets and roads flooded.  |
| Macomb County   |      | 1245-1330                    |                        |                       |                |        |                               |       | Wind damage near Washington.   |
| Wayne County  |      | 1330-1400                    |                        |                       |                |        |                               |       | Some lightning damage and local flooding in Harper Woods and extreme northeast Detroit.  |
| 2 miles SW of Whitmore Lake, Washtenaw County   | 14   | 1145EST                      |                        |                       | 0              | 6      | 1                             | 0     | Lightning  |
| <p>Six children injured, two seriously, after taking refuge from rain in wooden park pavilion.</p>  |      |                              |                        |                       |                |        |                               |       |  |
| South of Sturgis, Lansing, Fenton, and Mt. Clemens:   | 17   | 1045-1245EST                 |                        |                       | 1              | 8      | 5                             | 0     | Thunderstorm   |
| Eaton County  |      | 1045-1115                    |                        |                       |                |        |                               |       | Heavy rain and strong wind at Olivet.  |
| Branch County   |      | 1050-1120                    |                        |                       |                |        |                               |       | Several trees down, minor lightning damage.  |
| Ingham County   |      | 1055-1130                    |                        |                       |                |        |                               |       | Trees and power lines down near Leslie, service to 1000 customers interrupted. Unconfirmed funnel cloud reported northeast extremity of county.  |
| Jackson County  |      | 1115-2000                    |                        |                       |                |        |                               |       | 5000 homes without power. Three small lightning fires. Unconfirmed funnel cloud report at Clark Lake.  |
| Lenawee County  |      | 1130-1215                    |                        |                       |                |        |                               |       | Woman suffered fatal heart attack, 8 persons injured when canopy blew onto grandstand at Michigan International Speedway.  |
| Washtenaw County  |      | 1155-1230                    |                        |                       |                |        |                               |       | Unconfirmed funnel cloud over Ann Arbor. Power outage in Ypsilanti. Car skidded on slick road near Ypsilanti, injured one person.  |
| Oakland County  |      | 1200-1240                    |                        |                       |                |        |                               |       | Eight mobile homes damaged and several trees down near Holly.  |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE  | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM | PLACE  | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |   |
|--|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|--|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|---|
|  |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |  |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |   |
| <b>— MICHIGAN</b>  |      |                       |                        |                       |                |         |                  |       |                    | <b>— MICHIGAN</b>  |      |                       |                        |                       |                |         |                  |       |                    |   |
| Wayne County   |      |                       |                        |                       |                |         |                  |       |                    | 15 miles NW of Rogers City, Lake Huron County.                         | 21   | 0930EST               |                        |                       | 0              | 0       | 0                | 0     | Waterspout         |   |
| Monroe County  |      |                       |                        |                       |                |         |                  |       |                    | 3 miles S of Lake City to 2 miles N of Vogel Center, Missaukee County. | 21   | 1022EST               | 9.2                    | 30                    | 0              | 0       | 2                | 0     | Tornado (F1)       |   |
| Oakland and Macomb Counties:   | 19   | 1300-1345EST          |                        |                       | 0              | 0       | 4                | 0     | Thunderstorm       | Traverse City, Grand Traverse County.                                  | 21   | 1330EST               |                        |                       | 1              | 0       | 0                | 0     | Lightning          |   |
| Oakland County   |      |                       |                        |                       |                |         |                  |       |                    | Flint and Detroit Metropolitan Areas:                                  | 21   | 1515-1630EST          |                        |                       | 0              | 2       | 4                | 0     | Thunderstorm       |   |
| Macomb County  |      |                       |                        |                       |                |         |                  |       |                    | Genesee County   |      |                       |                        |                       |                |         |                  |       |                    |   |
| 1 mile West of Rochester, Oakland County.  | 19   | 1312EST               |                        |                       | 0              | 0       | 0                | 0     | Funnel Cloud       | Lapeer County  |      |                       |                        |                       |                |         |                  |       |                    |   |
| Spotted by police and from aircraft.   |      |                       |                        |                       |                |         |                  |       |                    | Oakland County   |      |                       |                        |                       |                |         |                  |       |                    |   |
| Southwest of Grand Haven and Sturgis:  | 19   | 2200-2400EST          |                        |                       | 0              | 0       | 4                | 0     | Thunderstorm       |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| Ottawa County  |      |                       |                        |                       |                |         |                  |       |                    | Macomb County  |      |                       |                        |                       |                |         |                  |       |                    |   |
| 2200-2215 Tree limbs and power lines down. House slightly damaged by lightning, fire near Grand Haven.   |      |                       |                        |                       |                |         |                  |       |                    | Wayne County   |      |                       |                        |                       |                |         |                  |       |                    |   |
| Kalamazoo County   |      |                       |                        |                       |                |         |                  |       |                    | Area bounded by Monroe, Jackson, Greenville, St. Johns, and Detroit:   | 21   | 1530-1730EST          |                        |                       | 0              | 2       | 5                | 0     | Thunderstorm       |   |
| Van Buren County   |      |                       |                        |                       |                |         |                  |       |                    | Montcalm County  |      |                       |                        |                       |                |         |                  |       |                    |   |
| Berrien County   |      |                       |                        |                       |                |         |                  |       |                    | Ionia County   |      |                       |                        |                       |                |         |                  |       |                    |   |
| 2315-2400 5000 homes without power. Three unconfirmed funnel clouds reported near Niles. Gusts to 57 mph at St. Joseph Coast Guard Station, to 62 mph near Eau Claire. |      |                       |                        |                       |                |         |                  |       |                    | Clinton County   |      |                       |                        |                       |                |         |                  |       |                    |   |
| Cass County  |      |                       |                        |                       |                |         |                  |       |                    | Eaton County   |      |                       |                        |                       |                |         |                  |       |                    |   |
| 2330-2400 Trees and power lines down.  |      |                       |                        |                       |                |         |                  |       |                    | Ingham County  |      |                       |                        |                       |                |         |                  |       |                    |   |
| St. Joseph County  |      |                       |                        |                       |                |         |                  |       |                    | Calhoun County   |      |                       |                        |                       |                |         |                  |       |                    |   |
| 2330-2400 Minor power outage.  |      |                       |                        |                       |                |         |                  |       |                    | Jackson County   |      |                       |                        |                       |                |         |                  |       |                    |   |
| Ironwood, Gogebic County   | 21   | 0700EST               |                        |                       | 0              | 0       | 0                | 0     | Thunderstorm       | Livingston County  |      |                       |                        |                       |                |         |                  |       |                    |   |
| Gust to 36 mph.  |      |                       |                        |                       |                |         |                  |       |                    | Washtenaw County   |      |                       |                        |                       |                |         |                  |       |                    |   |
| A 75-mile wide band from Grand Traverse Bay to Lake St. Clair:   | 21   | 0915-1400EST          |                        |                       | 0              | 3       | 5                | 0     | Thunderstorm       | Wayne County   |      |                       |                        |                       |                |         |                  |       |                    |   |
| Leelanau County  |      |                       |                        |                       |                |         |                  |       |                    | Monroe County  |      |                       |                        |                       |                |         |                  |       |                    |   |
| 0915-0945 Lightning fire destroyed building near Maple City.   |      |                       |                        |                       |                |         |                  |       |                    | 4 miles ESE of Ann Arbor, Washtenaw County.                            | 21   | 1623EST               | 0.1                    | 10                    | 0              | 0       | 0                | 0     | Tornado (F0)       |   |
| Benzie County  |      |                       |                        |                       |                |         |                  |       |                    | Dust cloud momentarily rose to merge with funnel aloft.                |      |                       |                        |                       |                |         |                  |       |                    |   |
| 0930-1000 See tornado listed below. Many other trees down.   |      |                       |                        |                       |                |         |                  |       |                    | Southwest Lower Peninsula:   | 21   | 1900-2230EST          |                        |                       | 0              | 0       | 0                | 1     | 6                  | 0 |
| Grand Traverse County  |      |                       |                        |                       |                |         |                  |       |                    | Ocean County   |      |                       |                        |                       |                |         |                  |       |                    |   |
| 0940-1030 Two persons injured by lightning in Traverse City. Trees down. Several small lightning fires.  |      |                       |                        |                       |                |         |                  |       |                    | Muskegon County  |      |                       |                        |                       |                |         |                  |       |                    |   |
| Wexford County   |      |                       |                        |                       |                |         |                  |       |                    | Ottawa County  |      |                       |                        |                       |                |         |                  |       |                    |   |
| 1000-1145 Unconfirmed funnel cloud near Manton.  |      |                       |                        |                       |                |         |                  |       |                    | Kent County  |      |                       |                        |                       |                |         |                  |       |                    |   |
| Kalkaska County  |      |                       |                        |                       |                |         |                  |       |                    | Allegan County   |      |                       |                        |                       |                |         |                  |       |                    |   |
| 1000-1030 Unconfirmed funnel cloud near South Boardman.  |      |                       |                        |                       |                |         |                  |       |                    | Barry County   |      |                       |                        |                       |                |         |                  |       |                    |   |
| Missaukee County   |      |                       |                        |                       |                |         |                  |       |                    | Van Buren County   |      |                       |                        |                       |                |         |                  |       |                    |   |
| 1015-1045 Power lines and trees down in scattered areas. See tornado listed below.   |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| Osceola County   |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| 1015-1100 Trees and power lines down. Unconfirmed funnel cloud report near Evert. 7/8 inch hail.   |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| Roscommon County   |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| 1020-1100 Falling tree damaged house.  |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| Clare County   |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| 1030-1130 Power lines down. Large hail at Leota and Harrison.  |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| Gladwin County   |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| 1045-1130 Power lines down. Several vehicles damaged by hailstones up to 2 1/2 inches at Beaverton.  |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| Midland County   |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| 1130-1215 3000 homes without power.  |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| Bay County   |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| 1130-1230 4500 homes without power.  |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| Saginaw County   |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| 1130-1230 6000 without power. Many trees down, some damage to buildings.   |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| Tuscola County   |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| 1140-1220 750 without power.   |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| Genesee County   |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| 1145-1215 2" hail reported near Flushing, 3/4 inch hail at Flint. Trees down in Frankemuth.  |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| Lapeer County  |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| 1200-1300 1150 without power. House trailer destroyed. Tow cars damaged.   |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| Oakland County   |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| 1245-1345 12,000 without power. Local street flooding. Many funnel cloud reports. Lightning started several fires.   |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| St. Clair County   |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| 1250-1345 400 without power.   |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| Macomb County  |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| 1300-1345 12,000 without power. Trees down blocking streets. Four sailboats capsized on Lake St. Clair.  |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| Wayne County   |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| 1300-1400 40,000 without power.  |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| 1 mile N of Bendon, Benzie County.   | 21   | 0930EST               | 0.1                    | 20                    | 0              | 0       | 2                | 0     | Tornado (F1)       |  |      |                       |                        |                       |                |         |                  |       |                    |   |
| Funnel sighted. A dozen large trees uprooted. Small building unroofed.   |      |                       |                        |                       |                |         |                  |       |                    |  |      |                       |                        |                       |                |         |                  |       |                    |   |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE   | DATE  | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |        |          |       | ESTIMATED DAMAGE |        |          |       | CHARACTER OF STORM |  |
|---|-------|-----------------------|------------------------|-----------------------|----------------|--------|----------|-------|------------------|--------|----------|-------|--------------------|--|
|   |       |                       |                        |                       | KILLED         | INURED | PROPERTY | CROPS | KILLED           | INURED | PROPERTY | CROPS |                    |  |
| <b>MICHIGAN</b>                                   |       |                       |                        |                       |                |        |          |       |                  |        |          |       |                    |  |
| Ionia County                                      |       | 2015-2045             |                        |                       |                |        |          |       |                  |        |          |       |                    | Boy injured by lightning in Saranac. Power outage.   |
| Kalamazoo County                                  |       | 2020-2050             |                        |                       |                |        |          |       |                  |        |          |       |                    | 6000 homes lost power. Several cars and buildings damaged by falling trees.  |
| Berrien County                                    |       | 2030-2100             |                        |                       |                |        |          |       |                  |        |          |       |                    | 8500 homes lost power. Gust to 58 mph at Benton Harbor airport. Several unconfirmed funnel cloud reports.  |
| Cass County                                       |       | 2040-2130             |                        |                       |                |        |          |       |                  |        |          |       |                    | 6500 homes lost power. Several cars and buildings damaged. 3 persons injured when cars crashed into fallen trees.  |
| St. Joseph County                                 |       | 2100-2130             |                        |                       |                |        |          |       |                  |        |          |       |                    | 4,000 homes lost power.  |
| Saugatuck to 1 mile E of Pullman, Allegan County. | 21    | 2005EST               | 13.6                   | 200                   | 1              | 1      | 5        | 0     |                  |        |          |       |                    | Tornado (F2) Funnel observed to touch down at north edge of Saugatuck where it destroyed a boat storage building. Moved south southeast through east part of town uprooting many large trees and damaging several buildings and vehicles. Crossed Kalamazoo River just above Blue Star Highway Bridge, continued intermittent path across open country to Lower Scott Lake. Marina 1/2 mile west of track measured 90 mph wind. Wall of water moved up Kalamazoo Lake swamping boat moored to bridge and drowning one man. Bicyclist on bridge dashed against railing and injured. |
|   |       |                       |                        |                       |                |        |          |       |                  |        |          |       |                    | Generally only minor damage on latter portions of track except for locally heavy destruction at south ends of both Hutchins Lake and Lower Scott Lake.   |
| South Central Lower Peninsula:                    | 21    | 1920-2100EST          |                        |                       |                |        |          | 0     | 0                | 5      | 0        |       |                    | Thunderstorm   |
| Eaton County                                      |       | 1920-1945             |                        |                       |                |        |          |       |                  |        |          |       |                    | 3/4" hail at Dimondale. Several tents and contents destroyed by wind and rain at religious convocation near Grand Ledge.   |
| Ingham County                                     |       | 1930-2000             |                        |                       |                |        |          |       |                  |        |          |       |                    | Trees and wires down.  |
| Calhoun County                                    |       | 1945-2015             |                        |                       |                |        |          |       |                  |        |          |       |                    | Several unconfirmed funnel clouds. Some lightning damage.  |
| Jackson County                                    |       | 1950-2100             |                        |                       |                |        |          |       |                  |        |          |       |                    | Several buildings damaged by lightning.  |
| Hillsdale County                                  |       | 2000-2100             |                        |                       |                |        |          |       |                  |        |          |       |                    | Trees down blocking roads. 2500 homes lost power.  |
| West Central Lower Peninsula:                     | 28    | 0400-0530EST          |                        |                       |                |        |          | 0     | 0                | 5      | 0        |       |                    | Thunderstorm   |
| Oceana County                                     |       | 0400-0430             |                        |                       |                |        |          |       |                  |        |          |       |                    | Several trees blown down, one split by lightning. Six fires set by lightning. Damage \$30,000. Camper trailer destroyed, sailboat and awnings damaged by wind at Pent-water. Record rainfall (4.6" in 4 hours) at Hart flooded streets and damaged buildings.  |
| Newaygo County                                    |       | 0410-0445             |                        |                       |                |        |          |       |                  |        |          |       |                    | House set afire by lightning near Hesperia. Several roads blocked by fallen trees.   |
| Muskegon County                                   |       | 0415-0500             |                        |                       |                |        |          |       |                  |        |          |       |                    | Trees and power lines down. Minor lightning damage.  |
| Ottawa, Kent, and Ionia Counties:                 | 28-29 | 2240-0030EST          |                        |                       |                |        |          | 0     | 0                | 5      | 0        |       |                    | Thunderstorm   |
| Ottawa County                                     |       | 2240-2340             |                        |                       |                |        |          |       |                  |        |          |       |                    | Northern part. Car damaged and roads blocked by falling trees. 13/4" hailstones, power outage. 3 buildings set afire, 5 cattle killed by lightning near Zeeland.   |
| Kent County                                       |       | 2300-0000             |                        |                       |                |        |          |       |                  |        |          |       |                    | Gusts to 72 mph. Several buildings and vehicles damaged by falling trees. Roof blown off industrial building. 2 minor house fires caused by lightning. 2 persons injured when ambulance slid off rain-slicked road. 25,000 homes lost power.   |
| Ionia County                                      |       | 2330-0030             |                        |                       |                |        |          |       |                  |        |          |       |                    | Tents destroyed and buildings partially unroofed. 1000 homes lost power..  |
| East Central Lower Peninsula:                     | 29    | 0115-0300EST          |                        |                       |                |        |          | 0     | 0                | 5      | 0        |       |                    | Thunderstorm   |
| Clinton County                                    |       | 0115-0200             |                        |                       |                |        |          |       |                  |        |          |       |                    | Barn destroyed by lightning fire. House and barn unroofed.   |
| Gratiot County                                    |       | 0115-0200             |                        |                       |                |        |          |       |                  |        |          |       |                    | Camper blown over. Power outage.   |
| Midland County                                    |       | 0115-0200             |                        |                       |                |        |          |       |                  |        |          |       |                    | Small building set afire by lightning.   |
| Saginaw County                                    |       | 0130-0230             |                        |                       |                |        |          |       |                  |        |          |       |                    | 2000 homes lost power.   |
| Tuscola County                                    |       | 0140-0230             |                        |                       |                |        |          |       |                  |        |          |       |                    | Barn blown down near Marlette. Several small lightning fires. Unconfirmed tornado report near Millington.  |
| Lapeer County                                     |       | 0145-0245             |                        |                       |                |        |          |       |                  |        |          |       |                    | Barn blown down near Clifford. 3,000 homes lost power.   |
| Sanilac County                                    |       | 0215-0300             |                        |                       |                |        |          |       |                  |        |          |       |                    | Car smashed by falling tree at Marlette. Building damaged by wind near Lexington. 2,000 homes lost power.  |
| <b>MICHIGAN</b>                                   |       |                       |                        |                       |                |        |          |       |                  |        |          |       |                    |  |
| Oceana and Newaygo Counties:                      | 29    | 0300-0600EST          |                        |                       |                |        |          |       |                  |        |          |       |                    | Thunderstorm   |
| Oceana County                                     |       | 0300-0430             |                        |                       |                |        |          |       |                  |        |          |       |                    | Many large trees down in 1/2 mile wide swath from Crystal Lake east southeastward. Mobile homes rolled over. Power outages. Large hail reported.   |
| Newaygo County                                    |       | 0400-0530             |                        |                       |                |        |          |       |                  |        |          |       |                    | Trees down in Diamond Lake area.   |
| Southeast Lower Peninsula:                        | 29    | 0445-0700EST          |                        |                       |                |        |          |       |                  |        |          |       |                    | Thunderstorm   |
| Livingston County                                 |       | 0445-0530             |                        |                       |                |        |          |       |                  |        |          |       |                    | 1900 homes lost power. Building and car damaged by falling trees.  |
| Washtenaw County                                  |       | 0500-0545             |                        |                       |                |        |          |       |                  |        |          |       |                    | 1400 homes lost power.   |
| Oakland County                                    |       | 0450-0630             |                        |                       |                |        |          |       |                  |        |          |       |                    | 12,000 homes lost power. Several buildings damaged by falling trees. Local street flooding. House damaged by lightning.  |
| Wayne County                                      |       | 0530-0700             |                        |                       |                |        |          |       |                  |        |          |       |                    | Streets flooded. Church steeple destroyed by lightning. Man electrocuted by fallen power line. 30,000 homes lost power.  |
| Macomb County                                     |       | 0545-0700             |                        |                       |                |        |          |       |                  |        |          |       |                    | Streets flooded. Storm sewers overflowed. Power lines down. 20,000 homes lost power.   |
| St. Clair County                                  |       | 0600-0700             |                        |                       |                |        |          |       |                  |        |          |       |                    | Trees and power lines down. Mobile home damaged. Minor lightning damage in Marine City.  |
|   |       |                       |                        |                       |                |        |          |       |                  |        |          |       |                    | A tornado was reported just east of Windsor, Ontario.  |
| Iosco County                                      | 29    | 1550EST               |                        |                       |                |        |          |       |                  |        |          |       |                    | Thunderstorm   |
|   |       |                       |                        |                       |                |        |          |       |                  |        |          |       |                    | Trees blown down northeast part of county.   |
| Extreme Southern Lower Peninsula:                 | 29    | 1700-2300EST          |                        |                       |                |        |          |       |                  |        |          |       |                    | Thunderstorm   |
| Ingham County                                     |       | 1700-1730             |                        |                       |                |        |          |       |                  |        |          |       |                    | Lightning split large tree.  |
| Calhoun County                                    |       | 1710-1845             |                        |                       |                |        |          |       |                  |        |          |       |                    | 2,000 homes lost power. Streets flooded.   |
| Kalamazoo County                                  |       | 1730-1900             |                        |                       |                |        |          |       |                  |        |          |       |                    | 2,000 homes lost power.  |
| Jackson County                                    |       | 1745-2030             |                        |                       |                |        |          |       |                  |        |          |       |                    | Many trees down. Local power outage.   |
| Washtenaw County                                  |       | 1800-2215             |                        |                       |                |        |          |       |                  |        |          |       |                    | Trees down. Building damaged by wind. 1500 homes lost power. Streets flooded.  |
| Berrien County                                    |       | 1810-1915             |                        |                       |                |        |          |       |                  |        |          |       |                    | Gusts to 56 mph. 3/4" hailstones.  |
| Cass County                                       |       | 1815-1930             |                        |                       |                |        |          |       |                  |        |          |       |                    | Lightning fires destroyed 3 barns.   |
| St. Joseph County                                 |       | 1840-2000             |                        |                       |                |        |          |       |                  |        |          |       |                    | Major power outage. Driver in Sturgis blinded by lightning, lost control of car and was injured in crash. Roads blocked by fallen trees.   |
| Branch County                                     |       | 1850-2030             |                        |                       |                |        |          |       |                  |        |          |       |                    | Trees down. Scattered power outages.   |
| Hillsdale County                                  |       | 1915-2100             |                        |                       |                |        |          |       |                  |        |          |       |                    | Trees down north and central portions.   |
| Wayne County                                      |       | 1930-2300             |                        |                       |                |        |          |       |                  |        |          |       |                    | Freeway closed by flooding.  |
| Lenawee County                                    |       | 1945-2200             |                        |                       |                |        |          |       |                  |        |          |       |                    | Lightning damaged house.   |
| Monroe County                                     |       | 2000-2300             |                        |                       |                |        |          |       |                  |        |          |       |                    | Minor power outage.  |
| Thumb Area:                                       | 29    |                       |                        |                       |                |        |          |       |                  |        |          |       |                    | Thunderstorm   |
| Genesee County                                    |       | 1740-1830             |                        |                       |                |        |          |       |                  |        |          |       |                    | Man injured by lightning.  |
| Tuscola County                                    |       | 1820-2000             |                        |                       |                |        |          |       |                  |        |          |       |                    | See tornado listed below. Trees down, blocking roads, disrupting power and damaging buildings at several other locations.  |
| Huron County                                      |       | 1845-2000             |                        |                       |                |        |          |       |                  |        |          |       |                    | House damaged by falling tree in Port Austin.  |
| 2 miles SE of Millington                          | 29    | 1930EST               | 0.2                    | 15                    | 0              | 0      | 4        | 0     |                  |        |          |       |                    | Tornado (F1) Destroyed two barns. Knocked down trees and power lines. Funnel aloft sighted about 5 miles to the northeast a few minutes later.   |
| Genesee County                                    | 29    | 2300-2400EST          |                        |                       |                |        |          |       |                  |        |          |       |                    | Thunderstorm   |
|   |       |                       |                        |                       |                |        |          |       |                  |        |          |       |                    | Trees and power lines down northeastern portion. Two barns flattened. Unconfirmed funnel cloud.  |
| 3 miles E of Dexter, Washtenaw County.            | 31    | 0800EST               |                        |                       |                |        |          |       |                  |        |          |       |                    | Lightning  |
|   |       |                       |                        |                       |                |        |          |       |                  |        |          |       |                    | House destroyed by fire.   |
| Northeast Michigan:                               | 31    | 1610-1845EST          |                        |                       |                |        |          |       |                  |        |          |       |                    | Thunderstorm   |
| Emmet County                                      |       | 1610-1630             |                        |                       |                |        |          |       |                  |        |          |       |                    | 1" hailstones at Petuskey.   |
| Chippewa County                                   |       | 1720-1740             |                        |                       |                |        |          |       |                  |        |          |       |                    | Local power outage.  |
| Antrim County                                     |       | 1730-1800             |                        |                       |                |        |          |       |                  |        |          |       |                    | Trees down blocking roads around Clam Lake and Torch Lake. Lightning started grass fire near Mancelona.  |
| Alpena County                                     |       | 1800-1900             |                        |                       |                |        |          |       |                  |        |          |       |                    | 1" hailstones 8 miles WNW of Alpena. Large trees down.   |
| West Central Lower Peninsula:                     | 31    | 1800-2030EST          |                        |                       |                |        |          |       |                  |        |          |       |                    | Thunderstorm   |
| Oceana County                                     |       | 1800-1830             |                        |                       |                |        |          |       |                  |        |          |       |                    | 3/4" hailstones in Aldridge Township.  |
| Newaygo County                                    |       | 1820-1900             |                        |                       |                |        |          |       |                  |        |          |       |                    | Motorcyclist injured by lightning. Several buildings damaged by falling trees. 60 mph gusts in White Cloud. 2,000 homes lost power.  |



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED <sup>1</sup> DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|-------------------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY                      | CROPS |                    |

## MICHIGAN

|                               |              |      |  |   |   |   |              |  |  |
|-------------------------------|--------------|------|--|---|---|---|--------------|--|--|
| Montcalm County               | 1850-2000    | 3/4" | hailstones. Many trees and powerlines down.  |   |   |   |              |  |  |
| Isabella County               | 1945-2030    | 3/4" | hailstones southwest portion. Local power outages.   |   |   |   |              |  |  |
| East Central Lower Peninsula: | 31 2130-2420 | EST  | 0  | 0 | 4 | 0 | Thunderstorm |  |  |
| Shiawassee County             | 2130-2215    |      | Unconfirmed funnel cloud.  |   |   |   |              |  |  |
| Saginaw County                | 2200-2300    |      | Major power outage.  |   |   |   |              |  |  |
| Huron County                  | 2230-2330    |      | House damaged and tree split by lightning.   |   |   |   |              |  |  |
| Lapeer County                 | 2245-2345    |      | Local power outages.   |   |   |   |              |  |  |
| Oakland County                | 2320-2400    |      | Unconfirmed funnel cloud over Hartland. Building damaged by wind in Birmingham. House set afire by lightning in Royal Oak. |   |   |   |              |  |  |
| St. Clair County              | 2330-2400    |      | Gusts to 65 mph. 4000 homes lost power.  |   |   |   |              |  |  |
| Macomb County                 | 2345-2420    |      | House damaged in Warren when lightning split tree. Small lightning fire in Sterling Heights.                               |   |   |   |              |  |  |

## 21 MINNESOTA

|                     |  |     |   |   |   |   |                        |              |  |
|---------------------|--|-----|---|---|---|---|------------------------|--------------|--|
| Southern Minnesota  | 1 0000-0445  | CST | 0 | 0 | 5 | 6 | Wind, hail, Heavy Rain |              |  |
|                     | Thunderstorms moved from west to east over extreme southern Minnesota during the early morning. Hail up to 1 1/2 inches in diameter damaged crops in many areas. Crop damage was severe in Stately township in southwest Brown County. Wind gusts ranged from 60-80 mph. Rochester reported a gust of 74 mph at 3:17 a.m. CST. Fairmont had 70 mph winds and Albert Lea had 68 mph. Numerous trees were toppled in the wind partially due to saturated soil conditions. In Welcome, two grain elevators and a grain storage building were damaged. A tractor trailer was rolled east of Jackson and a roof was blown off an apartment building in Austin. Several barns and many farm out-buildings were blown down. A few culverts were washed out in Pipestone County and several rivers in southern Minnesota exceeded their flood stage due to the heavy rain. |     |   |   |   |   |                        |              |  |
| Jackson County      | 1 0110   | CST | 0 | 0 | 0 | 0 | Funnel                 |              |  |
|                     | A funnel was observed in Huron Lake township.  |     |   |   |   |   |                        |              |  |
| Watwan County       | 1 0130   | CST | 0 | 0 | 0 | 0 | Funnel                 |              |  |
|                     | A funnel was observed to the southwest of Odin.  |     |   |   |   |   |                        |              |  |
| Sabin (Clay County) | 2 1956   | CST | ? | ? | 0 | 0 | 0                      | Tornado (F0) |  |
|                     | A tornado touched down briefly southeast of Sabin.   |     |   |   |   |   |                        |              |  |
| Becker County       | 2 2035   | CST | 0 | 0 | 0 | 0 | Hail                   |              |  |
|                     | Golfball size hail fell at Lake Melissa, 5 miles south of Detroit Lakes.   |     |   |   |   |   |                        |              |  |
| Hubbard County      | 2 2000-2300  | CST | 0 | 0 | 4 | 0 | Heavy Rain             |              |  |
|                     | Heavy rain fell washing out a portion of a county road.  |     |   |   |   |   |                        |              |  |
| Crow Wing County    | 2 Evening  |     | 0 | 0 | 0 | 0 | Wind                   |              |  |
|                     | A 500 yard wide path of trees were downed 7 miles east of Brainerd on County Road 23.  |     |   |   |   |   |                        |              |  |
| Nicollet County     | 3 1041   | CST | 0 | 0 | 0 | 0 | Funnel                 |              |  |
|                     | Funnel observed 6 miles south of Sleepy Eye moving northeast.  |     |   |   |   |   |                        |              |  |
| Nicollet County     | 3 1041-1120  | CST | 0 | 0 | 5 | 0 | Wind                   |              |  |
|                     | Damaging thunderstorm winds occurred from south central Nicollet County, south of Sleepy Eye through Sigel township to the southern section of New Ulm. Trees were knocked down and barns damaged at several farm sites. Five trailer homes were destroyed and four were damaged south of New Ulm.   |     |   |   |   |   |                        |              |  |
| Nicollet County     | 3 1120   | CST | 0 | 0 | 0 | 0 | Funnel                 |              |  |
|                     | Funnel observed just south of New Ulm.   |     |   |   |   |   |                        |              |  |

## MINNESOTA

|   |  |     |   |     |   |   |                 |   |              |
|---|--|-----|---|-----|---|---|-----------------|---|--------------|
| Carver, Scott and Hennepin Counties           | 3 1105-1150  | CST | 0 | 0   | 5 | 0 | Wind            |   |              |
|   | Strong thunderstorm winds caused widespread property damage through extreme western Scott County and through the eastern half of Carver and western half of Hennepin Counties. The largest amount of property damage in Carver County occurred around the communities of Chanhausen, Chaska and Victoria. A barn was destroyed in Laketown township in Carver County. Many communities in Hennepin County west of Highway 494 received wind damage. Numerous roofs were damaged, trees downed and power disrupted. Farm buildings were damaged in Hinnetrista. On Lake Minnetonka docks were destroyed and boats damaged.  |     |   |     |   |   |                 |   |              |
| Hennepin, Anoka, Chisago, Washington Counties | 3 1150-1241  | CST | 1 | 39  | 7 | 0 | Wind            |   |              |
|   | Downburst thunderstorm winds caused extensive damage along a path from northern Hennepin County through Anoka, Chisago and northern Washington Counties. The path of damage varied from 2 to 6 miles across and was nearly continuous to the Wisconsin border. Downburst winds increased as thunderstorms moved through Maple Grove into Dayton. Property damage was severe through the populated areas from Dayton, through Champlin, Anoka, Coon Rapids, Andover and Ham Lake. In Hennepin County in the communities of Maple Grove, Dayton and Champlin, seven homes were destroyed and four received moderate to severe damage. The greatest concentration of damage occurred in Champlin where a shopping center received \$3 1/2 million in damage. Extensive roof damage occurred at the shopping mall and numerous cars were tossed around the parking lot. In Coon Rapids, the roof of a lumberyard collapsed and winds hurled lumber through the air. In Anoka County a total of 50 homes were destroyed and 719 homes received moderate to severe damage. Injuries were minor and resulted mainly from broken and flying glass. From Ham Lake the downburst winds went through the Carlos Avery Wildlife Management Area into Chisago County and Washington County north of Forest Lake. Numerous trees were knocked down and occasional homes and farm sites damaged. High winds hit a carnival near Forest Lake injuring three workers, two with broken bones. At a campsite north of Lindstrom 10 camp trailers and 12 cars were damaged. Downburst winds caused the death of a child at a campsite 4 miles north of Taylors Falls when a falling tree crushed a camp trailer; 3 others were injured at the site. The path of downburst winds crossed the St. Croix River into Polk County, Wisconsin at 1241 CST. |     |   |     |   |   |                 |   |              |
| Andover (Anoka County)                        | 3 1205   | CST | 1 | 70  | 0 | 4 | 6               | 0 | Tornado (F4) |
|   | A tornado occurred just west of the town center of Andover and went through the Red Oaks subdivision. Numerous homes received major damage with some homes having only the foundation left. Although damage was extensive there were only four minor injuries resulting from falling debris and broken glass. The tornado moved east and it's width covered half a city block.   |     |   |     |   |   |                 |   |              |
| St. Paul (Ramsey County)                      | 3 1230   | CST | 0 | 1   | 0 | 0 | Lightning       |   |              |
|   | Lightning struck and injured a man after traveling from a power line through a fence then through the aluminum siding of a house to a door the man was holding.  |     |   |     |   |   |                 |   |              |
| Pine County                                   | 3 1205-1312  | CST | 0 | 0   | ? | 0 | Wind            |   |              |
|   | Thunderstorm winds moved from Pine City northeast through Ogema and Arna townships knocking down trees and a barn. Damage occurred near the entrance to the St. Croix State Park. Damaging winds moved into Wisconsin east of Cloverton at 1312 CST.   |     |   |     |   |   |                 |   |              |
| Swift (Roseau County)                         | 13 1630  | CST | 4 | 860 | 0 | 0 | 6               | 5 | Tornado (F2) |
|   | A tornado downed trees and 12 highline towers just south and east of Swift. An estimated 15,000 cords of wood were destroyed.  |     |   |     |   |   |                 |   |              |
| Central and Southeast                         | 19 Afternoon   |     | 0 | 8   | 7 | 5 | Wind, lightning |   |              |
|   | Thunderstorms entered the western Minnesota counties of Wilkin and Traverse at 1200 CST. The thunderstorms moved southeast about 50 miles an hour and passed through Alexandria at 1315 CST, St. Cloud at 1428 CST, and Minneapolis at 1521 CST. The area affected by the thunderstorms expanded to include a large portion of east central and southeast Minnesota before moving into western Wisconsin late in the afternoon. The thunderstorms moved into west central Minnesota with gusts to 58 mph and 1.04 inches of rain in 30 minutes. The first property damage occurred at Ashby. Heavy damage occurred through Garfield and Alexandria. The wind measuring equipment at the Alexandria airport pegged at 117 mph. Four planes were destroyed and a fifth was damaged. Many trees were knocked down and roofs were blown off several motels. Winds also caused severe damage in Stearns County through the communities of St. Martin, Richmond, Cold Spring and Rockville. Just south of Richmond, a mobile home was destroyed injuring one adult and three children. A home under construction adjacent to the mobile home was hit by lightning and burned. In Richmond, two garages housing buses were blown down. Near St. Martin six  |     |   |     |   |   |                 |   |              |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |

## MINNESOTA

|                                   |    |          |  |  |   |   |   |   |        |  |
|-----------------------------------|----|----------|--|--|---|---|---|---|--------|--|
|                                   |    |          |  |  |   |   |   |   |        | <p>barns were destroyed and 10 homes damaged. At a farm site in Farming township, five buildings were destroyed including a barn housing 5,000 chickens about half of which were killed. There were two injuries near Watkin in northern Meeke County. One man was injured when a silo box tipped over and another man was injured after seeking shelter in a utility trailer. Heavy property damage also occurred from Princeton to Long Lake east of Isanti. Four airport hangars in Princeton were destroyed, a third received major damage and numerous others had minor damage. Two injuries occurred in Isanti County due to flying debris and a falling tree. Trees and utility poles all through central and southeast Minnesota were either snapped off or uprooted. Power outages were numerous and widespread. Power was disrupted to a quarter of a million people many of which live in the metropolitan area of Minneapolis and St. Paul. Northern States Power Company reported repair expenses of \$2.5 million and this to be the most extensive power failure in their 74-year history. Reports of property damage due to falling trees were widespread. Building damage mainly to roofs was common along the path of thunderstorms as was loss of livestock due to falling debris. Winds also overturned a tractor-trailer tank truck at Sauk Center.</p> |
| Osakis (Douglas County)           | 19 | 1345 CST |  |  | 0 | 0 | 0 | 0 | Funnel | Funnel observed near Lake Osakis.  |
| Farming Township (Stearns County) | 19 | 1409 CST |  |  | 0 | 0 | 0 | 0 | Funnel | Funnel observed 5 miles south of Albany.   |
| Meeke County                      | 19 | 1430 CST |  |  | 0 | 0 | 0 | 0 | Funnel | Funnel observed 8 miles south of Litchfield at Lake Minne Belle.   |
| Goodland (Itasca County)          | 28 | 1700 CST |  |  | 0 | 0 | 3 | 4 | Wind   | Damaging thunderstorm winds broke off two power poles and some windows in Goodland. A cornfield was also flattened.  |
| Gunflint Trail (Cook County)      | 28 | 1800 CST |  |  | 0 | 0 | 4 | 0 | Wind   | Downburst thunderstorm winds cut a groove one mile long and 200 feet wide in the forest at Sea Gull River, 63 miles from Grand Marais on the Gunflint Trail. Six cabins and a year around home residence were damaged. A pickup truck was flattened and 12 virgin white pine trees were toppled.   |
| Gunflint Trail (Cook County)      | 28 | 1800 CST |  |  | 0 | 0 | 0 | 0 | Funnel | Funnel observed at Sea Gull River, 63 miles from Grand Marais on the Gunflint Trail.   |
| Breckenridge (Wilkin County)      | 30 | 1920 CST |  |  | 0 | 0 | 0 | 0 | Wind   | Detroit Lakes State Patrol reported 65-70 mph wind.  |
| Moorhead (Clay County)            | 30 | 1930 CST |  |  | 0 | 0 | 0 | 0 | Funnel | Moorhead radio station reported a funnel cloud 10 miles southeast of Moorhead.   |
| Twin Valley (Norman County)       | 30 | 1935 CST |  |  | 0 | 0 | 0 | 0 | Funnel | A funnel cloud was reported by a weather observer 5 miles south of Twin Valley.  |
| Fergus Falls (Otter Tail County)  | 30 | 2015 CST |  |  | 0 | 0 | 0 | 0 | Hail   | A ham radio operator at Fergus Falls reported golfball size hail.  |

## 22 MISSISSIPPI

|                  |   |         |  |  |   |   |   |   |           |   |
|------------------|---|---------|--|--|---|---|---|---|-----------|---|
| Chickasaw County | 2 | 1300CST |  |  | 1 | 0 | 0 | 0 | Lightning | An eighting year old girl was struck and killed by lightning while mowing grass at her home in Woodland.    |
| Monroe County    | 2 | 2110CST |  |  | 0 | 0 | 4 | 0 | Lightning | A five year old girl died from burns she received when her home was destroyed by fire started by lightning. |
| Walthall County  | 4 | ?       |  |  | 0 | 1 | 0 | 0 | Lightning | A man was struck and injured by lightning while repairing a water pump at his home near Tylertown.          |

## MISSISSIPPI

|                    |   |         |  |  |   |   |   |   |           |   |
|--------------------|---|---------|--|--|---|---|---|---|-----------|---|
| Pearl River County | 4 | 1600CST |  |  | 1 | 0 | 0 | 0 | Lightning | An elderly man was struck and killed by lightning while operating a tractor on his farm near Poplarville. |
|--------------------|---|---------|--|--|---|---|---|---|-----------|---|

## 23 MISSOURI

|                     |    |          |  |  |   |   |   |   |                          |  |
|---------------------|----|----------|--|--|---|---|---|---|--------------------------|--|
| Christian           | 25 | 1638 CST |  |  | 0 | 0 | 1 | 0 | Damaging Wind Large Hail | Hail to 3/4 inch diameter and winds downing tree limbs and uprooting a tree reported at Ozark.   |
| Callaway            | 25 | 1645 CST |  |  | 0 | 0 | 2 | 0 | Large Hail Damaging Wind | A trained storm spotter reported wind blew over a small camper and hail ranged from dime to nickel size just south of Fulton.  |
| Callaway            | 25 | 1655 CST |  |  | 0 | 0 | 4 | 0 | Damaging Wind            | Wind downed trees and power lines in Fulton.   |
| Montgomery Callaway | 25 | 1748 CST |  |  | 0 | 0 | ? | ? | Large Hail               | Hail to golf ball size reported on the Callaway-Montgomery County Line west of Montgomery City.  |
| Greene              | 30 | 1720 CST |  |  | 0 | 0 | 3 | 0 | Damaging Wind            | Wind gusts to 62 mph and heavy rain recorded at the National Weather Service Office in Springfield. The storm produced some urban flooding and caused some power outages due to lightning and possibly downed trees. |

## 24 MONTANA

|                                   |    |         |    |     |   |   |   |   |              |  |
|-----------------------------------|----|---------|----|-----|---|---|---|---|--------------|--|
| Granite County (Near Philipsburg) | 06 | 1315MST |    |     | 0 | 0 | 2 | 0 | Funnel       | Many large pine trees were toppled.  |
| Park County                       | 06 | 1745MST |    |     | 0 | 0 | 5 | 3 | Wind         | Winds estimated at 100 MPH caused extensive damage, mostly in Livingston, to buildings, power lines and trees.   |
| Pondera-Toole Counties            | 08 | 1700MST |    |     | 0 | 0 | 3 | 5 | Hail         | Hail storm, winds to 60 MPH and hail 1 1/2 inch in diameter destroyed crops, killed 50 chickens and broke many windows in a 5 mile wide band from East of Valier to the Sweetgrass hills.  |
| McCone County                     | 09 | 1837MST | 1  | 500 | 1 | 1 | 5 | 3 | Tornado (F1) | A tornado touched down 3 miles North of Vida, 19 miles South of Wolf Point and moved in a NNE direction. It destroyed two farm houses, a barn and damaged a trailer house. As the tornado crossed Highway 12 it picked up a Ford Bronco and slammed it into a field an eighth of a mile away. Both occupants were thrown from the car before hitting the ground. |
| Valley County                     | 10 | 0110MST | 1  | 100 | 0 | 0 | 3 | 3 | Tornado (F1) | A tornado touched down 6 miles South of Vandalia destroying grain bins and out-buildings. An unofficial 3 1/2 inches of rain accompanied the tornado. A funnel was observed at 0115MST in the same area.   |
| Southern Wibaux County            | 17 | 1700MST |    |     | 0 | 0 | 3 | 3 | Hail         | Hail the size of baseballs caused damage to crops, homes and automobiles. Most of the hail was not accompanied by strong winds.  |
| Garfield County                   | 17 | 2130MST | .5 | 15  | 0 | 0 | 3 | 2 | Tornado (F0) | A small tornado touched down briefly 20 miles West of Jordan. Considerable damage to one home. It destroyed garden and a 500 gallon diesel tank.   |
| Glassgow                          | 19 | 0134MST |    |     | 0 | 0 | 5 | 0 | Wind         | Wind gusts to 87 MPH did considerable damage to buildings and downed numerous trees. East side school received damage to a quarter of the building.  |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |        | ESTIMATED* DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|--------|-------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INURED | PROPERTY          | CROPS |                    |

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |        | ESTIMATED* DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|--------|-------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INURED | PROPERTY          | CROPS |                    |

## MONTANA

|   |    |                |   |    |   |   |   |   |              |
|---|----|----------------|---|----|---|---|---|---|--------------|
| Forsyth   | 19 | 1900MST        |   |    | 0 | 9 | 4 | 2 | Wind         |
| Strong winds that accompanied a fast moving thunderstorm destroyed a dozen or more mobile homes. All of the injured were in their mobile home when it was rolled by the wind.   |    |                |   |    |   |   |   |   |              |
| Missoula  | 20 | 1317MST        | 2 | 10 | 0 | 0 | 1 | 0 | Tornado (F0) |
| A very small tornado passed SW to NE in Orchard Homes area doing little damage to trees and power lines.  |    |                |   |    |   |   |   |   |              |
| Blaine County   | 20 | 1700MST        |   |    | 0 | 0 | 0 | 2 | Funnel       |
| Two funnels west of Hogeland. Hail 1 1/4 inch in diameter and two inches of rain accompanied funnels.   |    |                |   |    |   |   |   |   |              |
| Canyon Ferry Reservoir  | 20 | Late Afternoon |   |    | 3 | 0 | 0 | 0 | Wind         |
| Thunderstorm with strong winds capsized a 14 foot sailboat killing all on board - two adults and one child.   |    |                |   |    |   |   |   |   |              |
| Dawson County   | 20 | 1700MST        |   |    | 0 | 0 | 3 | 5 | Hail, Wind   |
| Hail and wind did much damage to crops in the Lindsay-Glendive area. Hail 1/2 inch in diameter, wind estimated at 60 MPH.   |    |                |   |    |   |   |   |   |              |
| Billings  | 27 | 1755MST        |   |    | 0 | 0 | 5 | 3 | Hail, Wind   |
| Hail to one inch in diameter and strong winds did damage to crops, roofs, power lines and portable horse stalls at the Yellowstone County Fairgrounds.  |    |                |   |    |   |   |   |   |              |
| North Ravalli County  | 31 | 1620MST        |   |    | 0 | 0 | 5 | 3 | Wind, Hail   |
| A violent thunderstorm did widespread damage from Hamilton to Florence. Isolated hail to one inch and winds over 75 MPH, and some heavy rain destroyed crops, felled trees and power lines and caused some minor flooding as an irrigation ditch burst. |    |                |   |    |   |   |   |   |              |

## 25 NEBRASKA

|   |    |                  |     |     |   |    |   |   |                     |
|---|----|------------------|-----|-----|---|----|---|---|---------------------|
| Dakota County   | 01 | 0035CST          |     |     | 0 | 0  | ? | 0 | High Winds          |
| Thunderstorm winds gusted 50 to 60 m.p.h. around Dakota City. No damage reported.   |    |                  |     |     |   |    |   |   |                     |
| Burt County   | 01 | 0200CST          |     |     | 0 | 0  | 2 | 0 | Hail                |
| Few hailstones to 1 1/2 inches were reported at Lyons.  |    |                  |     |     |   |    |   |   |                     |
| Cherry County   | 15 | 1900CST          |     |     | 0 | 0  | ? | ? | High Winds and Hail |
| High winds and hail struck the area around Valentine. No damage reported.   |    |                  |     |     |   |    |   |   |                     |
| Keith County  | 15 | 1926CST          | 1/4 | 100 | 0 | 0  | 5 | 0 | Tornado (F2)        |
| A tornado moving in a northeast direction struck briefly at a fishing resort at Cedar View Point, about 12 miles east of Lewellen on the north shore of Lake McConaughy. Two mobile homes were totally destroyed, and six others suffered light to moderate damage. Power poles were shattered and flying debris damaged boat houses and cabins. Debris was scattered 1000 feet on to railroad tracks. FPP202                                   |    |                  |     |     |   |    |   |   |                     |
| Keith County  | 15 | 1926CST          |     |     | 0 | 12 | 3 | 0 | Hail                |
| One and a half inch hail fell with above storm and 12 people were bruised by the hailstones as they ran from cabins and mobile homes to substantial shelter.  |    |                  |     |     |   |    |   |   |                     |
| Keith County  | 15 | 2215CST          |     |     | 0 | 0  | 4 | 3 | Damaging Winds      |
| Thunderstorm winds estimated to around 70 m.p.h. blew down some power lines south of Ogallala and uprooted some trees in town. At Paxton, the winds blew down railroad crossing arms and broke tree limbs. Heavy rain with the storm flooded streets at Paxton.   |    |                  |     |     |   |    |   |   |                     |
| Cherry and Brown Counties   | 16 | 0100CST -0230CST |     |     | 0 | 0  | ? | ? | Heavy Rain          |
| Four and a half to six inches of rain fell in the Wood Lake and Johnston area causing local flash flooding. No damage was reported.   |    |                  |     |     |   |    |   |   |                     |
| Cherry County   | 17 | 0300CST          |     |     | 0 | 0  | 5 | 5 | Damaging Winds      |
| Thunderstorm winds estimated to 70 m.p.h. knocked down trees and power lines and damaged the wheat crop across the north portion of the county. North of Crookston, the roof was torn off a trailer house. Around Lakeview, wind chargers and wind mills were blown over and irrigation systems damaged. Power was out in Valentine until noon the next day, and to the southwest of town, sheds were destroyed and a tree was blown on a home. |    |                  |     |     |   |    |   |   |                     |

## NEBRASKA

|   |    |                  |  |  |   |   |   |   |                |
|---|----|------------------|--|--|---|---|---|---|----------------|
| Cherry County   | 17 | 0300CST -0400CST |  |  | 0 | 0 | 6 | 5 | Flash Flood    |
| Three to six inches of rain on saturated ground resulted in flash flooding. Fishery at the Valentine State Hatchery, 2 miles north of Valentine, suffered washouts to fish ponds, as a wall of water estimated 8 to 10 feet swept down a canyon over an earthen dam taking 100 feet of road with it. Minnechadza Creek left banks washing out railroad tracks near Crookston. The creek also washed out golf course bridges and cut a new channel destroying crops. Drifts of sand left by the flooding blocked Merritt Dam Road south of Valentine and portions of Highway 20 were undercut. Many basements were flooded in Valentine. Numerous county roads were washed out and bridges damaged.  |    |                  |  |  |   |   |   |   |                |
| Keya Paha County  | 17 | 0315CST -0430CST |  |  | 0 | 0 | 6 | 6 | Flash Flood    |
| Four to eight inches of rain on already wet ground flooded the Sunnybrook campground on the Niobrara River southwest of Norden. Miraculously, no people drowned or were killed as 60 to 80 sleeping campers were forced to flee to higher ground or cling to trees and each other as a torrent of 5 to 8 feet of debris filled water swept the campground. Twelve vehicles were inundated by water and a number swept downstream. Approximately 70 canoes and other camping equipment were washed downstream. After the water receded, vehicles were left buried in several feet of sand and silt. Downstream at Rocky Ford, four other canoes were washed away. Numerous other county roads and bridges were washed out, making it difficult for aid to reach the campers. Considerable soil erosion and crop damage occurred in the county. |    |                  |  |  |   |   |   |   |                |
| Keya Paha County  | 17 | 0315CST          |  |  | 0 | 0 | 3 | 0 | Damaging Winds |
| High thunderstorm winds blew down and damaged tents at Rocky Ford campground.   |    |                  |  |  |   |   |   |   |                |
| Dawes County  | 17 | 1900CST          |  |  | 0 | 0 | 0 | 0 | Funnel Clouds  |
| Funnel clouds were reported from 5 to 10 miles southeast of Crawford.   |    |                  |  |  |   |   |   |   |                |
| Deuel County  | 17 | 1905CST          |  |  | 0 | 0 | 3 | 0 | Damaging Winds |
| Thunderstorm winds estimated to 80 m.p.h. downed trees and caused scattered property damage near Chappell.  |    |                  |  |  |   |   |   |   |                |
| Perkins County  | 17 | 1910CST          |  |  | 0 | 0 | 3 | 4 | Damaging Winds |
| At Grant and Madrid, strong thunderstorm winds gusting to over 60 m.p.h. shattered several windows and tore off tree limbs. Crops were flattened by the winds.  |    |                  |  |  |   |   |   |   |                |
| Keith County  | 17 | 1917CST          |  |  | 0 | 0 | 5 | 4 | Damaging Winds |
| Thunderstorm winds estimated to 70 m.p.h. blew away an out-building just southwest of Ogallala and trees and signs were blown down along with windows being shattered in town. Six miles north-northeast of Ogallala at Kingsley Dam, wind equipment recorded a gust to 94 m.p.h. At Lake Ogallala, 8 miles northeast of Ogallala, six camping trailers were destroyed. Also in the county, power lines were downed at Brule.   |    |                  |  |  |   |   |   |   |                |
| McPherson County  | 17 | 1930CST          |  |  | 0 | 0 | 5 | 4 | Damaging Winds |
| Wind gusts in thunderstorms estimated 70 to 80 m.p.h. struck Tryon causing considerable property damage when trees downed by winds fell into homes. Power lines downed, trees uprooted and crops flattened across the county.   |    |                  |  |  |   |   |   |   |                |
| Lincoln County  | 17 | 1930CST          |  |  | 0 | 0 | 4 | 4 | Damaging Winds |
| Strong thunderstorm winds downed trees and power lines in Sutherland, Hershey and North Platte. Crops through the valley flattened by the winds.  |    |                  |  |  |   |   |   |   |                |
| Hooker County   | 17 | 2053CST          |  |  | 0 | 0 | 6 | 4 | Damaging Winds |
| Extreme thunderstorm winds struck Mullen with official wind equipment measuring a gust to 109 m.p.h. Numerous trees were uprooted, windows blown out, power lines downed and a hangar and airplane inside demolished. Crops flattened and other utility line and tree damage over the county.   |    |                  |  |  |   |   |   |   |                |
| Cherry County   | 17 | 2130CST          |  |  | 0 | 1 | 5 | 3 | Damaging Winds |
| Six miles south of Merritt Dam, thunderstorm winds blew windows out of bunkhouse, injuring one person. Trees three feet in diameter were uprooted and wind mills blown over. A ranch building was crushed by fallen tree.   |    |                  |  |  |   |   |   |   |                |
| Hooker County   | 22 | 1530CST          |  |  | 0 | 0 | 4 | 4 | Damaging Winds |
| Seventy m.p.h. thunderstorm winds knocked down power lines and trees and shattered a few windows. Some crops flattened.   |    |                  |  |  |   |   |   |   |                |
| Cedar County  | 22 | 1845CST          |  |  | 0 | 0 | 3 | 0 | Damaging Winds |
| Sixty to 70 m.p.h. thunderstorm winds damaged trees and utility lines around Wynot and St. Helena.  |    |                  |  |  |   |   |   |   |                |
| Dixon County  | 22 | 1900CST          |  |  | 0 | 0 | 3 | 0 | Damaging Winds |
| Fifty to 70 m.p.h. thunderstorm winds through the north portion of the county around Newcastle and Ponca damaged trees, utility lines and a few buildings.  |    |                  |  |  |   |   |   |   |                |
| Kimball County  | 22 | 1915CST          |  |  | 0 | 0 | ? | ? | Hail           |
| Small hail accumulated to a depth of 4 inches near Bushnell.  |    |                  |  |  |   |   |   |   |                |
| Arthur County   | 26 | 1830CST          |  |  | 0 | 0 | 0 | 4 | Hail           |
| Half inch hail driven by 50 m.p.h. winds damaged crops around Arthur.   |    |                  |  |  |   |   |   |   |                |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         |          |       | ESTIMATED* DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|----------|-------|-------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY | CROPS | PROPERTY          | CROPS |                    |
|       |      |                       |                        |                       |                |         |          |       |                   |       |                    |

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         |          |       | ESTIMATED* DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|----------|-------|-------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY | CROPS | PROPERTY          | CROPS |                    |
|       |      |                       |                        |                       |                |         |          |       |                   |       |                    |

## NEBRASKA

|   |    |         |   |   |   |   |   |                         |  |  |  |
|---|----|---------|---|---|---|---|---|-------------------------|--|--|--|
| Hooker County   | 26 | 1900CST | 0 | 0 | 0 | 0 | 3 | Damaging Winds          |  |  |  |
| Sixty m.p.h. thunderstorm gusts hit the area in and around Mullen. Small hail with the wind damaged crops.  |    |         |   |   |   |   |   |                         |  |  |  |
| Lincoln County  | 26 | 2200CST | 0 | 0 | 5 | 4 |   | Lightning               |  |  |  |
| Thunderstorms in the vicinity of Hershey and North Platte produced severe lightning, which set grass fires. A fire from lightning extensively damaged a home south of North Platte. Many power outages in North Platte where at least three transformers were hit. Equipment at the North Platte Weather Office was also damaged. |    |         |   |   |   |   |   |                         |  |  |  |
| Hall County   | 28 | 0115CST | 0 | 0 | 4 | 0 |   | Damaging Winds          |  |  |  |
| Seventy-five to eighty m.p.h. thunderstorm wind gusts struck the Alda area, breaking tree limbs, an unoccupied mobile home south of Alda was destroyed by the wind.   |    |         |   |   |   |   |   |                         |  |  |  |
| Douglas County  | 30 | 1515CST | 0 | 0 | 0 | 0 |   | Hail                    |  |  |  |
| A brief period of three-quarter inch hail fell in Omaha.  |    |         |   |   |   |   |   |                         |  |  |  |
| Sarpy County  | 30 | 1525CST | 0 | 0 | 5 | 0 |   | Damaging Winds and Hail |  |  |  |
| At LaVista and Papillion, 50 to 65 m.p.h. thunderstorm gusts were reported. At Papillion, a two story, 20 unit building under construction, was blown down and a flat bed trailer was overturned. Some one inch hail and tree damage was also reported.   |    |         |   |   |   |   |   |                         |  |  |  |

26 NEVADA ————— NONE REPORTED

## 27 NEW HAMPSHIRE

|  |    |         |   |   |   |   |  |               |  |  |  |
|--|----|---------|---|---|---|---|--|---------------|--|--|--|
| Belknap and Carroll Counties   | 05 | 1300EST | 0 | 0 | 4 | 0 |  | Thunderstorms |  |  |  |
| A slow moving cold front traversed the state, touching off statewide thunderstorms with Belknap and Carroll communities hardest hit. Winds caused tree limbs to fall on utility lines. The largest power outages were 3,400 customers in Conway East Conway and Chatham, and another 1,500 in Laconia and Lakeport. Power was out for 1 to 2 hours. Lightning is blamed for starting two fires, one was a brush fire in Alexandria and the other completely destroyed a 10 x 20 foot tool shed in Sandwich. New England Telephone Co. reported heavy rain caused an unusually large number of phones to go out of order after cables became waterlogged. |    |         |   |   |   |   |  |               |  |  |  |
| Merrimack, Rockingham and southern Stratford Counties  | 21 | 1300EST | 0 | 1 | 6 | 0 |  | Thunderstorms |  |  |  |
| A cold front swept through the state, setting off thunderstorms. In Merrimack, a teenage girl suffered a skull fracture when part of a lightning-struck pine tree landed on her. In Kingston, a motorist was trapped in his vehicle by a felled tree but was later freed uninjured. Many trees and large limbs, struck by lightning or snapped off or uprooted by high winds, did most of the damage in the state by blocking roads, felling utility lines and smashing into buildings and vehicles. About 14,000 customers were without power statewide for up to 6 hours. Most of the damage and power losses were in southern New Hampshire.          |    |         |   |   |   |   |  |               |  |  |  |
| Lake Winnepesaukee, Belknap and Carroll Counties   | 22 | Daytime | 0 | 0 | 4 | 0 |  | High Winds    |  |  |  |
| A cold frontal passage Thursday and a developing ocean storm on the front combined to produce a strong north to northwest wind. This created ocean-sized waves on Lake Winnepesaukee. The four to five foot waves totaled a State marine patrol boat and capsized several private vessels. Many boats were torn from their moorings. Concord recorded a peak gust of 41 mph.   |    |         |   |   |   |   |  |               |  |  |  |

## 28 NEW JERSEY

|  |    |         |     |    |   |   |   |                            |  |  |  |
|--|----|---------|-----|----|---|---|---|----------------------------|--|--|--|
| Longport, Burlington Co., Ocean City   | 19 | 1126EST | 0   | ?  | ? | ? |   | Thunderstorm Damaging Wind |  |  |  |
| In Longport several homes were damaged on Point Drive just across the inlet from Ocean City. A section of a rooftop of a house blew off and hit several neighboring homes causing severe damages. Lightning struck the steeple of a church in Burlington County setting the roof ablaze. There were no injuries. Wind gust over 50 MPH in Ocean City downed power lines and trees. Several cars on a ferris wheel at Gillian's Fun Deck on the Boardwalk were separated. The ferris wheel was shut down for repairs, no injuries were reported.  |    |         |     |    |   |   |   |                            |  |  |  |
| Manahawkin and Long Beach Island   | 21 | 2030EST | 1/8 | 10 | 0 | ? | 6 | Tornado (F2)               |  |  |  |
| An isolated vortex dropped from among storm clouds and touched down in Long Beach Township. The winds, accompanied by heavy rain and lightning, toppled trees into homes, knocked down telephone and power lines and ripped the roof off a supermarket in Stafford's Manahawkin section. Shattered storefront windows and debris flung across a narrow path through Manahawkin and Long Beach Island. The storm then traveled across Barnegat Bay to the North Beach section of Long Beach Island destroying one bayside home and damaging several other residences as it flipped moored boats and scattered furniture and other debris. FPP 200 |    |         |     |    |   |   |   |                            |  |  |  |

## 29 NEW MEXICO

|  |    |         |   |   |   |   |  |              |  |  |  |
|--|----|---------|---|---|---|---|--|--------------|--|--|--|
| Gallup, McKinley County  | 27 | 1700NST | 0 | 0 | 5 | 0 |  | Flash Flood  |  |  |  |
| Heavy rains over the north side of Gallup caused considerable damage to homes and streets in the area.   |    |         |   |   |   |   |  |              |  |  |  |
| Broadview, Curry County  | 29 | 1300NST | 0 | 0 | 4 | 0 |  | Tornado (F0) |  |  |  |
| The Clovis police confirmed that a tornado touched down at Broadview (30 miles north of Clovis), tearing up a 30-foot metal building with little damage to other property. |    |         |   |   |   |   |  |              |  |  |  |

## 30 NEW YORK, Coastal

|   |    |         |   |   |   |   |  |           |  |  |  |
|---|----|---------|---|---|---|---|--|-----------|--|--|--|
| Near Freeport, L.I., Jones Beach  | 19 | 1500EST | 4 | 4 | ? | - |  | Lightning |  |  |  |
| Eight people were victims from lightning at Jones Beach near Freeport Long Island. Those killed by lightning were as follows: (1) a man who had apparently fallen asleep while sun-bathing near an isolated part of the beach. (2) Sun-bather died in a Long Island hospital after being hit by freak lightning on Jones Beach. (3) An assistant professor of electrical engineering at the Pratt Institute in Brooklyn was killed by lightning when a bolt struck a portable radio he had slung over his shoulder and coursed through his body. (4) A 27 year-old Massachusetts man was killed and a Queens man critically injured when they were struck by lightning bolts on the beach during the thunder-storm. Neither one was identified. One Bronx girl was holding an umbrella when it was struck - but miraculously escaped unharmed. She felt that her wearing an heirloom crucifix saved her life. Two other females were struck but not seriously they were treated for shock. One was released from the hospital after treatment, but the other was admitted for overnight observation. The deaths were the first caused by lightning on Long Island in four or five years. Most of the victims within a 30 year period were golfers who had sought protection under trees during thunderstorms. According to the Lightning Protection Institute of Harvard Illinois bathers are particularly vulnerable because lightning tends to veer from negatively charged water to strike more positively charged beaches. A typical bolt discharges 25,000 amperes and up to 3 million volts in four-tenths of a second, compared with 10 to 20 amperes and 110 volts on household lines. Experts have given the automobile and large buildings the best means to escape being struck, that is to seek shelter inside of either. |    |         |   |   |   |   |  |           |  |  |  |

## 30 NEW YORK, Central

|   |    |         |   |   |   |   |  |                          |  |  |  |
|---|----|---------|---|---|---|---|--|--------------------------|--|--|--|
| Greene County   | 04 | PM      | 0 | 0 | ? | 0 |  | Thunderstorms            |  |  |  |
| Thunderstorms rolled through Greene County Monday afternoon. Local DPW and fire and police agencies were kept busy due to downed trees and power lines. Downed power lines ignited one car on fire. FD officials stated the cause was wind and lightning.   |    |         |   |   |   |   |  |                          |  |  |  |
| Washington County Warren County   | 04 | 1230EST | 3 | 2 | ? | C |  | Thunderstorms, Lightning |  |  |  |
| Powerful thunderstorms swept the Lake George region, with lightning doing the most damage. Two girl scouts were hit by lightning in their tent at Hidden Lake. Both died. A lone camper was leaning against a tree which was hit. The man died. Lightning also hit a tent at Lake George burning both victims. 1 died, 1 critical. Power lines etc. also took their toll. Lightning was also blamed for several fires.    |    |         |   |   |   |   |  |                          |  |  |  |
| Sylvan Beach Onieda County  | 04 | 2030EST | 0 | 8 | 4 | C |  | Thunderstorms, Lightning |  |  |  |
| High winds and lightning added to the fireworks at Sylvan Beach on the 4th. Winds blew down a tree which injured 8 persons. Trees also fell on several cars parked along the road and in the parking lot. Lightning also hit some power lines and transformers adding to the light show.  |    |         |   |   |   |   |  |                          |  |  |  |
| West Pt Orange County   | 09 | ?       | 0 | 2 | 3 | 0 |  | Lightning                |  |  |  |
| Two cadets were occupying an observation tower when it was hit by lightning. Both cadets were only shaken.  |    |         |   |   |   |   |  |                          |  |  |  |
| Moir, Franklin County   | 14 | 2315EST | 1 | 2 | 4 | 0 |  | Lightning                |  |  |  |
| A little girl was electrocuted on 8/15. She was opening a door to a trailer. Lightning had struck the meter next to the door and caused a short which electrified the mobile home frame. All 3 girls were evacuating the home at the time due to the fire. When April reached the door she was tossed back and her body acted as an extension of the ground. This resulted in her two sisters suffering electrical burns. |    |         |   |   |   |   |  |                          |  |  |  |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE   | DATE   | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM             |
|---|--|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------------------|
|   |  |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                                |
| <b>NEW YORK, Central</b>  |  |                       |                        |                       |                |         |                  |       |                                |
| Area Wide   | 21   | 1330EST               |                        |                       | 0              | 0       | ?                | C     | Thunderstorms, Hail, Lightning |
|   | <p>The clash of 2 Weather Systems created a line of thunderstorms which moved across eastern New York. These storms resulted in power lines and trees downed through out eastern New York. The public reported unconfirmed tornado near Conklin, Central BR, Scotia, all proved false. Hail ranged from pea size to golfball size at Callicoon New York. Winds in several areas were over 50 MPH. With a report of 69 MPH at Binghamton. Lightning also hit a transformer in the southern tier which was filled with PCB's. This created a hazardous material spill which was later cleaned up without further incident. The storms moved out of New York about 6PM.</p>       |                       |                        |                       |                |         |                  |       |                                |
| Queensbury, Warren County   | 21   | 1430EST               |                        |                       | 0              | 8       | 5                | 0     | Thunderstorm, Lightning        |
|   | <p>A severe electrical packing winds of over 50 MPH slammed into Queensbury and surrounding areas. Nearly one thousand homes were out of power. The roof of the Harvest Restaurant was blown off near injuring several persons inside. Four campers were injured when a tree limb fell on their tent the result of strong winds. Others suffered minor injuries.</p>   |                       |                        |                       |                |         |                  |       |                                |
| Claryville  | 21   | 1620EST               | .5mi                   | .25mi                 | 0              | 0       | ?                | 0     | Tornado(FI)                    |
|   | <p>Cooperative WX observer reported a two funnel tornado touched down briefly. OBS. reported hearing noise like a freight train. OBS had lived in mid west and is familiar with tornadoes. Damage was mostly to trees and few porches. OBS had clear view of entire storm.</p>   |                       |                        |                       |                |         |                  |       |                                |
| Greenwich, Washington County  | 24   | ?                     |                        |                       | 0              | 3       | 1                | 0     | Lightning                      |
|   | <p>Lightning struck 5 persons Sunday. The event took place at a local ball field. Some minor damage was done to the dugouts.</p>   |                       |                        |                       |                |         |                  |       |                                |
| Central BR, Schoharie County  | 28   | 1330EST               |                        |                       | 0              | 0       | 4                | 0     | Thunderstorm, Hail, Lightning  |
|   | <p>A brief but violent thunderstorm hit Schoharie Co. causing downed power lines and collapsing a pole barn and crushing a hay wagon. The storm lasted 15-20 minutes.</p>  |                       |                        |                       |                |         |                  |       |                                |
| <b>30 NEW YORK, Western</b>   |  |                       |                        |                       |                |         |                  |       |                                |
| Jamestown and parts of Northern Chautauqua County   | 20   | Morning               |                        |                       |                |         | 4                | C     | Wind, Hail                     |
|   | <p>A fast moving thunderstorm with damaging winds swept through the area. It knocked down tall trees and caused brief power outages.</p>   |                       |                        |                       |                |         |                  |       |                                |
| Rochester, Monroe County  | 21   | 1215EST               |                        |                       |                | 1       | 4                |       | Lightning                      |
|   | <p>A woman who was using the telephone during a thunderstorm got a strong shock as lightning struck the telephone wire and traced the line up to the receiver. Utility lines were ruptured and rendered more than 10,000 homes without power for a few hours.</p>  |                       |                        |                       |                |         |                  |       |                                |
| Wethersfield, Genesee County  | 21   | 1530EST               |                        |                       |                |         | 4                |       | Lightning                      |
|   | <p>Lightning ignited a YMCA building. A large portion of its roof was destroyed.</p>   |                       |                        |                       |                |         |                  |       |                                |
| Auburn and Weedsport, Cayuga County; Parts of Wayne, Yates, Ontario, & Seneca County; Towns of Groton & Dryden, Tompkins County | 21   | Afternoon             |                        |                       |                |         | 5                |       | Wind, Lightning                |
|   | <p>Thunderstorms with strong winds, accompanied with lightning, toppled many huge trees, broke power lines, and damaged a few homes. More than 5000 homes were without electricity for up to 5 hours. Large tree limbs blocked a few streets.</p>  |                       |                        |                       |                |         |                  |       |                                |
| Dunkirk, Fredonia, Chautauqua County  | 29   | Morning               |                        |                       |                |         | 5                | C     | Rain, Lightning                |
|   | <p>Thunderstorms dumped more than 4 inches in a few hours. Small streams rose above their banks. Streets and parks were inundated. Lightning struck power lines and caused power outages to more than 2000 homes for 3 hours.</p>  |                       |                        |                       |                |         |                  |       |                                |
| Amherst, Erie County  | 29   | Morning               |                        |                       |                |         | 4                |       | Lightning                      |
|   | <p>Lightning severed power lines. More than 2000 homes were without power for about 4 hours.</p>   |                       |                        |                       |                |         |                  |       |                                |
| Alma, Allegany County   | 30   | 1410EST               |                        |                       | 1              |         | 3                |       | Lightning                      |
|   | <p>Lightning electrocuted a woman who was sitting on a metal chair under a tree.</p>   |                       |                        |                       |                |         |                  |       |                                |
| Auburn, Cayuga County and Parts of Seneca County  | 31   | Morning               |                        |                       |                |         | 3                |       | Wind, Lightning                |
|   | <p>Strong winds and lightning toppled huge trees. A few homes were damaged. Electrical wires snapped and rendered hundreds without power for 3 hours or more.</p>  |                       |                        |                       |                |         |                  |       |                                |
| Harrisville, Lewis County   | 31   | Evening               |                        |                       |                |         | 3                |       | Wind                           |
|   | <p>Strong winds uprooted a tree, crushed a porch and broke a car's windshield.</p>   |                       |                        |                       |                |         |                  |       |                                |
| <b>31 NORTH CAROLINA</b>  |  |                       |                        |                       |                |         |                  |       |                                |
| Elkin, Surry County   | 3  | 1845EST               |                        |                       | 0              | 0       | ?                | ?     | Thunderstorm                   |
|   | <p>Thunderstorm winds accompanied by hail and heavy rain downed trees and powerlines leaving 1,500 homes without power. Several homes were damaged in the area by the winds which gusted to 63 mph.</p>  |                       |                        |                       |                |         |                  |       |                                |
| Laurinburg, Scotland County   | 4  | 1430EST               |                        |                       | 0              | 0       | 4                | ?     | Thunderstorm                   |
|   | <p>Strong winds from a thunderstorm tore the roof off of a mobile home being used as a classroom resulting in \$5,000 damage. Many trees and powerlines were toppled by the winds leaving 1,000 homes without electricity. Several automobiles were also damaged by flying debris.</p>   |                       |                        |                       |                |         |                  |       |                                |
| Kinston, Lenoir County  | 4  | 1700EST               |                        |                       | 0              | 0       | 4                | ?     | Thunderstorm                   |
|   | <p>Thunderstorm winds tore the roof off of a church in the community of Greenmead, near Kinston. Numerous trees and powerlines were also downed by the storm.</p>  |                       |                        |                       |                |         |                  |       |                                |
| Elizabethtown, Bladen County  | 5  | 1900EST               |                        |                       | 0              | 0       | 5                | 0     | Thunderstorm                   |
|   | <p>Straightline winds associated with a severe thunderstorms tore through the business section of this town causing extensive damage to several buildings. One business had its roof completely ripped off and thrown 200 feet away, while others suffered window and roof damage. A home nearby received \$20,000 in damages when a large tree fell upon it. Several automobiles were damaged after they were picked up by the winds and thrown around.</p>   |                       |                        |                       |                |         |                  |       |                                |
| Statewide   | 12-24  |                       |                        |                       | 6              | ?       | ?                | ?     | Heat Wave                      |
|   | <p>A large area of stagnant High Pressure located over the south central United States resulted in abnormally high temperatures across the State. Temperatures exceeded 90° in most locations for almost two weeks, with many areas reaching 100°, resulting in the establishment of many new record high temperatures. The heat combined with a prolonged dry spell to produce an agricultural drought which inflicted irreparable damage to many of the State's agricultural commodities. Monetary losses though great, were unattainable. Six deaths were attributed to the Heatwave; four directly from heatstroke and two indirectly from heat related complications.</p> |                       |                        |                       |                |         |                  |       |                                |
| Fayetteville, Cumberland County   | 18   | 1800EST               |                        |                       | 0              | 0       | 4                | ?     | Thunderstorm                   |
|   | <p>A severe thunderstorm moved through the area producing high winds which downed numerous trees and powerlines leaving hundreds of homes without power. The roof of the Public Works Filter Plant was demolished by the storm causing \$20,000 in damages. Torrential rain accompanied the storm, as much as 2 inches in less than an hour, resulting in minor street flooding.</p>   |                       |                        |                       |                |         |                  |       |                                |
| Yadkinville, Yadkin County  | 19   | 1330EST               |                        |                       | 0              | 0       | 4                | ?     | Thunderstorm                   |
|   | <p>Strong winds associated with a severe thunderstorm exceeded 60 mph in Swan Creek, near Yadkinville. Numerous trees and powerlines were toppled by the storm which also damaged a mobile home.</p>   |                       |                        |                       |                |         |                  |       |                                |
| Cedar Island, Carteret County   | 22   | 0230EST               |                        |                       | 0              | 0       | ?                | ?     | Thunderstorm                   |
|   | <p>Winds gusted to 70 mph at the Ferry Terminal on the island during a severe thunderstorm. Damage estimates were unattainable.</p>  |                       |                        |                       |                |         |                  |       |                                |
| New Hanover County  | 22   | 1500EST               |                        |                       | 0              | 0       | 3                | ?     | Thunderstorm/Waterspout        |
|   | <p>A severe thunderstorm moved through the county, leaving scattered damage from Wilmington to Wrightsville Beach. Winds reached 58mph at the Wrightsville Beach Coast Guard Station, where observers also spotted a waterspout over the ocean southeast of Mazonboro Inlet. Numerous trees and powerlines were downed by the winds leaving over 8,000 homes without electricity.</p>  |                       |                        |                       |                |         |                  |       |                                |
| Exway, Richmond County  | 22   | 1630EST               |                        |                       | 0              | 1       | 3                | ?     | Thunderstorm                   |
|   | <p>Thunderstorm winds uprooted several trees and destroyed numerous outbuildings, including a tobacco barn. One person was slightly injured by flying debris.</p>  |                       |                        |                       |                |         |                  |       |                                |
| Winston-Salem, Forsyth County   | 22   | 1715-1800EST          |                        |                       | 0              | 0       | 5                | ?     | Thunderstorm/Tornado (FI)      |
|   | <p>A severe thunderstorm moved through the county producing high winds and a small tornado. Winds gusted to 69 mph at the Winston-Salem airport at 17:20, and a small tornado touched down briefly on the northern part of town at 17:35. Countless trees and powerlines were snapped by the winds leaving 1,500 homes without power. Structural damage was widely scattered, limited to roof damage and broken windows. One warehouse lost a section of its roof due to the tornado. Several automobiles were destroyed by falling trees.</p>   |                       |                        |                       |                |         |                  |       |                                |
| Salisbury, Rowan County   | 22   | 1830EST               |                        |                       | 0              | 0       | 4                | ?     | Thunderstorm                   |
|   | <p>Thunderstorm winds uprooted trees and downed powerlines throughout the city. The roof of an apartment building was tore off by the winds which also damaged several homes and automobiles in the area.</p>  |                       |                        |                       |                |         |                  |       |                                |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |

## NORTH CAROLINA

|  |    |         |  |  |  |   |   |   |   |              |
|--|----|---------|--|--|--|---|---|---|---|--------------|
| Harrisburg, Cabarrus County  | 22 | 1838EST |  |  |  |   |   |   |   | Funnel Cloud |
| A funnel cloud was sighted northeast of this community but it never touched down.  |    |         |  |  |  |   |   |   |   |              |
| Stanley County   | 22 | 1843EST |  |  |  |   |   |   |   | Funnel Cloud |
| A funnel cloud was seen along Highway 27 in the southwestern part of the county but it never touched the ground.   |    |         |  |  |  |   |   |   |   |              |
| Laurel Hill, Richmond County   | 24 | 1330EST |  |  |  | 2 | 0 | 0 | 0 | Lightning    |
| Lightning struck a group of people at Camp Monroe, injuring two women. Both victims received burns and one went into a full cardiac arrest but was later revived.                                      |    |         |  |  |  |   |   |   |   |              |
| Smithfield, Johnston County  | 24 | 1545EST |  |  |  | 0 | 0 | 5 | 0 | Lightning    |
| Lightning from a thunderstorm ignited a fire at a Lumber Warehouse and caused an estimated \$250,000 in damages.   |    |         |  |  |  |   |   |   |   |              |
| Macesfield, Edgecomb County  | 24 | 1600EST |  |  |  | 0 | 0 | 4 | 0 | Thunderstorm |
| Strong winds from a severe thunderstorm struck a trailer park in the southern part of the county, destroying one trailer and badly damaging another one. Several trees were also uprooted in the area. |    |         |  |  |  |   |   |   |   |              |
| Cedar Island, Carteret County  | 24 | 1800EST |  |  |  | 0 | 0 | ? | ? | Thunderstorm |
| A severe thunderstorm produced winds gusting to 69 mph at the Ferry Terminal.  |    |         |  |  |  |   |   |   |   |              |
| Oak Island, Brunswick County   | 24 | 1928EST |  |  |  | 0 | 0 | ? | ? | Thunderstorm |
| Winds gusted up to 58 mph at the Oak Island Coast Guard Station during a severe thunderstorm.  |    |         |  |  |  |   |   |   |   |              |
| Pitt County  | 27 | 1930EST |  |  |  | 0 | 0 | 4 | ? | Thunderstorm |
| Strong winds from a thunderstorm tore the roof off some horse stables located in the northern part of the county, causing \$20,000 in damages. Several trees were also uprooted in the area.           |    |         |  |  |  |   |   |   |   |              |

## 32 NORTH DAKOTA

|  |    |         |            |     |   |   |   |   |   |                          |
|--|----|---------|------------|-----|---|---|---|---|---|--------------------------|
| Grassy Butte 7E (McKenzie County)  | 01 | 1607CST |            |     |   |   |   |   |   | 3 Hail                   |
| Hail...nearly golfball size...damaged trees and gardens.   |    |         |            |     |   |   |   |   |   |                          |
| Beulah (Mercer County)   | 01 | 1702CST |            |     |   |   |   |   |   | Funnel                   |
| Coleharbor 5W (Mercer County)  | 01 | 1730CST | 2.0        | 150 | 0 | 0 | 0 | 0 | 0 | Tornado (F1)             |
| A tornado touched down in open country. No damage reported.  |    |         |            |     |   |   |   |   |   |                          |
| Washburn (Mercer County)   | 01 | 1900CST |            |     |   | 0 | 0 | 3 | 4 | Thunderstorm Winds, Hail |
| Strong thunderstorm winds tipped over an empty 60,000 bushel grain bin; and destroyed a combine and swather. Hail severely damaged crops, stripped paint from a house and broke windows. |    |         |            |     |   |   |   |   |   |                          |
| Minot AFB 35W (Ward County)  | 02 | 0045CST | Short 5-15 |     |   | 0 | 0 | 0 | 0 | Tornado (F0)             |
| A tornado touched down briefly. No damage reported.  |    |         |            |     |   |   |   |   |   |                          |
| Napoleon 4N (Logan County)   | 02 | 0747CST |            |     |   |   |   |   |   | Funnel                   |
| Valley City (Barnes County)  | 02 | 1125CST |            |     |   | 0 | 0 | 4 | 3 | Hail, Heavy Rain         |
| Golfball sized hail caused damage to buildings and gardens. Heavy rains caused flooding of basements and low lying areas.  |    |         |            |     |   |   |   |   |   |                          |
| Napoleon 15W (Emmons County)   | 02 | 1520CST | Short 5-15 |     |   | 0 | 0 | 0 | 0 | Tornado (F0)             |
| A tornado touched down briefly. No damage reported.  |    |         |            |     |   |   |   |   |   |                          |
| Crary (Ramsey County)  | 02 | 1843CST |            |     |   |   |   |   |   | Funnel                   |
| Ellendale (Dickey County)  | 02 | 1900CST |            |     |   | 0 | 0 | 0 | 4 | Hail                     |
| Golfball sized hail damaged crops.   |    |         |            |     |   |   |   |   |   |                          |
| Montpelier (Stutsman County)   | 02 | 1912CST |            |     |   | 0 | 0 | 3 | 0 | Thunderstorm Winds       |
| Strong thunderstorm winds damaged the roof and siding on a barn.   |    |         |            |     |   |   |   |   |   |                          |
| Leonard 5SE (Richland County)  | 02 | 2015CST |            |     |   | 0 | 0 | 0 | 0 | Hail                     |
| Dime sized hail was reported. No damage occurred.  |    |         |            |     |   |   |   |   |   |                          |

## NORTH DAKOTA

|  |    |                   |            |  |  |   |   |   |   |                            |
|--|----|-------------------|------------|--|--|---|---|---|---|----------------------------|
| Dickinson (Stark County)   | 06 | 2315CST           |            |  |  |   |   |   |   | 0 0 5 0 Thunderstorm Winds |
| Strong thunderstorm winds blew a roof off a pole shed into the legs of a large steel electrical tower. The shed "acted like a sail", and blew the tower over.  |    |                   |            |  |  |   |   |   |   |                            |
| Dickinson 135W (Stark County)  | 08 | 0730CST           |            |  |  | 0 | 0 | 3 | 0 | Lightning                  |
| A fire, begun by lightning, destroyed two oil storage tanks.   |    |                   |            |  |  |   |   |   |   |                            |
| Alexander 10S (McKenzie County)  | 09 | 1730CST           | Short 5-15 |  |  | 0 | 0 | 0 | 0 | Tornado (F0)               |
| A tornado touched down briefly. No damage was reported.  |    |                   |            |  |  |   |   |   |   |                            |
| Grassy Butte (McKenzie County)   | 09 | 1735CST           | Short 5-15 |  |  | 0 | 0 | 0 | 0 | Tornado (F0)               |
| A tornado touched down briefly. No damage reported.  |    |                   |            |  |  |   |   |   |   |                            |
| Watford City 10S (McKenzie County)   | 09 | 2000CST           |            |  |  | 0 | 0 | 0 | 0 | Hail                       |
| Golfball sized hail. No damage reported.   |    |                   |            |  |  |   |   |   |   |                            |
| Alexander (McKenzie County)  | 09 | 2345CST           |            |  |  | 0 | 0 | 4 | 0 | Thunderstorm Winds, Hail   |
| Strong thunderstorm winds demolished a vacant mobile home; broke power poles; and caused damage to trees, buildings and fences. Hail up to 3/4 inch was also reported.   |    |                   |            |  |  |   |   |   |   |                            |
| Williston (Williams County)  | 14 | 2255CST           |            |  |  | 0 | 0 | 0 | 0 | High Winds                 |
| Strong winds, associated with a cold front, were measured to 60mph at the Williston airport. No damage reported.   |    |                   |            |  |  |   |   |   |   |                            |
| Edgeley (LaMoure County)   | 15 | 1820CST           |            |  |  | 0 | 0 | 0 | 0 | Hail                       |
| Hail up to 3/4 inch in diameter occurred. No damage reported.  |    |                   |            |  |  |   |   |   |   |                            |
| Devils Lake 7W (Ramsey County)   | 15 | 1900CST           | Short 5-15 |  |  | 0 | 0 | 0 | 0 | Tornado (F0)               |
| A tornado touched down briefly in a field. No damage reported.   |    |                   |            |  |  |   |   |   |   |                            |
| Devils Lake (Ramsey County)  | 15 | 1905CST           |            |  |  | 0 | 0 | 5 | 0 | Thunderstorm Winds         |
| Strong thunderstorm winds damaged a garage roof; knocked down electrical lines, signs and traffic signals; downed trees; and knocked dumpsters into cars.  |    |                   |            |  |  |   |   |   |   |                            |
| Sheyenne (Eddy County)   | 15 | 1905CST           |            |  |  | 0 | 0 | 4 | 0 | Thunderstorm Winds         |
| Strong thunderstorm winds blew the top off a grain elevator; heavily damaged trees; damaged a barn and destroyed quonsets.   |    |                   |            |  |  |   |   |   |   |                            |
| Valley City 2S (Barnes County)   | 15 | 1930CST           |            |  |  | 0 | 0 | 3 | 0 | Thunderstorm Winds         |
| Strong thunderstorm winds knocked down tree limbs.   |    |                   |            |  |  |   |   |   |   |                            |
| Kathryn (Barnes County)  | 15 | 1935CST           |            |  |  |   |   |   |   | Funnel                     |
| McLeod (Ransom County)   | 15 | 2025CST           |            |  |  | 0 | 0 | 2 | 0 | Thunderstorm Winds         |
| Strong thunderstorm winds knocked down tree limbs.   |    |                   |            |  |  |   |   |   |   |                            |
| Delamere (Sargent County)  | 15 | Night             |            |  |  | 0 | 0 | 3 | 0 | Lightning                  |
| A lightning bolt damaged a two-way radio, television, and stereo.  |    |                   |            |  |  |   |   |   |   |                            |
| Wahpeton (Richland County)   | 15 | 2130CST           |            |  |  | 0 | 0 | 5 | 0 | Lightning                  |
| A fire, started by lightning, destroyed an electrical transformer.   |    |                   |            |  |  |   |   |   |   |                            |
| Manning 6SE (Dunn County) to Hazelton (Emmons County)  | 17 | 1825CST - 2250CST |            |  |  | 0 | 0 | 5 | 6 | Thunderstorm Winds, Hail   |
| A severe thunderstorm with strong winds and golfball to softball sized hail cut a path of destruction up to 12 miles wide from Manning 6SE to Hazelton. The storm blew out windows, stripped paint from houses, smashed car windshields and destroyed crops at Manning 6SE and Hebron 8NW (Dunn County) between 1825 and 1940CST; at Glen Ullin 11N, New Salem, Almont and Flasher (all in Morton County) between 2018CST and 2150CST; and at Hazelton at 2250CST. |    |                   |            |  |  |   |   |   |   |                            |
| West   | 17 | 1850CST           |            |  |  | 0 | 0 | 5 | 6 | Hail, Thunderstorm Winds   |
| Strong thunderstorm winds accompanied by hail as large as softballs damaged vehicles, smashed windshields, damaged homes, destroyed crops and injured livestock at Golva in Golden Valley County at 1850CST; Medora 26S in Billings County at 1930CST and at Amidon in Slope County at 1940CST.  |    |                   |            |  |  |   |   |   |   |                            |
| Bowman 30NW (Slope County)   | 17 | 1929CST           | Short 5-15 |  |  | 0 | 0 | 0 | 0 | Tornado (F0)               |
| A tornado touched down briefly. No damage reported.  |    |                   |            |  |  |   |   |   |   |                            |
| New England 15W (Slope County)   | 17 | 2000CST           |            |  |  |   |   |   |   | Funnels (2)                |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE   | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED <sup>1</sup> DAMAGE |       | CHARACTER OF STORM         |   |
|---|------|-----------------------|------------------------|-----------------------|----------------|---------|-------------------------------|-------|----------------------------|---|
|   |      |                       |                        |                       | KILLED         | INJURED | PROPERTY                      | CROPS |                            |   |
| <b>— NORTH DAKOTA</b>                           |      |                       |                        |                       |                |         |                               |       |                            |   |
| Wilton (Burleigh County)                        | 17   | 2005CST               |                        |                       | 0              | 0       | 0                             | 5     | Hail                       | Ping pong sized hail damaged crops and gardens.   |
| Bowman 15NW (Slope County)                      | 17   | 2020CST               | Short 5-15             |                       | 0              | 0       | 0                             | 0     | Tornado (F0)               | A tornado touched down briefly. No damage reported.   |
| Mott 15N (Hettinger County)                     | 17   | 2039CST               |                        |                       |                |         |                               |       | Funnel                     |   |
| Bismarck 20N (Burleigh County)                  | 17   | 2050CST               | Short 5-15             |                       | 0              | 0       | 0                             | 0     | Tornado (F0)               | A tornado touched down briefly. No damage reported.   |
| Mandan 40SW (Grant County)                      | 17   | 2058CST               | Short 5-15             |                       | 0              | 0       | 0                             | 0     | Tornado (F0)               | A tornado touched down briefly. No damage reported.   |
| Arena 5S (Burleigh County)                      | 17   | 2100CST               |                        |                       | 0              | 0       | 0                             | 0     | Hail                       | Walnut sized hail occurred. No damage reported.   |
| Burt (Hettinger County)                         | 17   | 2141CST               |                        |                       |                |         |                               |       | Funnel                     |   |
| Garrison to Coleharbor (McLean County)          | 17   | 2135CST-2230CST       |                        |                       | 0              | 0       | 5                             | 5     | Hail, Funnel               | Golfball sized hail destroyed crops, damaged vehicles and buildings, knocked out windows, and killed small animals. Funnel cloud was sighted near Coleharbor about 2215CST.   |
| Carson 20SE (Grant County)                      | 18   | 0025CST               |                        |                       |                |         |                               |       | Funnel                     |   |
| Fort Ransom (Ransom County)                     | 18   | Morning               |                        |                       | 0              | 0       | 5                             | 0     | Lightning                  | A fire, started by lightning, destroyed a house.  |
| Medora (Billings County)                        | 18   | 0430CST               |                        |                       | 0              | 0       | 3                             | 0     | Thunderstorm Winds         | Strong thunderstorm winds uprooted trees.   |
| Belfield (Stark County)                         | 18   | 0500CST               |                        |                       | 0              | 0       | 4                             | 4     | Hail                       | Golfball sized hail destroyed crops, knocked out windows, and damaged vehicles.   |
| Mapleton (Cass County)                          | 18   | 2350CST               |                        |                       | 0              | 0       | 2                             | 0     | Lightning                  | A fire, started by lightning, destroyed a storage shed.   |
| Williston (Williams County)                     | 19   | 0510CST               |                        |                       | 0              | 0       | 0                             | 0     | Thunderstorm Winds         | Strong thunderstorm winds of 58mph were recorded at the Williston airport. No damage reported.  |
| Stanley 5S (Mountrail County)                   | 19   | 0600CST               |                        |                       |                |         |                               |       | Funnel                     |   |
| Tagus (Ward County)                             | 19   | 0638CST               |                        |                       | 0              | 0       | 0                             | 0     | Hail                       | Dime sized hail occurred. No damage reported.   |
| Minot Area (Ward County)                        | 19   | 0701CST               |                        |                       | 0              | 0       | 5                             | 0     | Thunderstorm Winds, Funnel | Strong thunderstorm winds measured to 58mph at Minot at 0701CST and to 74mph at Minot AFB at 0705CST knocked over power poles, tore shingles from roofs, and damaged hangars. A funnel cloud was sighted near the Minot AFB during the storm. |
| Granville 10N (McHenry County)                  | 19   | 0724CST               |                        |                       | 0              | 0       | 3                             | 0     | Thunderstorm Winds         | Strong thunderstorm winds blew over power poles.  |
| Glenburn (Renville County)                      | 19   | 0730CST               |                        |                       | 0              | 0       | 4                             | 0     | Thunderstorm Winds         | Strong thunderstorm winds blew the roof off a mobile home and part of a roof off a house.   |
| Rugby 1S (Pierce County)                        | 19   | 0825CST               |                        |                       |                |         |                               |       | Funnel                     |   |
| Edgeley 12N (LaMoure County)                    | 19   | 1040CST               |                        |                       | 0              | 0       | 0                             | 0     | Hail                       | Hail up to 1-1/2 inches in diameter occurred. No damage reported.   |
| Rogers (Barnes County)                          | 19   | 1053CST               |                        |                       | 0              | 0       | 4                             | 0     | Thunderstorm Winds         | Strong thunderstorm winds damaged a grain bin and trees, and blew the roof off a storage shed.  |
| Moorton (Richland County)                       | 19   | 1210CST               |                        |                       | 0              | 0       | 0                             | 0     | Thunderstorm Winds         | Strong thunderstorm winds were measured to 60mph. No damage reported.   |
| <b>— NORTH DAKOTA</b>                           |      |                       |                        |                       |                |         |                               |       |                            |   |
| Hettinger (Adams County)                        | 20   | 0005CST               |                        |                       | 0              | 0       | 0                             | 4     | Thunderstorm Winds         | Strong thunderstorm winds measured at 80 to 90mph broke corn stalks and damaged wheat.  |
| Flasher (Morton County)                         | 20   | 0205CST               |                        |                       | 0              | 0       | 0                             | 0     | Thunderstorm Winds         | Strong thunderstorm winds were measured to 75mph. No damage occurred.   |
| Flasher (Morton County)                         | 29   | 2122CST               |                        |                       | 0              | 0       | 0                             | 0     | Hail                       | Golfball sized hail. No damage reported.  |
| Bottineau 20W to Willow City (Bottineau County) | 30   | 1600CST-1900CST       |                        |                       | 0              | 0       | 0                             | 5     | Hail                       | Mothball to golfball sized hail destroyed crops along a two-mile wide band.   |
| Inkster (Grand Forks County)                    | 30   | 1700CST               |                        |                       | 0              | 0       | 3                             | 5     | Hail                       | Golfball sized hail damaged crops, broke windows on a house, demolished a garden, and chipped off paint from a house.   |
| Drayton (Pembina County)                        | 30   | 1700CST               |                        |                       | 0              | 0       | 5                             | 3     | Thunderstorm Winds         | Strong thunderstorm winds uprooted trees, overturned a metal storage shed, damaged a grain elevator, and damaged crops.   |
| Chaffee (Cass County)                           | 30   | 1748CST               |                        |                       | 0              | 0       | 0                             | 0     | Hail                       | Hail up to 1-1/2 inches in diameter occurred. No damage was reported.   |
| Davenport 5W (Cass County)                      | 30   | 1755CST               |                        |                       | 0              | 0       | 0                             | 0     | Tornado (F0)               | A tornado touched down briefly in a field. No damage reported.  |
| Davenport (Cass County)                         | 30   | 1823CST               |                        |                       | 0              | 0       | 2                             | 0     | Hail                       | Hail up to 3/4 inch in diameter stripped leaves from area trees.  |
| Hickson (Cass County)                           | 30   | 1835CST               |                        |                       | 0              | 0       | 0                             | 0     | Hail                       | Hail up to 1-3/4 inches in diameter occurred. No damage reported.   |
| <b>33 OHIO</b>                                  |      |                       |                        |                       |                |         |                               |       |                            |   |
| Putnam County                                   | 01   | 1238-1310 EST         |                        |                       | 0              | 0       | 4                             | 0     | High Wind                  | A thunderstorm with high winds passed through the county damaging buildings, downing trees and utility lines. The most severe damage was in the Ottawa area.  |
| Put-In-Bay, Ottawa County                       | 01   | 1414EST               |                        |                       | 0              | 0       | 3                             | 0     | Hail                       | Three quarter to one inch diameter hail fell on Middle Bass Island damaging some boat covers.   |
| Franklin County                                 | 01   | 1505-1540 EST         |                        |                       | 0              | 0       | 4                             | 0     | High Wind and Hail         | A thunderstorm moved through the northern half of Franklin county. The heaviest wind damage occurred in Dublin and one inch diameter hail fell in the north part of Columbus.   |
| Van Wert County                                 | 01   | 2045EST               |                        |                       | 0              | 0       | 3                             | 0     | Hail                       | Three quarter inch hail was reported in Wren as a thunderstorm passed through.  |
| Wyandot County                                  | 01   | 2050EST               |                        |                       | 0              | 0       | 4 <sup>0</sup>                | 0     | C Hail                     | One inch diameter hail fell in the Carey area doing minor damage to buildings and more severe damage to crops.  |
| Auglaize County                                 | 01   | 2100-2130 EST         |                        |                       | 0              | 0       | 4                             | 0     | High Wind                  | Thunderstorm winds downed several trees and utility lines throughout the county.  |
| Wyandot and Seneca Counties                     | 01   | 2109-2125 EST         |                        |                       | 0              | 0       | 4                             | 0     | High Wind and Hail         | A thunderstorm moved through these counties with one inch diameter hail reported at Republic and Sycamore. Winds also downed trees and utility lines in Republic. Some minor structural damage was also reported.                             |
| Cuyahoga and Lorain Counties                    | 02   | 0200EST               |                        |                       | 0              | 0       | 4 <sup>0</sup>                | 0     | C Flash Flood              | Heavy thunderstorm rains caused flash flooding of several creeks and streams in southern Lorain and Cuyahoga counties. The Cuyahoga River went out of its banks flooding farmlands and some small factories.                                  |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE                                       | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED <sup>1</sup> DAMAGE |       | CHARACTER OF STORM  |
|---|------|-----------------------|------------------------|-----------------------|----------------|---------|-------------------------------|-------|---|
|   |      |                       |                        |                       | KILLED         | INJURED | PROPERTY                      | CROPS |   |
| <b>OHIO</b>                                 |      |                       |                        |                       |                |         |                               |       |   |
| Crawford County                             | 02   | 1530EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds produced considerable tree and property damage in the northern half of the county.   |
| Hancock County                              | 02   | 1724EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind and Hail  |
|   |      |                       |                        |                       |                |         |                               |       | A thunderstorm moved through the county and produced 3/4 inch diameter hail and strong winds in the Corey and Rawson areas. Several trees and utility lines were downed.  |
| Wood County                                 | 02   | 1753EST               |                        |                       | 0              | 0       | 3                             | 0     | Hail  |
|   |      |                       |                        |                       |                |         |                               |       | Three quarter inch diameter hail fell from a thunderstorm at Hoytville.   |
| Muskingum County                            | 02   | 1815EST               |                        |                       | 0              | 37      | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds downed trees and utility lines in several areas of the county. A tent was toppled at a fair in Hopewell and 37 people were injured.  |
| Holmes and Coshocton Counties               | 02   | 1824-1845 EST         |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds damaged farm buildings at Killbuck and Coshocton.  |
| Summit County                               | 03   | 1652EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds downed trees and caused some roof damage in Cuyahoga Falls.  |
| Logan County                                | 04   | 1402EST               |                        |                       | 0              | 0       | 4                             | 0     | High Winds  |
|   |      |                       |                        |                       |                |         |                               |       | 52 knot winds were reported at Russel Point. Damage was done to trees and several buildings.  |
| Greene County                               | 04   | 1430EST               |                        |                       | 0              | 0       | 3                             | 0     | Hail  |
|   |      |                       |                        |                       |                |         |                               |       | Three quarter inch diameter hail fell at Wright-Patterson Air Force Base.   |
| Hardin County                               | 04   | 1430EST               | 1                      | 50                    | 0              | 0       | 4                             | 0     | Tornado (F1)  |
|   |      |                       |                        |                       |                |         |                               |       | A small tornado touched down about 4 miles east of Kenton along Highway 67. Most damage was to trees however a farm complex had substantial damage.   |
| Montgomery County                           | 04   | 1441EST               |                        |                       | 0              | 0       | 3                             | 0     | Hail  |
|   |      |                       |                        |                       |                |         |                               |       | Three quarter inch diameter hail was reported in Miamisburg. Only minor damage occurred   |
| Union County                                | 04   | 1500EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds caused damage throughout Union County. Trees were downed and several buildings sustained minor damage.   |
| Seneca and Sandusky Counties                | 04   | 1500-1530 EST         |                        |                       | 0              | 0       | 4                             | 0     | High Wind and Hail  |
|   |      |                       |                        |                       |                |         |                               |       | Winds of 58 mph were reported in Fostoria at 1500EST. Many trees and utility lines were downed and windows blown out. 60 mph winds hit Fremont at 1503EST damaging buildings and trees. Golfball size hail fell at Tiffin at 1505EST. Significant wind damage to buildings and trees occurred on the western side of Bellevue at 1530EST. |
| Montgomery and Greene Counties              | 04   | 1506-1530 EST         |                        |                       | 0              | 0       | 4                             | 0     | High Wind and Hail  |
|   |      |                       |                        |                       |                |         |                               |       | Wind damage to trees and buildings occurred in Xenia at 1506EST. Strong winds hit Dayton downing trees and utility lines. Also 3/4 inch diameter hail was reported in many areas of Dayton.   |
| Crawford County                             | 04   | 1510EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds downed trees and damaged buildings in Bucyrus and Galion.  |
| Marion County                               | 04   | 1532EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds reached 71 mph in the city of Marion. Minor structural damage was done but several trees and utility lines were downed.  |
| Erie and Huron Counties                     | 04   | 1535-1545 EST         |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | A severe thunderstorm crossed these counties doing damage in several areas. Hardest hit were Monroeville, Vermilion and Norwalk.  |
| Marblehead, Ottawa County                   | 04   | 1540EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds of 70 mph did considerable damage in Marblehead. Several boats were damaged or overturned. Trees and utility lines were downed and buildings sustained roof and siding damage.   |
| <b>OHIO</b>                                 |      |                       |                        |                       |                |         |                               |       |   |
| Richland and Ashland Counties               | 04   | 1600-1700 EST         |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds did damage in the northern parts of these counties. The storm hit Richland county around 1600EST and Ashland county around 1630EST.  |
| Lorain County                               | 04   | 1600-1630 EST         |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds downed trees throughout the county. Structural damage was minimal.   |
| Morrow and Crawford Counties                | 04   | 1615EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds downed trees and did minor structural damage in many areas of Morrow and Crawford counties.  |
| Waynes, Holmes and Coshocton Counties       | 04   | 1620-1640 EST         |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds downed trees and utility lines in many areas of these counties. There also was considerable damage done to farm outbuildings.  |
| Cuyahoga County                             | 04   | 1630-1650 EST         |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | Considerable wind damage occurred as a severe thunderstorm moved through the Greater Cleveland area. Trees and lines were downed and several buildings sustained wind damage.   |
| Summit and Stark Counties                   | 04   | 1635-1655 EST         |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | Sixty to 70 mph winds moved through these counties downing trees and utility lines and damaging buildings. The heaviest damage was in Canal Fulton, Richfield and Cuyahoga Falls.   |
| Lake and Geauga Counties                    | 04   | 1650-1720 EST         |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds estimated at 70 mph or high did considerable damage in these counties, especially in the Mentor area. Buildings were damaged and trees and lines downed.   |
| Carroll and Tuscarawas Counties             | 04   | 1700-1730 EST         |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | A thunderstorm moved through these counties with winds damaging trees and buildings.  |
| Portage County                              | 04   | 1710EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds downed trees and utility lines and did some roof and siding damage.  |
| Vinton County                               | 04   | 1715EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds downed several trees and utility lines and damaged some farm buildings.  |
| Athens County                               | 04   | 1730-1800 EST         |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | Thunderstorms winds as high as 71 mph in Athens and Amesville caused considerable damage to buildings and trees.  |
| Ashtabula County                            | 04   | 1730EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds downed trees and damaged several buildings in the city of Ashtabula. Winds were estimated as high as 75 mph.   |
| Meigs County                                | 04   | 1730EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | Several trees and utility lines were downed throughout the county by thunderstorm winds. Farm buildings were also damaged.  |
| Trumbull and Mahoning Counties              | 04   | 1730-1800 EST         |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds downed trees and damaged buildings in these counties. Niles was especially hard hit.   |
| Washington and Monroe Counties              | 04   | 1755-1830 EST         |                        |                       | 0              | 1       | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds downed trees and caused structural damage throughout these counties. A man was injured in Woodsfield when winds overturned a stage at an outdoor festival.   |
| Harrison and Guernsey Counties              | 04   | 1800-1830 EST         |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | Winds as high as 61 mph downed trees and utility lines and damaged buildings, especially in the Cambridge area.   |
| Marietta, Washington County                 | 15   | 1745EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds did minor damage to a few buildings and downed trees and utility lines.  |
| Coshocton, Harrison and Tuscarawas Counties | 17   | 1230-1315 EST         |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|   |      |                       |                        |                       |                |         |                               |       | Thunderstorms moved through these counties with trees and utility lines being downed and minor damage to farm out buildings.  |



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

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|--|------|-----------------------|------------------------|-----------------------|----------------|---------|-------------------------------|-------|---|
|  |      |                       |                        |                       | KILLED         | INJURED | PROPERTY                      | CROPS |   |
| <b>OHIO</b>  |      |                       |                        |                       |                |         |                               |       |   |
| Wayne County                                       | 17   | 1330EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|  |      |                       |                        |                       |                |         |                               |       | Tunderstorm winds damaged several homes in Sterling. Trees and utility lines were also downed.  |
| Morrow County                                      | 17   | 1330EST               |                        |                       | 0              | 0       | 4 <sup>0</sup>                | C     | Hail  |
|  |      |                       |                        |                       |                |         |                               |       | One and a half inch diameter hail was reported in the county. A bean field was flattened.   |
| Stark County                                       | 17   | 1350EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|  |      |                       |                        |                       |                |         |                               |       | Tree and structural damage occurred in the southeast part of the county during a thunderstorm.  |
| Allen County                                       | 17   | 1430EST               |                        |                       | 0              | 1       | 0                             | 0     | Lightning   |
|  |      |                       |                        |                       |                |         |                               |       | A 21 year old man was struck by lightning while standing under a tree near Lima.  |
| Franklin County                                    | 17   | 1500EST               |                        |                       | 0              | 1       | 0                             | 0     | Lightning   |
|  |      |                       |                        |                       |                |         |                               |       | Lightning struck and critically injured a 4 year old boy as he stepped off a porch into the yard.   |
| Richland County                                    | 17   | 1500EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|  |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds downed trees and lines in Shelby. There also were reports of minor structural damage.  |
| Ashland County                                     | 17   | 1515EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|  |      |                       |                        |                       |                |         |                               |       | Trees and utility lines were downed in northern Ashland county by thunderstorm winds.   |
| Wayne County                                       | 17   | 1519EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|  |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds did minor roof damage to some farm buildings and downed trees and utility lines.   |
| Summit County                                      | 17   | 1520EST               |                        |                       | 0              | 0       | 3                             | 0     | Hail  |
|  |      |                       |                        |                       |                |         |                               |       | Three quarter inch diameter hail did minor property damage in Fairlawn.   |
| Franklin County                                    | 17   | 1530EST               |                        |                       | 0              | 0       | 3                             | 0     | Hail  |
|  |      |                       |                        |                       |                |         |                               |       | Three quarter inch diameter hail was reported in many parts of Columbus. Only minor property damage occurred.   |
| Butler County                                      | 17   | 1530EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|  |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds downed trees and utility lines in Middletown. Minor structural also occurred.  |
| Jefferson County                                   | 17   | 1530EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|  |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds did minor structural damage and downed trees and utility lines in the Steubenville area.   |
| Trumbull, Mahoning and Columbiana Counties         | 17   | 1600EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|  |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds downed many trees and utility lines throughout these counties. Minor structural damage also occurred.  |
| Lawrence County                                    | 17   | 1645EST               |                        |                       | 0              | 0       | 4 <sup>0</sup>                | C     | Hail  |
|  |      |                       |                        |                       |                |         |                               |       | One inch diameter hail was reported in many areas of Lawrence county. Several fields sustained crop damage.   |
| Vinton County                                      | 18   | 2000EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|  |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds downed trees and utility lines in southern Vinton county.  |
| Clermont County                                    | 18   | 2130EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|  |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds damaged some buildings and downed trees two miles southwest of Batavia.  |
| Cuyahoga, Lake, Geauga and Ashtabula Counties      | 21   | 1450-1530 EST         |                        |                       | 0              | 0       | 5                             | 0     | High Wind and Lightning   |
|  |      |                       |                        |                       |                |         |                               |       | A severe thunderstorm moved through these counties downing trees and lines and causing minor property damage. The storm moved from the eastern Cleveland suburbs east. Damage was reported beginning at 1450EST in Cuyahoga county, at 1510EST in lake county, at 1514EST in Geauga county and at 1520EST in Ashtabula county. Several lightning strikes started fires and knocked out electricity. |
| Mahoning County                                    | 21   | 1520EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|  |      |                       |                        |                       |                |         |                               |       | Severe thunderstorm winds downed trees and lines in Berlin Center. Some roof damage also occurred.  |
| <b>OHIO</b>  |      |                       |                        |                       |                |         |                               |       |   |
| Summit and Portage Counties                        | 21   | 1530EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind and Hail  |
|  |      |                       |                        |                       |                |         |                               |       | A thunderstorm produced damaging winds and large hail in these counties. Trees and lines were downed. Golf ball size hail was reported in Kent at 1530EST and 1 1/8 inch diameter hail fell in Stow at 1530EST.   |
| Erie County  | 21   | 1535EST               |                        |                       | 0              | 0       | 4 <sup>0</sup>                | C     | Hail  |
|  |      |                       |                        |                       |                |         |                               |       | One inch diameter hail fell near Milan. Damage to tomato and melon fields was reported.   |
| Mahoning and Columbiana Counties                   | 21   | 1545EST               |                        |                       | 0              | 0       | 5                             | 0     | High Wind   |
|  |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds as high as 85 mph ripped through these counties. The most severe damage occurred in Rogers, New Waterford and Salem where several buildings were damaged.  |
| Stark and Summit Counties                          | 21   | 1600EST               |                        |                       | 0              | 0       | 4                             | 0     | Hail  |
|  |      |                       |                        |                       |                |         |                               |       | One and a half inch diameter hail was reported in many areas of these counties.   |
| Carroll County                                     | 21   | 1630EST               |                        |                       | 0              | 0       | 4 <sup>0</sup>                | C     | Hail  |
|  |      |                       |                        |                       |                |         |                               |       | Golf ball size hail was reported in Malvern. The hail did crop damage.  |
| Portage County                                     | 21   | 1645EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|  |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds downed trees and utility lines in Mantua.  |
| Knox and Richland Counties                         | 21   | 1710-1730 EST         |                        |                       | 0              | 0       | 4                             | 0     | High Wind and Hail  |
|  |      |                       |                        |                       |                |         |                               |       | Golf ball size hail was reported in southern Mansfield at 1710EST and wind damage occurred in many areas of Knox county.  |
| Jefferson County                                   | 21   | 1720EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|  |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds caused damage to trees and buildings in the northern half of the county.   |
| Harrison County                                    | 21   | 1725EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|  |      |                       |                        |                       |                |         |                               |       | A thunderstorm crossed the county and downed several trees and utility lines.   |
| Columbiana County                                  | 21   | 1730EST               |                        |                       | 0              | 1       | 4                             | 0     | High Wind   |
|  |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds downed trees and damaged buildings in East Liverpool. A tree fell on a car and severely injured a woman.   |
| Morrow County                                      | 21   | 1745EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|  |      |                       |                        |                       |                |         |                               |       | A thunderstorm moved through the northern part of the county downing trees and dines.   |
| Holmes County                                      | 21   | 1751EST               |                        |                       | 0              | 0       | 3                             | 0     | Hail  |
|  |      |                       |                        |                       |                |         |                               |       | Golf ball sized hail fell in Millersburg and caused minor structural damage.  |
| Summit, Portage and Stark Counties                 | 21   | 1755-1830 EST         |                        |                       | 0              | 0       | 5                             | 0     | High Wind and Hail  |
|  |      |                       |                        |                       |                |         |                               |       | A thunderstorm produced one inch diameter hail and damaging winds in these counties. Minor structural damage occurred and several trees and utility lines were downed.  |
| Huron County                                       | 21   | 1810EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|  |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds damaged some buildings in Greenwich and downed several trees and utility lines.  |
| Coshocton, Holmes, Tuscarawas and Carroll Counties | 21   | 1810-1900 EST         |                        |                       | 0              | 0       | 5                             | 0     | High Wind and Hail  |
|  |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds downed trees and lines and damaged several buildings. Large hail was also reported. Three inch diameter hail fell at Harrisonburg at 1830EST and 1 1/2 inch diameter hail fell in Tuscarawas county at 1852EST.  |
| Richland and Ashland Counties                      | 21   | 1830EST               |                        |                       | 0              | 0       | 4 <sup>0</sup>                | C     | Hail  |
|  |      |                       |                        |                       |                |         |                               |       | Golf ball size hail fell in southern Richland and Ashland counties. Minor crop damage occurred.   |
| Marion County                                      | 21   | 1900EST               |                        |                       | 0              | 0       | 4                             | 0     | High Wind   |
|  |      |                       |                        |                       |                |         |                               |       | A thunderstorm produced winds that caused property and tree damage in the northwest part of the county.   |
| Muskingum County                                   | 21   | 1925EST               |                        |                       | 0              | 1       | 4                             | 0     | High Wind   |
|  |      |                       |                        |                       |                |         |                               |       | Thunderstorm winds damaged buildings and downed trees in Zanesville. A man was injured when struck by a falling tree limb.  |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE                                 | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         |          |       | ESTIMATED DAMAGE |         |          |       | CHARACTER OF STORM |  |
|---------------------------------------|------|-----------------------|------------------------|-----------------------|----------------|---------|----------|-------|------------------|---------|----------|-------|--------------------|--|
|                                       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY | CROPS | KILLED           | INJURED | PROPERTY | CROPS |                    |  |
| <b>OHIO</b>                           |      |                       |                        |                       |                |         |          |       |                  |         |          |       |                    |  |
| Jefferson County                      | 21   | 1930EST               |                        |                       | 0              | 0       | 4        | 0     |                  |         |          |       | High Wind          | A thunderstorm produced 60 mph winds in Winterville. Trees and lines were downed.  |
| Washington County                     | 21   | 1930EST               |                        |                       | 0              | 1       | 4        | 0     |                  |         |          |       | High Wind          | Thunderstorm winds caused widespread damage in Marietta. A woman was injured when a tree fell on a car she was driving.  |
| Guernsey and Harrison Counties        | 21   | 1930-2000 EST         |                        |                       | 0              | 0       | 4        | 0     |                  |         |          |       | High Wind and Hail | Thunderstorms moved through these counties damaging buildings and trees. One inch diameter hail was reported at Freeport at 1942EST.   |
| Licking County                        | 21   | 1935EST               |                        |                       | 0              | 0       | 4        | 0     |                  |         |          |       | High Wind          | Thunderstorm winds downed trees and lines in the eastern half of the county.   |
| Washington County                     | 21   | 2006EST               |                        |                       | 0              | 0       | 4        | 0     |                  |         |          |       | High Wind          | A second severe thunderstorm of the day moved through Marietta downing trees and utility lines.  |
| Gallia County                         | 21   | 2120EST               |                        |                       | 0              | 0       | 4        | 0     |                  |         |          |       | High Wind          | A severe thunderstorm downed trees and lines in Gallipolis. Minor structural damage also occurred.   |
| Brown County                          | 23   | 1500EST               |                        |                       | 0              | 0       | 4        | 0     |                  |         |          |       | High Wind          | Thunderstorm winds downed trees and utility lines in many parts of the county.   |
| Adams County                          | 23   | 1520EST               |                        |                       | 0              | 0       | 4        | 0     |                  |         |          |       | High Wind          | Thunderstorm winds damaged farm buildings and downed trees and lines in West Union.  |
| Morgan County                         | 23   | 1530EST               |                        |                       | 0              | 0       | 4        | 0     |                  |         |          |       | High Wind          | A severe thunderstorm downed trees and utility lines in the southern part of the county.   |
| Montgomery County                     | 23   | 1551EST               |                        |                       | 0              | 27      | 3        | 0     |                  |         |          |       | High Wind          | Gust front winds of 49 knots blew down a tent at the Dayton Airport during an air show. 27 people were injured, but only 3 injuries were serious. No thunderstorm was in the area at the time. |
| Pike County                           | 23   | 1600EST               |                        |                       | 0              | 0       | 4        | 0     |                  |         |          |       | High Wind          | Wind damage occurred in the Piketon area during a thunderstorm.  |
| Prebble County                        | 23   | 1625EST               |                        |                       | 0              | 0       | 4        | 0     |                  |         |          |       | High Wind          | Thunderstorm winds downed trees and utility lines. Some damage was also done to barns and farm out buildings.  |
| Butler County                         | 23   | 1630EST               |                        |                       | 0              | 0       | 4        | 0     |                  |         |          |       | High Wind          | Thunderstorm winds downed trees and damaged buildings at Oxford and Hamilton.  |
| Clermont County                       | 23   | 1630EST               |                        |                       | 0              | 0       | 4        | 0     |                  |         |          |       | High Wind          | Damage to trees and farm out buildings occurred at Owensville during a thunderstorm.   |
| Hamilton County                       | 23   | 1645EST               |                        |                       | 0              | 2       | 0        | 0     |                  |         |          |       | Lightning          | Lightning struck and injured a couple in their backyard in Cincinnati.   |
| Gallia County                         | 23   | 1650EST               |                        |                       | 0              | 0       | 4        | 0     |                  |         |          |       | High Wind          | Thunderstorm winds downed trees and utility lines in rural areas of the county.  |
| Clinton, Highland and Brown Counties  | 23   | 1700EST               |                        |                       | 0              | 0       | 4        | 0     |                  |         |          |       | High Wind          | Severe thunderstorms moved through these counties downing trees and lines. Some buildings in Wilmington sustained roof and window damage.  |
| Ross County                           | 23   | 1745EST               |                        |                       | 0              | 0       | 4        | 0     |                  |         |          |       | High Wind          | Thunderstorm winds downed trees and lines in several areas of the county.  |
| Athens County                         | 23   | 1800EST               |                        |                       | 0              | 0       | 5        | 0     |                  |         |          |       | High Wind          | Thunderstorm winds as high as 70 mph caused considerable damage in the northern part of the county. Several barns were damaged.  |
| <b>OHIO</b>                           |      |                       |                        |                       |                |         |          |       |                  |         |          |       |                    |  |
| Scioto and Lawrence Counties          | 23   | 1840EST               |                        |                       | 0              | 0       | 4        | 0     |                  |         |          |       | High Wind          | Severe thunderstorms caused damage to trees and buildings in these counties. Most damage was in the Chesapeake area.   |
| Pickaway County                       | 23   | 2230EST               |                        |                       | 0              | 0       | 4        | 0     |                  |         |          |       | High Wind          | Several trees and utility lines were downed in Circleville. Only minor structural damage occurred.   |
| Montgomery, Clark and Greene Counties | 23   | 2241-2320 EST         |                        |                       | 0              | 0       | 4        | 0     |                  |         |          |       | High Wind          | A thunderstorm produced damaging winds in these counties. Winds were recorded at 62 knots at the Dayton Airport as the storm moved through.  |
| Ottawa County                         | 29   | 1200EST               |                        |                       | 1              | 0       | 0        | 0     |                  |         |          |       | Lightning          | Lightning struck and killed a migrant farm worker.   |
| Alliance, Stark County                | 31   | 1700EST               |                        |                       | 0              | 0       | 4        | 0     |                  |         |          |       | High Wind          | Thunderstorm winds blew out windows and downed trees and utility lines in Alliance.  |
| <b>34 OKLAHOMA</b>                    |      |                       |                        |                       |                |         |          |       |                  |         |          |       |                    |  |
| Yuba, Albany, Bryan County            | 01   | Afternoon             |                        |                       | 0              | 0       | ?        | 0     |                  |         |          |       | Wind               | Strong winds downed tree limbs in Yuba and Albany.   |
| Hugo, Choctaw County                  | 01   | 1458CST               |                        |                       | 0              | 0       | 0        | 0     |                  |         |          |       | Funnel Cloud       | A funnel cloud was reported 3 1/2 miles south of Hugo.   |
| Greer County                          | 01   | 1943 CST              |                        |                       | 0              | 0       | 0        | 0     |                  |         |          |       | Wind               | Wind gusts of 60 m.p.h. were reported 14 miles south and 10 miles east of Erick. No damage reported.   |
| Greer County                          | 01   | 2003CST               |                        |                       | 0              | 0       | 0        | 0     |                  |         |          |       | Wind               | Wind gusts of 60 m.p.h. were reported 10 miles south and 10 miles east of Erick. No damage reported.   |
| Texola, Beckham County                | 01   | 2019CST               |                        |                       | 0              | 0       | 0        | 0     |                  |         |          |       | Wind               | Winds gusted to 60 to 70 m.p.h. No damage reported.  |
| McCurtain County                      | 02   | Morning               |                        |                       | 0              | 0       | ?        | ?     |                  |         |          |       | Flooding           | Rainfall of 5 to 9 inches caused flooding in eastern McCurtain County. Extensive damage to roads and bridges occurred.   |
| Redland, McCurtain County             | 13   | 1930CST               |                        |                       | 0              | 0       | 4        | 0     |                  |         |          |       | Lightning          | Lightning started a house fire. Damage estimated at \$6,500.   |
| Sapulpa, Creek County                 | 25   | 1755CST               |                        |                       | 0              | 0       | 4        | 0     |                  |         |          |       | Lightning          | Lightning struck a tree which toppled onto a house causing damages of \$40,000.  |
| Broken Arrow, Tulsa County            | 25   | 1800-1900CST          |                        |                       | 0              | 0       | ?        | 0     |                  |         |          |       | Wind               | Strong thunderstorm winds downed a drive in movie screen and power lines.  |
| Broken Arrow, Tulsa County            | 25   | 1800-1900CST          |                        |                       | 0              | 0       | 4        | 0     |                  |         |          |       | Lightning          | Lightning strikes damaged four homes during same time as account above.  |
| Sapulpa, Creek County                 | 25   | 1800-1900CST          |                        |                       | 0              | 0       | 4        | 0     |                  |         |          |       | Wind               | Strong winds destroyed a mobile home and damaged a furniture store. Numerous power outages were caused by tree limbs being blown into power lines.   |
| Beggs, Okmulgee County                | 25   | 1800CST               |                        |                       | 0              | 0       | ?        | 0     |                  |         |          |       | Wind               | Strong winds snapped a utility pole.   |
| Nuskogee, Nuskogee County             | 30   | 1600CST               |                        |                       | 0              | 0       | 4        | 0     |                  |         |          |       | Wind               | Strong winds damaged the roof of a home and downed trees and power lines.  |
| Fort Gibson, Muskogee County          | 30   | 1600CST               |                        |                       | 0              | 0       | 0        | 0     |                  |         |          |       | Wind               | Strong winds downed trees and power lines.   |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE  | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS   |         |          |       | ESTIMATED* DAMAGE | CHARACTER OF STORM          |
|--|------|-----------------------|------------------------|-----------------------|--|---------|----------|-------|-------------------|-----------------------------|
|  |      |                       |                        |                       | KILLED   | INJURED | PROPERTY | CROPS |                   |                             |
| <b>OKLAHOMA</b>                                      |      |                       |                        |                       |  |         |          |       |                   |                             |
| Weich, Craig County                                  | 30   | 1630CST               |                        |                       | 0  | 2       | 4        | 0     |                   | Wind                        |
|  |      |                       |                        |                       | Two persons were injured when strong winds destroyed a trailer house. The winds also rolled a pickup truck.  |         |          |       |                   |                             |
| Muskogee, Muskogee County                            | 30   | 1632CST               | ?                      | ?                     | 0  | 0       | 0        | 0     |                   | Tornado (F0)                |
|  |      |                       |                        |                       | A thin ropelike tornado touched down briefly 4 miles north of Muskogee.  |         |          |       |                   |                             |
| Checotah, McIntosh County                            | 30   | 1645CST               |                        |                       | 0  | 0       | ?        | 0     |                   | Wind                        |
|  |      |                       |                        |                       | Strong winds destroyed a building which was under construction. Truck trailers and small buildings were overturned and trees were uprooted.  |         |          |       |                   |                             |
| Meeker, Lincoln County                               | 30   | 1650CST               |                        |                       | 0  | 0       | ?        | 0     |                   | Hail, wind                  |
|  |      |                       |                        |                       | Three-fourths inch hail and winds gusting to 50 m.p.h. were reported.  |         |          |       |                   |                             |
| Tinker Air Force Base, Oklahoma County               | 30   | 1717CST               |                        |                       | 0  | 0       | ?        | 0     |                   | Wind                        |
|  |      |                       |                        |                       | A wind gust of 61 m.p.h. was recorded at Tinker AFB.   |         |          |       |                   |                             |
| Jones, Harrah, Choctaw, Nicoma Park, Oklahoma County | 30   | 1730CST               |                        |                       | 0  | 0       | ?        | 0     |                   | Wind                        |
|  |      |                       |                        |                       | Strong winds unroofed small buildings and downed trees and power lines.  |         |          |       |                   |                             |
| Texanna, McIntosh County                             | 30   | 1830CST               | Short Narrow           |                       | 0  | 0       | 4        | 0     |                   | Tornado (F2)                |
|  |      |                       |                        |                       | A tornado touched down near Lake Eufaula. Several boat stalls and boats were destroyed. Trees were uprooted and roofs were taken off outbuildings. Two residences were damaged and a pickup truck was destroyed when a cattle feeder landed on it.   |         |          |       |                   |                             |
| Vici, Dewey County                                   | 31   | 1330CST               |                        |                       | 0  | 0       | ?        | 0     |                   | Wind                        |
|  |      |                       |                        |                       | Strong winds unroofed small buildings.   |         |          |       |                   |                             |
| Bartlesville, Washington County                      | 31   | 1650CST               |                        |                       | 0  | 0       | ?        | 0     |                   | Wind                        |
|  |      |                       |                        |                       | Strong winds damaged roofs and downed trees and power lines.   |         |          |       |                   |                             |
| Cheyenne, Roger Mills County                         | 31   | Evening               |                        |                       | 0  | 0       | 0        | 0     |                   | Lightning                   |
|  |      |                       |                        |                       | Lightning started a prairie fire.  |         |          |       |                   |                             |
| Fairmont, Garfield County                            | 31   | 1700CST               |                        |                       | 0  | 0       | 0        | 0     |                   | Wind                        |
|  |      |                       |                        |                       | Strong winds downed trees. One tree 10 inches in diameter was snapped.   |         |          |       |                   |                             |
| Claremore, Rogers County                             | 31   | 1735CST               |                        |                       | 0  | 0       | 4        | 0     |                   | Lightning                   |
|  |      |                       |                        |                       | Lightning started a house fire and also started a grass fire south of Claremore.   |         |          |       |                   |                             |
| Claremore, Rogers County                             | 31   | 1735CST               |                        |                       | 0  | 0       | 4        | 0     |                   | Wind, Hail                  |
|  |      |                       |                        |                       | Wind gusts of 65 m.p.h. destroyed a church building which was under construction at about the same time as the account above. A construction trailer was overturned and trees and power lines were downed. Hail 3/4 inch size was also reported.   |         |          |       |                   |                             |
| 35 OREGON NO REPORT RECEIVED                         |      |                       |                        |                       |  |         |          |       |                   |                             |
| 36 PENNSYLVANIA, Eastern                             |      |                       |                        |                       |  |         |          |       |                   |                             |
| York and Lancaster Counties                          | 04   | 1030 to 1200 EST      |                        |                       | 0  | 2       | 5        | 3     |                   | Wind, Heavy Rain            |
|  |      |                       |                        |                       | Thunderstorms moving across York and Lancaster Counties caused considerable wind damage and some drainage flooding. In Lancaster County heavy rain caused flooding of basements and the collapse of a basement wall. Some of the heavier rainfall recorded was 2.75 inches at East Petersburg, 1.50 inches at Lancaster and 1.10 inches at Witmer. Wind gusts at Lancaster reached 48 MPH. Wind gusts flattened cornfields and knocked over a tent at a camping lodge. Lightning struck a number of homes, but damage and fires were all minor. Most of the damage was in the Neffsville-East Petersburg-Lancaster-Intercourse area. About 10,000 customers lost power for a time. In Fawn Grove, York County, strong downburst winds, estimated at over 100 MPH did considerable damage. Two mobile homes at two different locations were blown over and demolished with  |         |          |       |                   |                             |
| <b>PENNSYLVANIA, Eastern</b>                         |      |                       |                        |                       |  |         |          |       |                   |                             |
| Watsonstown, Northumberland County                   |      | 1730 to 1800 EST      |                        |                       | 0  | 0       | 3        | 0     |                   | Wind                        |
|  |      |                       |                        |                       | one smashing an automobile. One barn was destroyed with debris blowing into a second barn and damaging it. About half of the roof was blown off one house and three others sustained roof damage either directly from the wind or by flying tree limbs. The storm hit Fawn Grove about 1 PM EDT. Injuries were in the mobile homes.  |         |          |       |                   |                             |
| Montgomery, Bucks and Philadelphia Counties          |      | 1200 to 2000 EST      |                        |                       | 0  | 0       | 4        | 0     |                   | Wind, Heavy Rain, Lightning |
|  |      |                       |                        |                       | Thunderstorms moved across Eastern Montgomery County, Southern Bucks County and Northeast Philadelphia around 1 PM EDT and again around 6 PM EDT and around 9:30 PM EDT. The wind gusts brought down quite a few trees and tree limbs. Lightning hit a few buildings causing minor damage and a few minor fires. Lightning set fire to utility poles and knocked out the transformer at a shopping mall, which cut off power for an extended period. The lightning, wind gusts, falling trees and tree limbs resulted in power outages to 15,000 customers. Heavy downpours caused drainage flooding with basements and roadways flooded. Quite a few automobiles were stalled on flooded roadways. There also was some minor wind damage and flooding in Northampton County.  |         |          |       |                   |                             |
| Eastern Pennsylvania                                 | 21   | 1600 to 1900 EST      |                        |                       | 0  | 7+      | 6        | 0     |                   | Wind, Lightning             |
|  |      |                       |                        |                       | Thunderstorms moving across Eastern Pennsylvania caused damage in many locations. The extreme north portion being the one portion not reporting any significant damage. Over the remainder of the area, many trees were damaged, uprooted, broken off or had limbs off. Trees fell on roads, houses, other buildings, automobiles and camping trailers. One injury was in a camper hit by a falling tree and two others in automobiles hit by falling trees. Wind gusts also caused considerable damage with some of it being: roofs off houses, barns and a mobile home; porch blown away, garage moved, old barn destroyed, turkey barn blown over, and recreational vehicles damaged or destroyed. Hospitals in the Chambersburg area reported many minor injuries mostly to people blown over by the wind gusts. Some high wind gusts reported were: 90 MPH at Martinsburg (Altoona Airport), 100 MPH plus at Chambersburg Airport, instrument stuck at maximum reading of 100 MPH at Electric Company in NW York. Lightning strikes injured four people in the Williamsport area. Two people were injured in each of two separate locations with one injury serious in each case. Lightning caused damage in a number of locations with a few minor fires and one barn destroyed by a lightning fire. Power outages were suffered by 20 to 25 thousand customers. The greatest damage was in the Sunbury-Milton area and in the area from Blair County to Huntingdon County to the Chambersburg-Shippensburg area to Gettysburg and to York County. The storms hit Williamsport around 5 PM EDT, Sunbury and Chambersburg 6:15 to 6:30 PM EDT and Shippensburg, Gettysburg and York 7 to 7:30 PM EDT. |         |          |       |                   |                             |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE  | DATE | TIME - LOCAL STANDARD           | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM                   |
|--|------|---------------------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------------------------|
|  |      |                                 |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                                      |
| <b>36 PENNSYLVANIA, Western</b>  |      |                                 |                        |                       |                |         |                  |       |                                      |
| Beaver County  | 04   | 1825EST                         | ?                      | ?                     | 0              | 1       | 5                |       | Tornado(F1)                          |
| A tornado touched down near Midland, tearing the roof off one building and injuring a woman. There were also uprooted trees and broken roofs. Damage in the area was estimated at \$100,000.   |      |                                 |                        |                       |                |         |                  |       |                                      |
| Erie County  | 19   | 1340EST                         |                        |                       | 0              | 0       |                  |       | Funnel Cloud                         |
| A photographer filmed a funnel cloud south of Erie for a television station, and followed it for more than a mile.   |      |                                 |                        |                       |                |         |                  |       |                                      |
| Lawrence County  | 19   | 1530EST                         | ?                      | ?                     | 0              | 0       | 4                |       | Tornado(F1)                          |
| An eyewitness saw a tornado 10 miles southwest of New Castle down some trees and damage some cabins.   |      |                                 |                        |                       |                |         |                  |       |                                      |
| Beaver County  | 19   | 1700EST                         | ?                      | ?                     | 0              | 0       | 4                |       | Tornado(F1)                          |
| A tornado touched down near Beaver Falls damaging several homes and topping some trees.  |      |                                 |                        |                       |                |         |                  |       |                                      |
| Armstrong County   | 20   | 1415EST                         | 0.2                    | ?                     | 0              | 0       | 5                |       | Tornado(F1)                          |
| A tornado hit Rural Valley, 10 miles east of Kittanning. It destroyed a lumber company building, two single family homes, and a tavern. There was also varying forms of damage done to several other homes. Damage was estimated at \$400,000.   |      |                                 |                        |                       |                |         |                  |       |                                      |
| Erie County  | 21   | 1508EST                         | ?                      | ?                     | 0              | 0       | 5                |       | Tornado(F1)                          |
| A tornado damaged or destroyed several trailers and boats at N. Springfield, southwest of Erie along the lakeshore. Many large trees were knocked down.  |      |                                 |                        |                       |                |         |                  |       |                                      |
| Blair, Cambria, and Indiana Counties   | 21   | late aftn                       |                        |                       | 0              | 0       | 6                |       | Strong Winds                         |
| Thunderstorms moving across the three counties produced winds as high as 90 mph. At the Altoona-Blair County Airport, 90 mph winds were recorded, and at the Johnstown Airport, 65 knot winds were recorded. These winds knocked a concrete block building on a farm near Ebensburg off its foundation. A private airplane was totalled, a silo destroyed, and a barn severely damaged. Otherwise, several homes and buildings were damaged, trees knocked over, and numerous power outages. Damage was estimated at \$1 million.  |      |                                 |                        |                       |                |         |                  |       |                                      |
| Mifflin County   | 21   | 1745EST                         | .75                    | 30                    | 0              | 0       | 5                |       | Tornado(F1)                          |
| A tornado touched down one mile west of Granville on Route 103. Several mobile homes were damaged, trees, downed, and a mobile home and nearby concrete block garage severely damaged.   |      |                                 |                        |                       |                |         |                  |       |                                      |
| <b>37 RHODE ISLAND</b>   |      |                                 |                        |                       |                |         |                  |       |                                      |
| Northern Portion   | 21   | Late Afternoon<br>Early Evening |                        |                       | 0              | 0       | 0                | 0     | Lightning, Heavy Rain, Gusty Winds   |
| Briefly heavy thunderstorms caused a few power interruptions in the area and the briefly heavy rains resulted in some minor street flooding.   |      |                                 |                        |                       |                |         |                  |       |                                      |
| Statewide  | 22   | All Day                         |                        |                       | 0              | 0       | 4                | 0     | Strong & Gusty NW Winds              |
| Unusually strong and gusty northwesterly winds for July up to 50 MPH overturned a construction trailer in Providence. A large tree fell and demolished a car in Olneyville section of Providence. A large tent was blown down and damaged in West Warwick. Four cars were damaged when a large tree crashed down on a parking lot in Coventry. In Barrington an 18-wheel dump truck was tipped over by the wind breaking a large piston.   |      |                                 |                        |                       |                |         |                  |       |                                      |
| <b>38 SOUTH CAROLINA</b>   |      |                                 |                        |                       |                |         |                  |       |                                      |
| Anderson, Anderson County  | 2    | 1831 EST                        |                        |                       | 0              | 0       | 5                | 0     | High winds, thunderstorm             |
| High winds during thunderstorm caused considerable damage in the vicinity of the airport. Seven aircraft damaged, one totally. Hanger damaged also numerous power outage. Gust to 60 mph.  |      |                                 |                        |                       |                |         |                  |       |                                      |
| Columbia, Richland County  | 3    | 1300 EST                        |                        |                       | 0              | 2       | 3                | 0     | Lightning                            |
| Two men sitting under a tree were injured when they were struck by lightning. Two fires were caused by lightning.  |      |                                 |                        |                       |                |         |                  |       |                                      |
| Orangeburg, Orangeburg County  | 3    | 1830 EST                        | 1/2                    | 30                    | 0              | 0       | 4                | 0     | Tornado (F1)                         |
| A small tornado accompanying a severe thunderstorm struck downtown Orangeburg. A gift shop, shoe store, and restaurant were heavily damaged, a truck was lifted off the road.  |      |                                 |                        |                       |                |         |                  |       |                                      |
| <b>— SOUTH CAROLINA</b>  |      |                                 |                        |                       |                |         |                  |       |                                      |
| Hilton Head, Beaufort County   | 5    | 2000 EST                        |                        |                       | 0              | 0       | 4                | 0     | High winds thunderstorm              |
| A severe thunderstorm developed ahead of a frontal passage causing considerable wind damage on Hilton Head Island. Twenty boats along the beach were destroyed or heavily damaged.   |      |                                 |                        |                       |                |         |                  |       |                                      |
| Belton and Williamston, Anderson County  | 17   | 2130 EST                        |                        |                       | 0              | 0       | 4                | 0     | Winds, Lightning, hail               |
| High winds & hail the size of marbles, caused considerable tree damage. A large greenhouse was destroyed in Belton area, a barn blown down near Williamston.   |      |                                 |                        |                       |                |         |                  |       |                                      |
| Abbeville, Abbeville County  | 17   | 2200 EST                        |                        |                       | 0              | 0       | 5                | 0     | High winds, thunderstorm             |
| High winds during a thunderstorm heavily damaged a large armory.   |      |                                 |                        |                       |                |         |                  |       |                                      |
| North Augusta, Aiken New Ellenton Areas, Aiken County  | 17   | Evening                         |                        |                       | 0              | 0       | 5                | 0     | High winds, lightning                |
| High winds during a thunderstorm blew down traffic signs, a number of trees, damaging several residence. Lightning burned a barn, home, and church in the vicinity of Aiken.   |      |                                 |                        |                       |                |         |                  |       |                                      |
| Taylor's area, Greenville County   | 20   | 1515 EST                        |                        |                       | 0              | 0       | 4                | 0     | High winds, thunderstorm             |
| High winds during a thunderstorm caused considerable damage to trees, and plate glass windows.   |      |                                 |                        |                       |                |         |                  |       |                                      |
| Orangeburg, Orangeburg County  | 20   | 1800 EST                        |                        |                       | 0              | 1       | 5                | 0     | Lightning                            |
| Lightning hit person getting into a car but not seriously injured. Large church burned by lightning.   |      |                                 |                        |                       |                |         |                  |       |                                      |
| Greenville, Greenville County  | 21   | 1515 EST                        |                        |                       | 0              | 0       | 3                | 0     | Thunderstorm, winds                  |
| Winds during a thunderstorm downed trees and power lines in Paris mountain area of Greenville.   |      |                                 |                        |                       |                |         |                  |       |                                      |
| Sumter, Sumter County  | 21   | 1530 EST                        |                        |                       | 0              | 0       | 3                | 0     | High winds, thunderstorm, lightning  |
| Thunderstorm disrupted power to more than 7000 residences. Winds blew down trees and damaged several residences.   |      |                                 |                        |                       |                |         |                  |       |                                      |
| Deals Landing on Lake Wateree, Kershaw County  | 21   | 1930 EST                        |                        |                       | 0              | 0       | 4                | 0     | High winds, thunderstorm             |
| Thunderstorm winds knocked out power, downed a number of trees and destroyed two mobile homes.   |      |                                 |                        |                       |                |         |                  |       |                                      |
| Northeastern, SC   | 22   | p.m.                            |                        |                       | 0              | 7       | 45               | 3     | Wind, hail, thunderstorm             |
| A cluster of severe thunderstorms raked the northeastern part of the state. Areas with most extensive damage were:<br><u>Twelve mile NW of Sumter-1540 EST.</u><br><u>Woodrow &amp; Springhill-3</u> mobile homes destroyed and church damaged. Many trees down. Five other mobile homes damaged. (Sumter County)<br><u>Camden-1600EST.</u> Large trees blown down (Kershaw County)<br><u>Effingham-1630 EST.</u> Hail reported at 1445 EST one inch in diameter. (Florence County)<br><u>Florence-1600 EST.</u> Winds & hail size of marbles caused considerable minor damage (Florence County)<br><u>Dazell-1600 EST.</u> A 102 ft. grain elevator blew over, fire station damaged, several buildings and mobile homes damaged (Sumter County)<br><u>South Portion of Lancaster-1425 EST.</u> High winds during a thunderstorm blew out the front window of a grocery store injuring six persons Also broke glass (windows) of a restaurant injuring one person. (Florence County) |      |                                 |                        |                       |                |         |                  |       |                                      |
| Two miles N. of Florence, Lancaster County   | 23   | 1830 EST                        | 1                      | 50                    | 0              | 0       | 4                | 0     | Tornado (F1)                         |
| Small tornado during a heavy thunderstorm blew top off of silo, cut top out of trees, damaged roof of motel and caused other minor damage. "Exploded" windows in a parked car. The accompanying thunderstorm caused damage in nearby Darlington. Also lightning burned two homes in Florence.  |      |                                 |                        |                       |                |         |                  |       |                                      |
| Central & Eastern South Carolina   | 24   |                                 |                        |                       | 0              | 1       | 4                | 3     | Thunderstorm, winds, hail, lightning |
| <u>Williamsburg County-1535 EST.</u> Five miles SE of Kingstree 1535 EST. Tobacco barn damaged, tree limbs stream several hundred feet. Golf ball size hail.<br><u>Myrtle Beach-2030 EST.</u> Lightning injured boy on camping trip. (Horry County)<br><u>Newberry County-1900 EST.</u> Mobile home at I-26 & Germany Road damaged by wind.  |      |                                 |                        |                       |                |         |                  |       |                                      |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE                                     | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM   |
|---|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--|
|   |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |  |
| <b>— SOUTH CAROLINA</b>                   |      |                       |                        |                       |                |         |                  |       |  |
| 2 miles north of Asheton, Colleton County | 24   | 1635 EST              | 0.2                    | 50                    | 0              | 0       | 3                | 1     | Tornado (F1)   |
|   |      |                       |                        |                       |                |         |                  |       | Small tornado lifted barn off foundation, cut tops out of trees, blew roof off barn and shed and made path through woods. Roads blocked by fallen trees.   |
| Statewide                                 | 25   | p.m.                  |                        |                       | 1              | 3       | 5                | 3     | Thunderstorm, southeastward across the state. Location of the rain most damaging storms were as follows:<br>Seneca-1900 EST. Wind blew roof off store, damaged 3 mobile homes & several houses, blew out plate glass windows. (Oconee County)<br>Charleston-1700 EST. Winds gusts to 80 Kts. Power disrupted to 25,000 homes. Lightning hit several homes in Charleston area. (Charleston County)<br>State Park near Westminster-1400 EST. Lightning struck tree and killed man, injured 2 women who had sought refuge in a nearby picnic shelter. (Oconee County)<br>Spartanburg-1535 EST. Thunderstorm rains flooded I-85 causing several wrecks. A theater was heavily damaged by winds, several trees blown down. (Spartanburg County)<br>St. George-1800 EST. Strong winds blew down trees, snapped transmission lines, one person was injured by fallen lines. (Dorchester County)<br>Greenwood-p.m. Lightning damaged power lines in Greenwood & vicinity (Greenwood County)<br>Shell Point-1940 EST. Lightning struck large homes which burned. (Beaufort County)<br>Hartsville-1600 EST. Considerable wind damage, mostly minor, was reported in Hartsville. (Darlington County)<br>Beaufort-1730 EST. Thunderstorm winds sank boat in river; lightning struck two homes and caused numerous power outage. (Beaufort County)  |
| Statewide                                 |      |                       |                        |                       |                |         |                  |       | Unusually hot dry weather, set high record at many locations during the month, caused heavy losses to agriculture. Eleven deaths were heat related. Undetermined number of people injured.   |
| <b>39 SOUTH DAKOTA</b>                    |      |                       |                        |                       |                |         |                  |       |  |
| Turner County                             | 01   | 0000CST               | short narrow           | 0                     | 0              | 0       | 3                | 0     | Tornado (F0)   |
|   |      |                       |                        |                       |                |         |                  |       | Police reported a tornado southwest of Parker. It took out six utility poles as it moved east.   |
| Southeast Corner                          | 01   | Early a.m.            | -                      | -                     | 0              | 0       | 5                | 3     | High Winds, Hail   |
|   |      |                       |                        |                       |                |         |                  |       | Thunderstorms, accompanied by strong winds, blustered through the southeastern counties late in the evening of June 30th and into the early morning, producing damage to buildings, trees and crops. Gusts of 50-80 mph broke numerous tree branches and blew out many windows. In Salem (McCook County), a 145' x 50' warehouse at a precasting firm was distributed over a three block area. There was wind damage to two other buildings. Winds twisted up a catwalk at a grain complex in Salem, severely damaging numerous grain bins. A roof was torn off a store, damaging equipment inside. A cow was killed by flying metal near Salem. In Mitchell (Davison County), a TV station was knocked off the air for eleven hours, three radio stations were off the air briefly and a metal shed was lifted onto nearby buildings, puncturing two roofs, all due to high winds. Numerous utility poles were uprooted, creating scattered power outages that continued into early morning on July 2 in some areas. Rural areas received heavy damage to grain bins, farm machinery, buildings and cropland, which was flattened for a few days in many areas. Numerous homes were damaged by falling branches and several garages were knocked askew. One garage was torn from a home in Alexandria (Hanson County). In Moody County, a machine shed was blown apart at Prairie Junction and a semi tractor trailer was toppled over just east of Colman. In Sioux Falls (Minnehaha County), hail up to one and three-quarters inches in diameter fell, breaking several windows. |
| Sully & Potter Counties                   | 02   | 1300-1600CST          | -                      | -                     | 0              | 0       | 3                | ?     | Hail, Rain   |
|   |      |                       |                        |                       |                |         |                  |       | Hail of unknown diameter damaged 50-90 percent of crops in some areas and ruined the rafters on a building under construction in Agar (Sully County). Heavy rains accompanied the hail, resulting in flooded roads in Potter County.   |
| Clark Country                             | 02   | 1845CST               | -                      | -                     | 0              | 0       | 3                | 0     | Wind, Rain   |
|   |      |                       |                        |                       |                |         |                  |       | One-half inch of rain fell in fifteen minutes and was accompanied by strong winds. The wind broke off approximately fifty trees, toppled two chimneys and pushed in windows and garage doors. A building in Raymond was also damaged and scattered power outages occurred for up to three hours.   |
| <b>— SOUTH DAKOTA</b>                     |      |                       |                        |                       |                |         |                  |       |  |
| Bennett County                            | 03   | 1130CST               | -                      | -                     | 0              | 0       | 3                | 0     | Wind, Rain   |
|   |      |                       |                        |                       |                |         |                  |       | Thunderstorm winds sheared off a roof and antenna on a home just west of Martin, carrying it 100 feet. As a result, furniture and appliances inside incurred water damage.   |
| Faulk & Potter Counties                   | 03   | 1200CST               | -                      | -                     | 0              | 0       | 0                | 0     | Funnel Clouds  |
|   |      |                       |                        |                       |                |         |                  |       | At least three funnel clouds were sighted from Gettysburg (Potter County) to northwest of Faulkton (Faulk County).   |
| Butte County                              | 14   | 2310MST               | -                      | -                     | 0              | 0       | 2                | 0     | Lightning  |
|   |      |                       |                        |                       |                |         |                  |       | Lightning struck a utility pole in Nisland, creating a power outage and burning forty square feet of grass.  |
| Brown County                              | 15   | 1830CST               | -                      | -                     | 0              | 0       | ?                | ?     | Hail   |
|   |      |                       |                        |                       |                |         |                  |       | Near Aberdeen, hail, one and three-quarters inches in diameter fell, damaging crops.   |
| Brown County                              | 16   | 0600CST               | -                      | -                     | 0              | 0       | ?                | ?     | Hail   |
|   |      |                       |                        |                       |                |         |                  |       | Hail, one and three-quarters inches in diameter, fell in Putney. Croplands were damaged.   |
| Fall River County                         | 16   | 1630MST               | -                      | -                     | 0              | 0       | 2                | 0     | Lightning  |
|   |      |                       |                        |                       |                |         |                  |       | Lightning struck a power line and pole in Hot Springs, damaging the pole.  |
| Fall River County                         | 16   | 1800-2230MST          | -                      | -                     | 0              | 0       | 3                | ?     | Lightning, Hail Rain   |
|   |      |                       |                        |                       |                |         |                  |       | Hail up to two and one-half inches in diameter fell, denting cars, breaking windows and damaging roofs and cropland. Lightning burned an acre of forestland east of Highway 71. Due to heavy rains, Highway 71, south of Hot Springs, was covered with water in some areas.  |
| Fall River County                         | 17   | 0315MST               | -                      | -                     | 0              | 0       | 2                | 0     | Lightning  |
|   |      |                       |                        |                       |                |         |                  |       | A microwave in a home in Hot Springs was struck by lightning, filling the home with smoke.   |
| Meade County                              | 17   | 1735MST               | -                      | -                     | 0              | 0       | 3                | 0     | Wind   |
|   |      |                       |                        |                       |                |         |                  |       | At Golden Arrow Camp, north of Rapid City, strong winds damaged a few buildings including a garage and ranch.  |
| Corson, Edmunds and McPherson Counties    | 17   | Evening               | -                      | -                     | 0              | 0       | ?                | ?     | Hail, Lightning  |
|   |      |                       |                        |                       |                |         |                  |       | Hail of unknown diameter hit the Morrilstown Area (Corson County) hard. Siding and cars were dented, windows broken and cropland damaged. Lightning struck a hay bale outside of Morrilstown, burning it completely. Hail fell in a path three to four miles wide and twenty-five miles long from Greenway to Hosmer (McPherson and Edmunds Counties), damaging much cropland.   |
| Tripp County                              | 17   | 2300CST               | -                      | -                     | 0              | 0       | 3                | 0     | Wind   |
|   |      |                       |                        |                       |                |         |                  |       | Winds destroyed a quonset southwest of Winner and killed a calf. A propane tank was lifted and carried to a nearby fence.  |
| Todd County                               | 17   | 2300MST               | -                      | -                     | 0              | 0       | 3                | 0     | Wind, Rain   |
|   |      |                       |                        |                       |                |         |                  |       | Lakeview reported heavy rain that washed out roads and fences and damaged cropland. Strong winds bared insulation in one trailer and resulted in rain damage to the interior. Irrigation systems were twisted up by winds and some grain bins were moved from their foundation.  |
| Dewey County                              | 17   | 2330-0000CST          | -                      | -                     | 0              | 0       | 4                | 0     | Wind   |
|   |      |                       |                        |                       |                |         |                  |       | Winds damaged buildings and trees northwest of Isabel. A mobile home was picked up and smashed into a tree. Large trees were broken off and two grain bins were scattered up to three-fourths of a mile away.  |
| Lyman County                              | 18   | 0000-0110CST          | -                      | -                     | 0              | 0       | 3                | 0     | Wind   |
|   |      |                       |                        |                       |                |         |                  |       | A motel sign in Presho was bent by strong winds of up to 80 mph. Trees were damaged, a door was blown off a building and scattered power outages occurred. North of Reliance, a large metal building was blown into power lines and a roof was partially damaged.  |
| Clay County                               | 18   | Early a.m.            | -                      | -                     | 0              | 0       | 3                | 0     | Wind   |
|   |      |                       |                        |                       |                |         |                  |       | Winds blew out three sides and the roof of a porch, carrying them over a trailer home.   |
| Davison County                            | 18   | 0055CST               | -                      | -                     | 0              | 0       | 0                | 0     | Wind   |
|   |      |                       |                        |                       |                |         |                  |       | Wind gusts up to 80 mph downed trees in Mitchell and created scattered power outages.  |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED <sup>1</sup> DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|-------------------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY                      | CROPS |                    |

**— SOUTH DAKOTA**

|                                  |  |              |     |     |   |   |   |   |                 |
|----------------------------------|--|--------------|-----|-----|---|---|---|---|-----------------|
| Hutchinson & Bon Homme Counties  | 18   | 0150CST      | -   | -   | 0 | 0 | 0 | 0 | Rain            |
|                                  | Heavy rains of over three inches caused Highway 37 from Tripp (Bon Homme County) south to become covered with water.   |              |     |     |   |   |   |   |                 |
| Codington County                 | 18   | 0230-0330CST | 1/2 | 100 | 0 | 0 | 6 | 0 | Tornado (F3)    |
|                                  | A tornado ripped through a two-block area along Lake Kampeska, three miles west of Watertown, damaging twelve homes, two severely. Several roofs were ripped off, siding was damaged, and windows were shattered in several homes. Numerous branches and trees were sheared off, damaging cars and buildings. One garage was shoved into a slant position, another was demolished, and several detached garages were destroyed. Boats were torn from their moorings and thrown into docks and homes. Several vehicles were picked up and buried. Highway 20, three-quarters of a mile west of Watertown, was closed for a short time, due to debris. |              |     |     |   |   |   |   |                 |
| Brown County                     | 18   | 0000-0600CST | -   | -   | 0 | 0 | 3 | 0 | Rain            |
|                                  | Rains, up to three inches overnight, coupled with five to six inches from the previous weekend, caused street and basement flooding in Aberdeen. Basements were flooded from a few inches to the tops of washers. One basement caved in, necessitating the evacuation of the home's occupants. Cars were stalled in streets that remained flooded until mid-morning. The federal building was closed due to a sewer backup.  |              |     |     |   |   |   |   |                 |
| Meade County                     | 18   | 1535MST      | -   | -   | 0 | 0 | 3 | 0 | Wind            |
|                                  | Winds up to 60 mph, just north of Rapid City at Golden Arrow Camp, downed trees and damaged several outbuildings.  |              |     |     |   |   |   |   |                 |
| Fall River County                | 18   | 1530-1540MST | -   | -   | 0 | 0 | ? | ? | Hail            |
|                                  | Hail, up to one and three-quarters inches in diameter, fell, damaging roofs, cars, windows and crops.  |              |     |     |   |   |   |   |                 |
| Charles Mix and Jerauld Counties | 19   | Afternoon    | -   | -   | 0 | 0 | 5 | 0 | Heat            |
|                                  | Heat killed nearly 100 cattle at Academy (Charles Mix County) and 93 cattle in Messington Springs (Jerauld County), with scattered small losses nearby. Temperatures were between 100 and 105 degrees with little wind.  |              |     |     |   |   |   |   |                 |
| Sanborn County                   | 20   | Afternoon    | -   | -   | 0 | 0 | 4 | 0 | Heat            |
|                                  | Heat killed fourteen cattle near Letcher.  |              |     |     |   |   |   |   |                 |
| Custer County                    | 20   | 1500-1545MST | -   | -   | 0 | 0 | 0 | 0 | Wind            |
|                                  | Winds were reported at 85-100 mph at Mt. Coolidge and gusts up to 80 mph were clocked at Wind Cave National Park and Hermosa.  |              |     |     |   |   |   |   |                 |
| Butte County                     | 20   | 1535MST      | -   | -   | 0 | 0 | 0 | 3 | Lightning       |
|                                  | Lightning burned twenty acres of land, sixteen miles north of Belle Fourche and another fifteen acres of prairieland north of Fruitdale.   |              |     |     |   |   |   |   |                 |
| Pennington County                | 20   | 1550-1700MST | -   | -   | 0 | 0 | 2 | 3 | Lightning       |
|                                  | Lightning caused at least twelve spot fires near the Black Hills. Twenty acres of wheat burned eight miles north of New Underwood and five acres burned between Keystone and Rushmore Cave. A barn caught on fire in Rapid Valley, causing only minor damage.  |              |     |     |   |   |   |   |                 |
| Butte & Meade Counties           | 20   | 1750MST      | -   | -   | 0 | 0 | 0 | 0 | Wind, Lightning |
|                                  | Wind and lightning knocked down power lines southwest of Vale, causing outages until 2215 MST in some areas.   |              |     |     |   |   |   |   |                 |
| Yankton County                   | 22   | 1815CST      | -   | -   | 0 | 0 | 0 | 0 | Wind            |
|                                  | Gusts up to 70 mph were reported at Gavin's Point Dam and Lewis and Clark Lake.  |              |     |     |   |   |   |   |                 |
| Yankton County                   | 22   | 1840CST      | -   | -   | 0 | 0 | 0 | 0 | Funnel Clouds   |
|                                  | Two funnel clouds were reported by a pilot, one ten miles west and the other twelve miles east of Yankton.   |              |     |     |   |   |   |   |                 |
| Clay and Yankton Counties        | 22   | 1900-2015CST | -   | -   | 0 | 0 | 0 | 0 | Wind, Rain      |
|                                  | Gusts of 70-80 mph were reported in Yankton and Meckling (Clay County), downing three limbs. A motel sign in Vermillion (Clay County) was torn from its base into the street. Rain downpours in Vermillion and Yankton caused street flooding.   |              |     |     |   |   |   |   |                 |
| Clay County                      | 22   | 1920CST      | -   | -   | 0 | 0 | 0 | 0 | Funnel Cloud    |
|                                  | A funnel was reported west of Vermillion.  |              |     |     |   |   |   |   |                 |

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED <sup>1</sup> DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|-------------------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY                      | CROPS |                    |

**— SOUTH DAKOTA**

|                   |  |               |              |   |   |   |   |   |              |
|-------------------|--|---------------|--------------|---|---|---|---|---|--------------|
| Union County      | 22   | 1925CST       | short narrow | 0 | 0 | 0 | 0 | 0 | Tornado (F0) |
|                   | A tornado was reported three to four miles north of Elk Point, moving east.  |               |              |   |   |   |   |   |              |
| Union County      | 22   | 1925CST       | short narrow | 0 | 0 | 2 | 0 | 0 | Tornado (F0) |
|                   | A tornado was reported two miles south of Alcester and caused minor damage to buildings and uprooted trees.  |               |              |   |   |   |   |   |              |
| Union County      | 22   | 1928CST       | short narrow | 0 | 0 | 0 | 0 | 0 | Tornado (F0) |
|                   | A tornado was spotted north of the Akron exit on Interstate 29, moving east.   |               |              |   |   |   |   |   |              |
| Union County      | 22   | 1928CST       | short narrow | 0 | 0 | 3 | 0 | 0 | Tornado (F1) |
|                   | A tornado was spotted ten miles north of Elk Point, moving east. Farm buildings were damaged and trees uprooted northeast of Richland.   |               |              |   |   |   |   |   |              |
| McPherson County  | 22   | 2300CST       | -            | - | 0 | 0 | 2 | 0 | Lightning    |
|                   | Lightning destroyed a twelve ton haystack south of Longlake.   |               |              |   |   |   |   |   |              |
| Pennington County | 26   | 1300-1350MST  | -            | - | 0 | 0 | ? | ? | Rain, Hail   |
|                   | A thunderstorm rolled through Rapid City, dropping the temperature 28 degrees in thirty minutes. In west Rapid City, 1.2 inches of rain fell in 32 minutes, along with four inches of hail on the ground, the largest being two inches in diameter. The hail stripped trees and ruined two roofs. South of Rapid City on Highway 16, six inches of half inch diameter hail was on the surface. |               |              |   |   |   |   |   |              |
| Douglas County    | 26   | 1430CST       | -            | - | 0 | 0 | 4 | 3 | Wind         |
|                   | Strong winds flipped over a mobile home that was in the process of being moved. Garage doors were blown off, severing electricity to a grain elevator for four and one-half hours and crops received some damage.  |               |              |   |   |   |   |   |              |
| Walworth County   | 26   | Evening       | -            | - | 0 | 0 | 3 | 0 | Lightning    |
|                   | A trailer home in Java was struck by lightning, with some damage.  |               |              |   |   |   |   |   |              |
| McPherson County  | 28   | Early Morning | -            | - | 0 | 0 | 4 | 4 | Wind, Hail   |
|                   | Wind and hail damaged several pole barns east of Eureka. Hail damaged much cropland (some up to 100% loss) six miles north of Eureka and northeast for 25 miles.   |               |              |   |   |   |   |   |              |
| Hyde County       | 28   | Morning       | -            | - | 0 | 0 | 3 | 0 | Lightning    |
|                   | Lightning struck a TV tower on a home in Highmore and traveled down the phone wire, blowing hole through the plaster and catching the drapery on fire. A TV and stereo were also ruined.   |               |              |   |   |   |   |   |              |
| Hand County       | 28   | 0830-1000CST  | -            | - | 0 | 0 | 0 | 3 | Lightning    |
|                   | Numerous bales were struck by lightning and caught on fire in Miller, destroying a large number of bales.  |               |              |   |   |   |   |   |              |
| Douglas County    | 28   | mid Afternoon | -            | - | 0 | 0 | 4 | 0 | Wind         |
|                   | Strong winds up to 70 mph damaged structures and temporarily flattened crops in Corsica. A 70-foot trailer was flipped over and destroyed. A barn collapsed and several silo caps were blown off. Several branches were downed and electricity was off for an hour.  |               |              |   |   |   |   |   |              |
| Hutchinson County | 28   | Afternoon     | -            | - | 0 | 0 | 3 | 0 | Wind         |
|                   | Winds destroyed the backstop on a grandstand in Freeman and downed numerous branches.  |               |              |   |   |   |   |   |              |
| Custer County     | 29   | 1320MST       | -            | - | 0 | 0 | ? | ? | Hail         |
|                   | Hail, one inch in diameter, fell in Trout Haven, south of Wind Cave National Park.   |               |              |   |   |   |   |   |              |
| Pennington County | 29   | 1515-1610MST  | -            | - | 0 | 0 | ? | ? | Hail         |
|                   | Hail up to two and one-half inches in diameter fell from southeast of Rapid City to Hill City and Keystone.  |               |              |   |   |   |   |   |              |
| Bennett County    | 29   | 1800-2000MST  | -            | - | 0 | 0 | ? | ? | Hail, Rain   |
|                   | Heavy rains flooded small streams and roads, washing out some bridges and county roads near Martin. Hail of unknown diameter damaged cropland, with losses varying from 1 to 100%. The hail path of greatest loss was northeast of Martin in a southeasterly line.   |               |              |   |   |   |   |   |              |
| Campbell County   | 29   | Evening       | -            | - | 0 | 0 | 0 | 2 | Lightning    |
|                   | Lightning struck hay bales five miles south and one-half mile west of Artas, burning six bales. Six bales also burned four miles southwest of Mound City. This fire also was a result of lightning.  |               |              |   |   |   |   |   |              |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE  | DATE  | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|--|-------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|  |       |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |
| <b>— SOUTH DAKOTA</b>  |       |                       |                        |                       |                |         |                  |       |                    |
| Potter County  | 29    | 2325-0000CST          | -                      | -                     | 0              | 0       | 3                | 3     | Wind, Lightning    |
| Winds up to 70 mph were reported around Gettysburg, downing numerous branches. Electricity was knocked out for just over an hour from a lightning strike and high winds damaged the roof and side of a trailer in Gettysburg. Strong winds scattered a twenty-ton haystack and tore through a sunflower field in a path one mile long and five yards wide near Hoven.  |       |                       |                        |                       |                |         |                  |       |                    |
| Edmunds County   | 29    | 2345CST               | -                      | -                     | 0              | 0       | 4                | 0     | Wind               |
| A pole barn in Bowdle was destroyed by high winds that lasted only a few minutes.  |       |                       |                        |                       |                |         |                  |       |                    |
| Brown County   | 30    | 0000CST               | -                      | -                     | 0              | 0       | 0                | 0     | Wind               |
| Winds up to 60 mph were reported fourteen miles northwest of Warner.   |       |                       |                        |                       |                |         |                  |       |                    |
| <b>40 TENNESSEE</b>  |       |                       |                        |                       |                |         |                  |       |                    |
| Bethpage, Sumner County  | 1     | 0530CST               |                        |                       |                |         | ?                | ?     | Flash flood, wind  |
| A thunderstorm brought heavy rains totaling 3.5 inches in about one hour which sent Bledsoe Creek out of its banks. The heavy rains forced the closing of several roads including part of Highway 31E. Flooding lasted about two hours. Marble-size hail also fell. Winds with the thunderstorm toppled trees; however, there was little direct property damage. Considerable damage was done to crops in the southeast section of the county.   |       |                       |                        |                       |                |         |                  |       |                    |
| Chattanooga, Hamilton County   | 1     | 1300CST               |                        |                       |                |         | ?                | ?     | Wind, hail         |
| Numerous reports of small hail (pea-size) were made from the East Ridge section of Chattanooga. There were also several reports of trees downed by wind. There were no reports of significant structural damage.   |       |                       |                        |                       |                |         |                  |       |                    |
| Bethpage and Castalian Springs, Sumner County  | 1     | 1430CST               |                        |                       |                |         | ?                | ?     | Flash flooding     |
| Eight to ten families were forced from their homes after 2.5 inches of rain fell. The rain came on top of rain earlier in the morning.   |       |                       |                        |                       |                |         |                  |       |                    |
| 8 Miles southeast Spencer, Van Buren County  | 3     | 1530CST               |                        |                       | 1              | 8       |                  |       | Lightning          |
| A group of people visiting Fall Creek Falls State Park was struck by lightning. One person died almost a week later in a Knoxville hospital. The group was in an area of flat terrain in the Cumberland Plateau overlooking a large gorge. They sought shelter from a thundershower by going under a group of trees. At that point the lightning struck an oak tree beside the group.  |       |                       |                        |                       |                |         |                  |       |                    |
| Chattanooga, Hamilton County   | 16    | 1550CST               |                        |                       |                |         |                  |       | Hail               |
| Three-quarter inch hail was reported on the north side of Chattanooga, north of Chickamauga Lake in the Hickson area.  |       |                       |                        |                       |                |         |                  |       |                    |
| Nashville, Davidson County   | 17    | 1422CST               |                        |                       |                |         |                  |       | Funnel cloud       |
| The public reported a funnel cloud in the southwest part of Nashville.   |       |                       |                        |                       |                |         |                  |       |                    |
| Winchester County  | 17    | 1445CST               |                        |                       |                |         | 4                |       | Lightning          |
| Lightning struck a barn causing a fire which destroyed the building. The barn was being used for storage of hys (800-900 bales) and yellow poplar (1000 board feet).   |       |                       |                        |                       |                |         |                  |       |                    |
| Statewide  | 20-24 |                       |                        |                       | 12             |         |                  |       | Heat               |
| Temperatures from the middle 90's to the lower 100's created heat stress for Tennesseans. About a dozen people died with heat believed the cause or contributing cause. The deaths by counties including date and age: Shelby - 7/22 - 80 year old; 7/24 - 73 year old; Davidson - 7/23 - 52 and 77 year old; 7/24 - 86 year old; Obion - 7/21 - 67 year old; Hamilton - 7/22 - age unknown; 7/23 - 79 and 107 year old; Bradley - 7/23 - 74 year old; and Robertson - 7/23 - age unknown, 7/24 - 83 year old.   |       |                       |                        |                       |                |         |                  |       |                    |
| Kingsport, Sullivan County   | 20    | 1445CST               |                        |                       |                |         | 5                | ?     | High wind, hail    |
| A thunderstorm moving across the eastern side of Kingsport produced high wind and marble-size hail. Major damage occurred in a small area near U.S. 11W. The winds were estimated at 50 to 70 miles an hour. Power lines were downed, cars were damaged by falling trees, and some roof and fence damage was done. Two commercial buildings were damaged; one, a car dealership, sustained significant glass and ceiling damage as well as damage to cars; the second, a Montgomery Ward Store, lost a sidewalk canopy, and a portion of an exterior wall collapsed. Several other businesses reported the loss of plate glass windows. Also topped by the wind were two U-Haul trailers and two tractor trailer rigs. |       |                       |                        |                       |                |         |                  |       |                    |
| Northern Ramblen County  | 20    | 1700CST               |                        |                       |                |         | 4                |       | Lightning          |
| Lightning was believed responsible for causing a fire in an auto garage. The garage was completely destroyed.  |       |                       |                        |                       |                |         |                  |       |                    |
| <b>— TENNESSEE</b>   |       |                       |                        |                       |                |         |                  |       |                    |
| Franklin County  | 20    | 1815CST               |                        |                       |                |         | 5                | ?     | High wind          |
| A violent thunderstorm brought high winds to Franklin County which uprooted trees, disrupted power, and did scattered roof damage to buildings. A junior high school in Cowan was stripped of 36 feet of roofing, and several fences around the school were knocked down. Seven airplanes at the Winchester Municipal Airport were damaged, one completely totaled. Many buildings, especially farm buildings, lost tin roofing.   |       |                       |                        |                       |                |         |                  |       |                    |
| Near Tri-Cities Airport, Sullivan County   | 24    | 1125CST               |                        |                       |                |         | ?                |       | Lightning          |
| A barn east of the Tri-Cities Airport was struck by lightning and destroyed.   |       |                       |                        |                       |                |         |                  |       |                    |
| Tri-City Airport, Sullivan County  | 24    | 1135CST               |                        |                       |                |         | 4                | ?     | High wind          |
| Winds were recorded gusting to 87 miles an hour at the Tri-Cities Airport. A junior home about three-quarters of a mile from the airport was destroyed, and roof and tree damage was reported within about a one mile radius of the airport.   |       |                       |                        |                       |                |         |                  |       |                    |
| Minton Hollow, Carter County   | 24    | 1300CST               |                        |                       |                |         | ?                |       | Lightning          |
| Lightning which came into a house through the television set caused a fire which did extensive damage to the home and the contents.  |       |                       |                        |                       |                |         |                  |       |                    |
| Alcoa, Blount County   | 24    | 1518CST               |                        |                       |                |         |                  |       | High wind          |
| Winds were recorded gusting to 60 miles an hour at the Knoxville Airport with a thunderstorm. No significant wind damage was reported.   |       |                       |                        |                       |                |         |                  |       |                    |
| Turtletown, Polk County  | 24    | 1530CST               |                        |                       |                |         | 4                |       | Wind               |
| Thunderstorm winds ripped much of the roof from a quick stop grocery store. Flying debris also damaged two automobiles.  |       |                       |                        |                       |                |         |                  |       |                    |
| Estill Springs, Franklin County  | 24    | 1625CST               |                        |                       |                |         | ?                | ?     | Hail               |
| Three-quarter inch hail was reported in Estill Springs.  |       |                       |                        |                       |                |         |                  |       |                    |
| Winchester, Franklin County  | 25    | 1500CST               |                        |                       |                |         | 4                | ?     | High wind, hail    |
| High winds downed trees and power lines as it moved southeast across Franklin County. Damage was greatest in southeast Winchester where a large number of trees were downed causing some structural damage to buildings. Marble-size hail was reported with the storm. Some local flooding was also caused by the heavy downpour which came with the thunderstorm.   |       |                       |                        |                       |                |         |                  |       |                    |
| Monteagle, Grundy and Marion County line   | 25    | 1515CST               |                        |                       |                |         | ?                | ?     | Hail, high wind    |
| The Tennessee Highway Patrol reported large hail estimated at golf ball size. The hail reportedly knocked out some car windows. Winds were also reported high causing some power outages and downing trees and limbs.  |       |                       |                        |                       |                |         |                  |       |                    |
| Chattanooga, Hamilton County   | 25    | 1700CST               |                        |                       |                |         | 2                | 5     | ?                  |
| High winds with a thunderstorm disrupted power, broke windows, and downed trees and signs. The thunderstorm also lowered the temperature more than 15 degrees giving some relief from the heat. Power was disrupted to between 3000 and 5000 people. High winds blew out windows in businesses primarily on the west side of town. Windows on the seventh floor of Erlanger Hospital were broken by the wind injuring two elderly patients. A television station in downtown Chattanooga recorded wind gusts to 60 miles an hour. Rainfall estimated at an inch and a half created some urban flooding for a short time.   |       |                       |                        |                       |                |         |                  |       |                    |
| <b>41 TEXAS, Northern — NO REPORT RECEIVED</b>   |       |                       |                        |                       |                |         |                  |       |                    |
| <b>41 TEXAS, Southern</b>  |       |                       |                        |                       |                |         |                  |       |                    |
| Bexar County   | 5     | 1530CST               |                        |                       | 0              | 0       | ?                | ?     | Flash Flooding     |
| Isolated 2 to 3-inch rains falling within a one hour period on the northeast and west sides of San Antonio caused brief flash flooding that closed access roads to interstate highways.  |       |                       |                        |                       |                |         |                  |       |                    |
| Refugio County   | 9     | 1155CST               |                        |                       | 0              | 0       | 0                | 0     | Funnel             |
| The sheriff noted a funnel 5 miles northwest of Refugio on SH 183.   |       |                       |                        |                       |                |         |                  |       |                    |
| Kleberg County   | 13    | 1259CST               |                        |                       | 0              | 0       | 0                | 0     | Funnel             |
| A funnel was seen between Kingsville and Alice on SH 41.   |       |                       |                        |                       |                |         |                  |       |                    |
| Webb County  | 14    | 1400CST               | .5                     | 40                    | 0              | 0       | 0                | 0     | Tornado (FO)       |
| A small tornado was spotted by a National Weather Service cooperative observer in extreme eastern Webb County, about 20 miles west of Preer. The touchdown took place in open country and no damage occurred.  |       |                       |                        |                       |                |         |                  |       |                    |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE   | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM                         |
|---|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--|
|   |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |  |
| <b>TEXAS, Southern</b>  |      |                       |                        |                       |                |         |                  |       |  |
| Cameron, Hidalgo, Willacy Counties  | 15   | 0300CST               |                        |                       | 1              | 0       | ?                | ?     | Flooding                                   |
| <p>An easterly wave moving onshore late on the evening of the 14th was responsible for the heavy rains that developed after midnight over western Cameron and eastern Hidalgo Counties. The area was bounded by a line from Brownsville to Harlingen to Santa Rosa to Weslaco to Brownsville.</p> <p>Rainfall amounts within the following six hours ranged from a little over 3 inches at Brownsville to over 9 inches at Adams Gardens, in Cameron County. Roads were flooded in Brownsville, Harlingen, Mercedes, Santa Rosa, San Benito, Weslaco, La Feria, Los Fresnos and Edinburg, with several families being evacuated in Mercedes, La Feria and Santa Rosa. Some of the people in Santa Rosa were not able to return home for several days.</p> <p>A Brownsville woman drowned about 0430CST when she drove into a resaca, an old river channel filled with water. Heavy rain had caused flooding in the street next to the resaca. Unable to tell how the road ran, the woman accidentally drove into the water. Despite efforts of a neighborhood boy and two policemen to rescue her, she drowned as the car sank in five feet of water.</p> |      |                       |                        |                       |                |         |                  |       |  |
| Middle Gulf Coast   | 15   | 0930CST               |                        |                       | 0              | 0       | 5                | 5     | Flooding                                   |
| <p>The easterly wave mentioned above also produced widespread 2 to 3-inch rains over the Middle Gulf Coast with isolated amounts over Goliad and Matagorda Counties in excess of 5 inches. An observer at Aransas Pass reported 4.5 inches of rain in less than one hour with rain still falling. This rain came in the wake of general 1 to 2-inch rains on the previous day and saturated the soil rather quickly.</p> <p>Widespread street flooding and ponding was reported over an area that include Aransas, Calhoun, Goliad, Jackson, Matagorda, Nueces, Refugio, San Patricio and Victoria Counties. No severe damage indicated, but damage was caused to streets and numerous vehicles were stranded through the morning and into the afternoon period. Damage was also reported to crops in the area, as some grain began to sprout on the stalk.</p>   |      |                       |                        |                       |                |         |                  |       |  |
| Brazoria County   | 15   | 1055CST               | .7                     | 60                    | 0              | 2       | 5                | 0     | Tornado (F1)                               |
| <p>A small tornado touched down in downtown Lake Jackson. Although its path was relatively short, it uprooted a 50-foot tree that fell on a city ambulance, injuring two volunteer firemen and demolishing the ambulance.</p>   |      |                       |                        |                       |                |         |                  |       |  |
| Victoria County   | 15   | 1300CST               |                        |                       | 0              | 0       | ?                | ?     | Tstm winds                                 |
| <p>A gust to near 50 mph from a severe thunderstorm was reported by a barge about 10 miles into Matagorda Bay. No damage was indicated.</p>   |      |                       |                        |                       |                |         |                  |       |  |
| Harris County   | 15   | 1510CST<br>1510CST    | .5                     | 60                    | 0              | 0       | 4                | ?     | Tornado (F1)<br>Funnels                    |
| <p>A tornado struck briefly in a northeast Houston residential area. It appeared first as a funnel, moving across 2 streets, then touched down, uprooting trees, snapping power and telephone poles, demolishing two carports, destroying a truck and shattering windows.</p> <p>Funnels were also spotted near downtown Houston and in the northeast part of the city at about the same time.</p>  |      |                       |                        |                       |                |         |                  |       |  |
| Galveston, Chambers Counties  | 16   | 0445CST               |                        |                       | 0              | 0       | ?                | ?     | Flooding                                   |
| <p>General 2 to 3-inch rains with isolated amounts to 4 inches caused street flooding in Baytown, Dickinson and Texas City. No severe damage was indicated.</p>   |      |                       |                        |                       |                |         |                  |       |  |
| Calhoun, Jackson and Victoria Counties  | 16   | 1000CST               |                        |                       | 0              | 0       | ?                | ?     | Flash Flooding                             |
| <p>Additional 1 to 2-inch rains over already saturated soil caused additional flooding. The most significant problems occurred in Victoria and along the upper and lower Mission Valley Roads.</p>  |      |                       |                        |                       |                |         |                  |       |  |
| Galveston, Chambers Counties  | 21   | 1315CST               |                        |                       | 0              | 0       | 0                | 0     | Funnels                                    |
| <p>Several small funnels were observed over Galveston Bay and the adjacent coastal waters.</p>  |      |                       |                        |                       |                |         |                  |       |  |
| Galveston County  | 23   | 1055CST               |                        |                       | 0              | 0       | 0                | 0     | Funnel                                     |
| <p>Ham Radio Operator from Alta Loma spotted a short lived funnel 10 miles southwest of Galveston moving north at 10 mph.</p>   |      |                       |                        |                       |                |         |                  |       |  |
| Calhoun County  | 29   | 1250CST               |                        |                       | 0              | 0       | 0                | 0     | Funnel                                     |
| <p>The sheriff reported a funnel over San Antonio Bay near Seadrift.</p>  |      |                       |                        |                       |                |         |                  |       |  |
| <b>41 TEXAS, Western</b>  |      |                       |                        |                       |                |         |                  |       |  |
| Hermleigh, Scurry County  | 04   | 1800CST               |                        |                       | 0              | 0       | 0                | 0     | Hail                                       |
| <p>3/4-inch sized hail fell about 11 miles west of Hermleigh. No damage.</p>  |      |                       |                        |                       |                |         |                  |       |  |
| Big Spring, Howard County   | 04   | 1938CST               | 1/5                    | 50                    | 0              | 0       | 0                | 0     | Tornado (FO)                               |
| <p>The Big Spring Police reported the tornado 8 miles southwest of Big Spring. It lifted a few minutes after it touched down. No damage.</p>  |      |                       |                        |                       |                |         |                  |       |  |
| Midland, Midland County   | 04   | 2020CST               |                        |                       | 0              | 0       | 0                | 0     | Hail                                       |
| <p>Golfball-sized hail 10 miles southeast of Midland was reported by storm spotters. No damage.</p>   |      |                       |                        |                       |                |         |                  |       |  |
| Midland, Midland County   | 04   | 2037CST               |                        |                       | 0              | 0       | 0                | 0     | Hail                                       |
| <p>Golfball-sized hail 10 miles east of Midland was reported by the Department of Public Safety. No damage reported.</p>  |      |                       |                        |                       |                |         |                  |       |  |
| San Angelo, Tom Green County  | 15   | 1823CST               |                        |                       | 0              | 0       | 0                | 0     | Funnels<br>Hail                            |
| <p>Golfball-sized hail and several funnel clouds were reported just north of San Angelo. No damage.</p>   |      |                       |                        |                       |                |         |                  |       |  |
| San Angelo, Tom Green County  | 15   | 2000CST               |                        |                       | 0              | 0       | 5                | ?     | Hail<br>Wind                               |
| <p>Up to 2-inch sized hail and wind gusts to 70 mph hit San Angelo causing severe damage to an industrial building (bursting up the concrete and buckling the roof). The whole building was pushed off its foundation. Hail destroyed much of the cotton crop near San Angelo.</p>  |      |                       |                        |                       |                |         |                  |       |  |
| <b>42 UTAH</b> ————— NONE REPORTED  |      |                       |                        |                       |                |         |                  |       |  |
| <b>43 VERMONT</b>   |      |                       |                        |                       |                |         |                  |       |  |
| Statewide   | 21   | 1600EST               |                        |                       | 0              | 0       | 6                | °C    | Thunderstorms,<br>Hail, Wind,<br>Lightning |
| <p>Thunderstorms moved across Vermont bringing down power lines and trees. Hail was reported in some areas. Worst hit was southern Vermont. Winds in southeastern Vermont hit 50 to 60 MPH. Some residents likened this storm to the hurricane of 1938. Lightning also hit the Communications Center at Colchester putting emergency services on backup systems.</p>  |      |                       |                        |                       |                |         |                  |       |  |
| Brattleboro, Windham County   | 21   | ?                     |                        |                       | 0              | 0       | 0                | 0     | Hail                                       |
| <p>Hail the size of ice cubes fell during a 5 minute rain storm. Downed line and trees were reported.</p>   |      |                       |                        |                       |                |         |                  |       |  |
| St. Johnsbury, Caldonia County  | 21   | ?                     |                        |                       | 0              | 0       | 4                | 0     | Thunderstorm,<br>Hail                      |
| <p>High winds rain and hail fell on St. Johnsbury and surrounding areas Thursday. Downed trees and power lines were reported.</p>   |      |                       |                        |                       |                |         |                  |       |  |
| Charlotte, Chittenden County  | 21   | PM                    |                        |                       | 1              | 2       | ?                | 0     | Thunderstorm                               |
| <p>Intense thunderstorms rolled across Vermont. Wind resulted in the electrocution of one youth when the ladder he was on was blown onto live wires. A co-worker jumped free, was only slightly injured. A four foot wave on Champlain Lake capsized a sail boat killing one youth.</p>   |      |                       |                        |                       |                |         |                  |       |  |
| <b>44 VIRGINIA</b>  |      |                       |                        |                       |                |         |                  |       |  |
| Central   | 2    | Evening               |                        |                       | 0              | 0       | 4                | 3     | Wind, Hail,<br>Lightning                   |
| <p>Thunderstorms caused scattered damage. In Charlottesville lightning caused a house fire with damage estimated at \$7,500. An airplane parked at the Orange County Airport was damaged severely when it was flipped over by a strong wind gust. In Bedford County a Centerville home was extensively damaged when a tree crashed through the roof. In addition, local crops were flattened by wind and hail and several autos were crushed by fallen trees.</p>   |      |                       |                        |                       |                |         |                  |       |  |
| Nottoway County   | 3    | 1600EST               |                        |                       | 0              | 0       | 4                | 0     | Wind                                       |
| <p>A large chicken house near the town of Crewe was destroyed..loss estimated at \$35,000. Many trees in the area were downed by wind.</p>  |      |                       |                        |                       |                |         |                  |       |  |



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE   | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM                  |
|---|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|-------------------------------------|
|   |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                                     |
| <b>— VIRGINIA</b>   |      |                       |                        |                       |                |         |                  |       |                                     |
| Manassas  | 4    | 1530-1600EST          |                        |                       | 0              | 0       | 5                | 0     | Wind                                |
| A supermarket, less than 2 months from completion, had 40 percent of the roof stripped off along with other damage..the loss estimated at near \$100,000. A nearby tractor trailer was overturned and three trailers damaged, one a total loss. Distribution of debris led to the conclusion that this was a downburst-type windstorm.  |      |                       |                        |                       |                |         |                  |       |                                     |
| Guinea, Caroline County   | 4    | Night                 |                        |                       | 0              | 0       | 4                | 0     | Wind                                |
| Uprooted or broken off trees left a major clean-up job necessary at the National Park Service Jackson Shrine.   |      |                       |                        |                       |                |         |                  |       |                                     |
| Amelia County   | 13   | Afternoon             |                        |                       | 0              | 0       | 3                | 0     | Lightning                           |
| Lightning struck a tree under which 5 cows were standing. All were killed. The loss was estimated at near \$3,000.  |      |                       |                        |                       |                |         |                  |       |                                     |
| Loudon and Fairfax Counties   | 17   | 1900EST               |                        |                       | 0              | 0       | 3                | 0     | Wind                                |
| A cinderblock wall under construction at Dulles International Airport was blown over and a truck overturned by thunderstorm winds. In nearby Alexandria 14,000 homes were left without electricity.   |      |                       |                        |                       |                |         |                  |       |                                     |
| Irrington, Lancaster County   | 19   | 1445EST               |                        |                       | 0              | 0       | 4                | 0     | Wind                                |
| Several trees were uprooted and at least one vehicle damaged by falling trees or branches.  |      |                       |                        |                       |                |         |                  |       |                                     |
| Northern  | 20   | 1830-1930EST          |                        |                       | 0              | 5       | 3                | 0     | Wind                                |
| In Alexandria wind blew out storefront windows. Several persons received minor injuries from flying glass. Power outages were reported in King George County  |      |                       |                        |                       |                |         |                  |       |                                     |
| Statewide   | 21   | 1800-2200EST          |                        |                       | 0              | 3       | 6                | 0     | Wind                                |
| Widespread property damage occurred as squall line activity cut a swath across the state. Wind-downed trees disrupted power lines, blocked roads, and caused considerable loss to home and automobile owners. One Shenadoah Valley power company reported a damage total of near \$200,000 to equipment and the cost of restoration of service. In Staunton, a television broadcast tower toppled..the loss estimated at \$50,000. Small buildings and house trailers suffered a variety of damage from being overturned, to having roofs taken off. Several homes had lightning-caused fires that resulted in significant damage, while a number of barns were destroyed by lightning as well. One interesting occurrence: an automobile was struck by lightning, leaving three occupants momentarily stunned.. only a small dent was found on the hood of the car.  |      |                       |                        |                       |                |         |                  |       |                                     |
| Hillboro, Bath County   | 23   | Evening               |                        |                       | 0              | 0       | 4                | 0     | Lightning                           |
| A group of 23 cows standing under a tree, along with 3 others in the pasture nearby, were killed by a bolt of lightning that struck the tree and then apparently traveled underground. The total of 26 head of cattle killed by a single lightning strike was just one short of that statistical record listed in the Guinness book. Loss to the owners: \$18,000.  |      |                       |                        |                       |                |         |                  |       |                                     |
| NOTE....<br>The month of July was, in many sections of the state, the driest on record. Much of the state showed rainfall averaging 4 inches below normal for the month.  |      |                       |                        |                       |                |         |                  |       |                                     |
| <b>45 WASHINGTON</b>  |      |                       |                        |                       |                |         |                  |       |                                     |
| Snohomish County  | 17   | 1830 PST              |                        |                       | 0              | 1       | 0                | 0     | Lightning                           |
| A 12 year old boy was struck by lightning in Everett while sitting under a tree with an unopened umbrella. The right hand which had held the umbrella and right leg were burned.  |      |                       |                        |                       |                |         |                  |       |                                     |
| Yakima County   | 19   | 1515 PST              |                        |                       | 0              | 0       | 0                | 6     | Hail                                |
| Apple & pear crops in the upper Yakima Valley suffered heavy damage from hailstones ranging up to three-eighths inch diameter. The storm lasted 25 minutes. The same area was again hit by hail on July 23. Total damage to crops from the two hailstorms was estimated at more than a million dollars.   |      |                       |                        |                       |                |         |                  |       |                                     |
| 8 East of Colville (Stevens County)   | 25   | 1800PST               | short narrow           |                       | 0              | 0       | 4                | 0     | Tornado (F1)                        |
| A tornado caused extensive damage to a small travel trailer and a mobile home when the trailer was hurled 20 feet into the side of the mobile home. A shed behind the mobile home was demolished and blown 300 yards away. A motorcycle parked several feet from the wrecked travel trailer remained upright.   |      |                       |                        |                       |                |         |                  |       |                                     |
| 10 East of Ritzville (Adams County)   | 29   | 2000 PST              |                        |                       | 0              | 1       | 0                | 0     | Lightning                           |
| Lightning struck a restaurant. The bolt of lightning went through the building's wiring to a grill and then went across the counter striking the right hand of an 8 year old boy. The boy was treated for a minor burn at the base of his right thumb.  |      |                       |                        |                       |                |         |                  |       |                                     |
| <b>46 WEST VIRGINIA</b>   |      |                       |                        |                       |                |         |                  |       |                                     |
| Welch City & McDowell County Area   | 03   | 0100EST               |                        |                       | 0              | 0       | 5                | 0     | Thunderstorm Wind                   |
| High wind estimated to be 55 MPH accompanying a thunderstorm caused destruction to buildings at Bailey Lumber Company, and damaged the back wall of the Mont View School gymnasium. In addition, trees were uprooted and limbs broken throughout the county.  |      |                       |                        |                       |                |         |                  |       |                                     |
| Hurricane in Putnam County  | 17   | 1615EST               |                        |                       | 0              | 0       | 0                | ?     | Hail                                |
| Hail 1 inch in diameter was reported in Hurricane.  |      |                       |                        |                       |                |         |                  |       |                                     |
| Cabell County   | 17   | 1645EST               |                        |                       | 0              | 0       | ?                | ?     | Hail                                |
| Hail 3/4 inches in diameter was reported at Milton at 1645EST. Wind damage to large trees and to power lines was reported throughout the county.  |      |                       |                        |                       |                |         |                  |       |                                     |
| Lewis County  | 20   | 1700EST               |                        |                       | 0              | 2       | 3                | 0     | Thunderstorms, Wind                 |
| Thunderstorm downbursts caused extensive tree and power line damage throughout the county. At Berlin, two persons were injured when a mobile home was blown from its foundation and moved about five feet. The porch was blown about 300 yards away.  |      |                       |                        |                       |                |         |                  |       |                                     |
| Romney in Hampshire County  | 20   | 1730EST               |                        |                       | 0              | 0       | 2                | 0     | Thunderstorm, Wind                  |
| Wind gust accompanying a thunderstorm were estimated at 55 MPH. Extensive damage was done to power lines. Numerous trees were damaged and/or uprooted.  |      |                       |                        |                       |                |         |                  |       |                                     |
| Fayette County  | 20   | 1815-1940EST          |                        |                       | 0              | 0       | ?                | ?     | Thunderstorms, Wind, Hail           |
| Winds accompanying a thunderstorm were estimated at 80 MPH at Hico in northwest Fayette County. Damage was done to trees and utility lines. Strong winds and hail 1/2 to 3/4 inches in diameter was reported 6 miles north of Oak Hill.   |      |                       |                        |                       |                |         |                  |       |                                     |
| Ghent and Cool Ridge in Southern Raleigh County   | 20   | 1852-1920EST          |                        |                       | 0              | 0       | 0                | 0     | Hail                                |
| Hail 1 3/4 inches in diameter was reported at Ghent at 1852EST and at Cool Ridge at 1920EST.  |      |                       |                        |                       |                |         |                  |       |                                     |
| Greenbrier County   | 21   | 1700-2400EST          |                        |                       | 0              | 0       | ?                | ?     | Thunderstorm Wind                   |
| Downburst winds broke and uprooted large trees throughout the county with most damage in the southern portion. A 100 foot long cinderblock chicken house was destroyed in Lewisburg. Pieces of the roof were blown throughout the field and walls caved in. Smaller farm buildings were also destroyed in the area. Gardens and corn fields were flattened. Route 60 was blocked by down trees.   |      |                       |                        |                       |                |         |                  |       |                                     |
| Northern Half of West Virginia  | 21   | 1730-2110EST          |                        |                       | 0              | 0       | ?                | ?     | Hail, Wind, Thunderstorm            |
| Severe thunderstorms moved across the northern half of West Virginia accompanied by hail and strong downburst winds. Hail 1 3/4 inches in diameter was reported at Shinston at 1850EST and 1/2 to 3/4 inch diameter hail was reported at Good Hope at 2010EST, both in Harrison County. Hail 1/2 to 3/4 inches in diameter was reported at 1930EST at Porterwood in Tucker County. Hail 1/2 inches in diameter was reported at Bellington in Barbour County at 1945EST. Wind gusts of 50-60 MPH were estimated at Marion County between 1730 and 1900EST. Heavy winds blew down the screen at the Twilite Drive-in theater at Eldora in Marion County. Large trees were uprooted by straightline winds across a 5 1/2 mile path from 2 miles southwest of Newburg to 2 miles ENE of Fallsview in Preston County between 1800 and 1830EST; path of damage ranged from 100 to 500 yards wide. Large trees were damaged in Morgantown, and a 36 foot porch was blown off a trailer at Wade's Hollow in Monongalia County between 1730 and 1900EST. Large trees were uprooted and several buildings damaged by wind at Keyser in Mineral County between 1800 and 1930EST; several large pine trees were broken in half. Lesser wind damage to trees and power lines and small hail was reported in almost every county in northern West Virginia. Hail 2 3/4 inches in diameter was reported along Route 16 in Pleasants County at approximately 1800EST. |      |                       |                        |                       |                |         |                  |       |                                     |
| NNW-SSE Band of West Virginia encompassing the central third of West Virginia   | 22   | Evening               |                        |                       | 0              | 0       | 4                | 0     | Thunderstorm Winds                  |
| Thunderstorms with hail and strong winds were reported throughout the area. Wind damage was restricted to trees and utilities. Downburst winds in the affected area were estimated to be at least 50 knots.   |      |                       |                        |                       |                |         |                  |       |                                     |
| Weirton, W. Va.   | 22   | 1800-2400EST          |                        |                       | 0              | 1       | 5                | 0     | Heavy Rain Producing Flash Flooding |
| Heavy rains resulted in local flooding in Weirton. Basements of homes were flooded washing mud and debris into the homes and the streets. In addition to damage to furnishings, a sidewalk was cracked and a supporting wall was broken by the water. One person was injured while trying to escape rising water after falling asleep in the basement before the storm.   |      |                       |                        |                       |                |         |                  |       |                                     |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED* DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|-------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY          | CROPS |                    |

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED* DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|-------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY          | CROPS |                    |

## WEST VIRGINIA

|  |       |                           |  |  |   |   |   |   |                                   |
|--|-------|---------------------------|--|--|---|---|---|---|-----------------------------------|
| Hurricane in Putnam County West Virginia   | 23    | 1600-1700EST              |  |  | 0 | 0 | ? | ? | Hail                              |
| Hail 3/4 inch in diameter was reported at Hurricane.   |       |                           |  |  |   |   |   |   |                                   |
| Blennerhassett Island and Parkersburg area in Wood County  | 23    | 1615-2200EST              |  |  | 0 | 0 | ? | ? | Thunderstorms, Wind               |
| A thunderstorm with gusts estimated at 50-65 knots moved across the Blennerhassett Island and through the Parkersburg area causing wind damage to trees and utility lines. Approximately 40 large poplar trees and walnut trees were felled on the island. Numerous trees were uprooted in Parkersburg. Minor flooding was also reported in Parkersburg and Vienna.  |       |                           |  |  |   |   |   |   |                                   |
| Weston in Lewis County   | 23    | 1730EST                   |  |  | 0 | 1 | 3 | 0 | Wind                              |
| A man was injured when parts of a brick wall struck him. The wall was felled as a result of a downburst accompanying a thunderstorm. Maximum winds were estimated to be 60 MPH.  |       |                           |  |  |   |   |   |   |                                   |
| Southwest Portion of West Virginia   | 23    | 1845-2115EST              |  |  | 0 | 0 | ? | ? | Thunderstorms, Wind, Funnel Cloud |
| Thunderstorms with high winds and hail were reported over most of the southwestern portion of the state. Winds were estimated at 70 to 80 MPH at Hico in Fayette County and at 55 MPH at Oak Hill in Fayette County also. Wind damage was also reported at Hinton and Madans Creek in Summers County around 2100EST. Hail 1 3/4 inches in diameter was reported at 2100EST in Coal River area of Raleigh County. Small hail was also reported throughout the area. A funnel cloud was reported at Bolt, West Virginia at 2005EST by the county fire department. Wind damage to trees and utilities was abundant in the area. |       |                           |  |  |   |   |   |   |                                   |
| Clay County  | 23-24 | Late Evening - Early A.M. |  |  | 0 | 0 | ? | 0 | Flash Flooding                    |
| Flash flooding caused by heavy thunderstorm rains was reported in Clay County. In the Paxton Hollow, Reed Fork, and Laura Creek areas, banks overflowed forcing residents to evacuate. Route 4 at Haysel was closed due to high water, mud, rocks and debris which was carried down the adjacent hill by water. At Summers Fork a car, camping trailer, and some small buildings were washed away. Bridges were washed out along Laurel Creek.   |       |                           |  |  |   |   |   |   |                                   |

## 47 WISCONSIN

|   |    |              |     |    |   |   |   |   |                  |
|---|----|--------------|-----|----|---|---|---|---|------------------|
| Southern Wisconsin  | 01 | 0000-1200CST |     |    | 0 | 0 | 5 | 0 | Electrical, Wind |
| Severe thunderstorms rumbled across the southern half of Wisconsin producing wind gusts up to 65 mph, numerous lightning strikes and marble-size hail. Much of the damage reported was in Dane County. Strong winds blew siding off a house in the town of Madison and a window was blown out in Fitchburg. Lightning snapped a 50 foot tower at a church in Madison, sending stonework from the tower crashing through the roof of an adjoining office. Damage was estimated at \$50,000. At about this same time, a radio station in Sun Prairie was knocked off the air by a lightning strike. Local tree damage occurred in Madison from strong winds. Strong winds also caused trees down and damage in a one-mile area west of Old Ashippun (Dodge County). Lightning struck a home in the town of Saukville (Ozaukee County) and the ensuing fire caused \$20,000 damage. Later in the morning, lightning struck a home in Beloit (Rock County) causing a \$15,000 fire. |    |              |     |    |   |   |   |   |                  |
| Eagle River, Vilas County   | 03 | 0439CST      | 1/2 | 20 | 0 | 0 | 5 | 0 | Tornado (F1)     |
| A tornado touched down briefly at the Eagle River Municipal Airport, destroying two single-engine planes and damaging 13 others. 5/8 inch ropes holding planes down were shredded. One plane cart-wheeled 400 feet. Damage estimated at approximately \$200,000.  |    |              |     |    |   |   |   |   |                  |
| Northwest Wisconsin   | 03 | 1245-1700CST |     |    | 0 | 6 | 7 | ? | Wind             |
| An intense line of thunderstorms moved into northwest Wisconsin early in the afternoon generating downburst winds over 100 mph and scattered tornadoes. An aerial survey two days later revealed a downburst swath stretching nearly 110 miles from Polk County northeast to Ashland County. The average width of the swath was five miles. Total damage estimates were over \$11 million. Damage amounts were not conclusive since much of the damage was to public and private forest   |    |              |     |    |   |   |   |   |                  |

## WISCONSIN

|  |    |         |   |    |   |   |   |   |                    |
|--|----|---------|---|----|---|---|---|---|--------------------|
| Polk County  | 03 | 1250CST |   |    | 0 | 1 | 6 | ? | Wind               |
| lands. A second line developed almost concurrently with the first line across Douglas County. Individual storms moved to the northeast along the lines.  |    |         |   |    |   |   |   |   |                    |
| St. Croix Falls began to experience very strong winds causing light to moderate damage to homes and trees. Falling trees damaged vehicles and homes in Milltown. In the village of Luck, garages were blown out and roofs taken off. One woman suffered minor injuries when a tree fell through the roof of her home. Cement block walls were pushed in and a roof was torn off a welding shop. As the storms and strong downburst winds moved northeast, a barn was demolished in rural Clam Falls. A barn and shed were destroyed 10 miles east of Lewis and a house trailer was totally demolished 5 miles east of Lewis. Many barns, silos and other farm buildings were damaged or destroyed in the Atlas and Trade River areas, Coomer area, and Spirit and Dunham Lakes. Damage reports were also received from the town of Lewis, West Sweden and Indian Creek areas. Damage estimates for county approximately \$1,330,000. |    |         |   |    |   |   |   |   |                    |
| Burnett County   | 03 | 1300CST |   |    | 0 | 3 | 6 | 5 | Wind               |
| Very heavy thunderstorms, moving northeast across the county, cut a devastating path beginning in Anderson Township and exiting through Rusk and Scott Townships. Downburst winds estimated at 80-100 mph caused extensive tree damage and destruction, especially to forestlands. Many homes were damaged by falling trees and strong winds. Fifteen barns were reported damaged or destroyed. Much farm equipment was also destroyed. At 1315CST, downburst winds flipped and totally destroyed a mobile home 6 miles north of Grantsburg, slightly injuring three persons inside. Surveys of damage in the county estimated over \$4 million.   |    |         |   |    |   |   |   |   |                    |
| Washburn County  | 03 | 1300CST |   |    | 0 | 0 | 6 | ? | Wind               |
| Downburst winds from intense thunderstorms continued into Washburn County damaging at least 20,000 acres of mostly forestland property. Thousands of trees were uprooted or pushed over. Within the downburst path, 100 percent of the trees were down. Barns, silos and assorted farm equipment were damaged or destroyed by the winds. The roof was ripped off a home on Wilkenson Lake. Damage estimated at approximately \$1 million.  |    |         |   |    |   |   |   |   |                    |
| Sawyer County  | 03 | 1300CST |   |    | 0 | 0 | 5 | ? | Wind, Funnel Cloud |
| Downburst winds continued across the extreme northwest corner of Sawyer County. Hundreds of trees were blown down. At Nelson Lake, 4 miles north of Hayward, people were trapped in campers by fallen trees and had to be cut out. No injuries were reported. Several vehicles were crushed by falling trees and a garage was damaged. A funnel cloud was spotted by public in this same area. Only minor damage was reported around the city of Hayward.  |    |         |   |    |   |   |   |   |                    |
| Bayfield County  | 03 | 1300CST |   |    | 0 | 0 | 6 | ? | Winds              |
| Downburst winds from a line of intense thunderstorms caused an estimated \$1.5 million damage to forestland in Bayfield County. The 5 mile wide downburst swath entered through Cable Township and exited near Kelly Township. In the Mason area, barns and buildings were destroyed or damaged. In Benoit, a 32 foot silo was flattened and the cap was hurled 200 feet across the yard.  |    |         |   |    |   |   |   |   |                    |
| Barnes Township, Bayfield County   | 03 | 1430CST | 3 | 55 | 0 | 2 | 5 | 0 | Tornado (F1)       |
| A tornado was spotted by a town of Barnes fireman as it was touching down near Ellison Lake. The tornado struck cabins, trees, power poles and lines as it traveled northeast. A house trailer was tipped over with 5 persons inside, injuring one person. The tornado was reportedly skipping, touching down and then withdrawing again. The tornado continued northeast hitting cabins on Sand Bar Lake where one person was slightly injured when a tree fell onto a cabin. The tornado touched down again at Island Lake damaging a house.   |    |         |   |    |   |   |   |   |                    |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE   | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM        |
|---|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|---------------------------|
|   |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                           |
| <b>WISCONSIN</b>  |      |                       |                        |                       |                |         |                  |       |                           |
| Ashland County  | 03   | 1330CST               |                        |                       | 0              | 0       | 5                | ?     | Wind                      |
| The downburst swath from a line of intense thunderstorms ended in White River and Marengo Townships in Ashland County. Twelve farm buildings were damaged and extensive tree damage was reported. Downburst winds at Sanborn toppled a 20 x 70 foot silo, causing it to destroy a nearby farm building and killing 11 cattle inside.  |      |                       |                        |                       |                |         |                  |       |                           |
| Ashland County  | 03   | 1430CST               | 1/4                    | 50                    | 0              | 0       | ?                | ?     | Tornado (F0)              |
| A tornado touched down briefly 3 miles east of Iron River.  |      |                       |                        |                       |                |         |                  |       |                           |
| Ashland County  | 03   | 1430CST               | 1/4                    | 50                    | 0              | 0       | ?                | ?     | Tornado (F0)              |
| A tornado touched down briefly near the city of Ashland.  |      |                       |                        |                       |                |         |                  |       |                           |
| Douglas County  | 03   | 1330 CST              |                        |                       | 0              | 0       | 6                | ?     | Wind                      |
| A second line of intense thunderstorms with strong downburst winds developed across Douglas County. 80 square miles of timber was damaged and a half mile of power poles were downed. Six barns and out-buildings were damaged. Homes and vehicles were damaged by falling trees. Some road wash-outs due to heavy rains were reported. Heaviest damage appeared to be from Dairyland to Brule. Damage estimated at around \$2.5 million in Douglas County.   |      |                       |                        |                       |                |         |                  |       |                           |
| Eau Claire, Eau Claire County   | 03   | 1338CST               |                        |                       | 0              | 0       | ?                | ?     | Wind                      |
| Wind gusts to 60 mph were recorded at the Eau Claire Municipal Airport.   |      |                       |                        |                       |                |         |                  |       |                           |
| Pepin County  | 03   | 1430CST               |                        |                       | 0              | 0       | 5                | ?     | Wind                      |
| Intense thunderstorms with strong downburst winds damaged many farms in the Pepin area. Winds ripped apart a cement stave silo and damaged a cattle barn north of Pepin. A nearby farm had a barn completely flattened. In Pepin, a residence had a garage torn apart and a trailer home rammed against the house. West of Arkansaw, a farmer lost a barn and shed due to strong winds.   |      |                       |                        |                       |                |         |                  |       |                           |
| Buffalo County  | 03   | 1530CST               |                        |                       | 0              | 0       | ?                | ?     | Wind                      |
| 60 mph wind gusts were reported by the Sheriff's Office at Alma. There was widespread damage to trees and power lines along with numerous lightning strikes.  |      |                       |                        |                       |                |         |                  |       |                           |
| Eau Claire County   | 03   | 1610CST               | 8                      | 880                   | 0              | 0       | 5                | 0     | Tornado (F2)              |
| A tornado touched down in the southwest corner of Otter Creek Township and moved to the northeast, just southeast of Lincoln Township. The tornado damaged 9 farms in its path, with losses amounting to approximately \$192,000.   |      |                       |                        |                       |                |         |                  |       |                           |
| Lake Eau Claire   | 03   | 1620CST               | 1/2                    | 50                    | 0              | 0       | 4                | 0     | Tornado (F2)              |
| A tornado briefly touched down in a wooded area near Lake Eau Claire and Highway G downing 50 to 60 trees.  |      |                       |                        |                       |                |         |                  |       |                           |
| La Crosse County  | 03   | 1700-1745CST          |                        |                       | 0              | 1       | 5                | 0     | Wind, Funnel Clouds       |
| Strong winds blew a tree onto a mobile home in Onalaska. Wind gusts to 68 mph were recorded at the downtown Weather Service Office in La Crosse at 1736 CST. Gusts to 58 mph were reported at the La Crosse Airport at 1736 CST. A brick wall in downtown La Crosse was blown down. Many trees and power lines were downed and numerous reports of funnel clouds throughout the county were received. One man was injured by a falling tree. The exact time and location of the incident was not determined.  |      |                       |                        |                       |                |         |                  |       |                           |
| Clark and Marathon Counties   | 03   | 1720CST               | 12                     | 55                    | 0              | 0       | 5                | ?     | Tornado (F2)              |
| A tornado briefly touched down near a home, 6 miles west of Unity (Clark County) inflicting minor damage. It rose up then touched down again 5 miles west of Unity leaving a 50 foot path through a corn field. A farmer spotted the tornado touching down again 1 mile west of Unity and moving east. It was described as, "long and snakey-looking". The tornado hit power lines 1 mile west of Unity then moved to the northeast. It skirted to the north of Unity and crossed Highway 13 into Marathon County. In Marathon County, the tornado struck a farm just east of Highway 13 flipping a truck and camper and ripping a shed off its foundation. The tornado then struck a farm 1 mile east of Colby and just south of Highway N, destroying many trees. |      |                       |                        |                       |                |         |                  |       |                           |
| <b>WISCONSIN</b>  |      |                       |                        |                       |                |         |                  |       |                           |
| Melrose, Jackson County   | 03   | 1725CST               |                        |                       | 0              | 0       | ?                | ?     | Wind, Hail                |
| Winds estimated at 60 to 70 mph downed trees and power lines. 1/2 inch hail was also reported.  |      |                       |                        |                       |                |         |                  |       |                           |
| Trempealeau County  | 03   | 1730CST               | ?                      | ?                     | 0              | 0       | 0                | 0     | Tornado (F0)              |
| A tornado was spotted 4 miles west of Arcadia. No damages were reported.  |      |                       |                        |                       |                |         |                  |       |                           |
| Trempealeau County  | 03   | 1730CST               |                        |                       | 0              | 0       | ?                | ?     | Wind                      |
| Winds in excess of 60 mph were reported in Ettrick and downed trees and power lines were reported in Strum.   |      |                       |                        |                       |                |         |                  |       |                           |
| Langlade County   | 03   | 1730CST               |                        |                       | 0              | 0       | 5                | ?     | Wind                      |
| Strong downburst winds from thunderstorms blew down a large machine storage building 13 miles east of Antigo. Windows on a nearby farm were blown out and large trees were uprooted. A chopper wagon was flipped over. In the city of Antigo, many trees and limbs were downed and electricity was knocked out for many hours.  |      |                       |                        |                       |                |         |                  |       |                           |
| Shawano County  | 03   | 1730-2054CST          |                        |                       | 0              | 0       | 5                | ?     | Wind                      |
| Several severe thunderstorms rumbled across Shawano County with the greatest damage reported in the western section. Strong winds damaged a farm in Wittenberg and a 12 x 12 foot shed "disappeared". A barn and silo were destroyed in Eland. Also in Eland, a home lost its roof and the garage and car were damaged. Tents, campers and cars were damaged by falling trees at Star Campsite in Bowler. A tavern in Bowler was also damaged.  |      |                       |                        |                       |                |         |                  |       |                           |
| Town of Birnamwood, Shawano County  | 03   | 1900CST               | 1/2                    | 50                    | 0              | 0       | 4                | ?     | Tornado (F1)              |
| A farmer watched as a tornado destroyed his barn and hay elevator in the town of Birnamwood.  |      |                       |                        |                       |                |         |                  |       |                           |
| Monroe County   | 03   | 1800CST               |                        |                       | 0              | 4       | 4                | ?     | Wind, Hail, Funnel Clouds |
| Thunderstorm winds estimated at 60 to 70 mph downed a cattle shed at county roads P and V. Strong winds rolled trailers in a campground between Kendall and Ontario. Four persons were slightly injured. Golf-ball size hail was reported at Warrans and Cataract. Numerous funnel clouds were reported throughout the county.  |      |                       |                        |                       |                |         |                  |       |                           |
| Adams County  | 03   | 1800-1900CST          |                        |                       | 0              | 0       | 4                | ?     | Wind, Funnel Clouds       |
| A garage was lifted up and dropped on a car by strong winds in the Lake Sherwood area. Several boats on the lake shore were flipped over. At 1830 CST, 5 funnel clouds were spotted by Dellwood firemen, 6 miles west of Adams. Extensive tree damage was reported throughout the county.   |      |                       |                        |                       |                |         |                  |       |                           |
| Quincy Township, Adams County   | 03   | 1800CST               | 6                      | 50                    | 0              | 0       | 4                | 0     | Tornado (F1)              |
| A tornado was spotted by sheriff deputies crossing the Castle Rock flowage and moving into Quincy Township where a barn and a few trees were knocked down, after which the funnel rose again.   |      |                       |                        |                       |                |         |                  |       |                           |
| Sauk County   | 03   | 1805CST               |                        |                       | 0              | 4       | 4                | 0     | Wind                      |
| Thunderstorm downburst winds and heavy rains hit a campground at Dutch Hollow Lake, located 10 miles northwest of Reedsburg. Four persons were injured.   |      |                       |                        |                       |                |         |                  |       |                           |
| Springville Township, Adams County  | 03   | 1845CST               | ?                      | ?                     | 0              | 0       | 0                | 0     | Tornado (F0)              |
| A tornado touched down in a field south of Highway 82 in Springville Township. No damage reported.  |      |                       |                        |                       |                |         |                  |       |                           |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |

## WISCONSIN

|   |                 |   |    |   |   |   |   |   |                     |
|---|-----------------|---|----|---|---|---|---|---|---------------------|
| New Haven Township, Adams County  | 03 1900CST      | ? | ?  | 0 | 0 | 0 | 0 | 0 | Tornado (F0)        |
| A tornado was spotted in the Lake Mason area. No damage reported.   |                 |   |    |   |   |   |   |   |                     |
| 4 Miles North of Cutler, Juneau County  | 03 1804CST      | 1 | 50 | 0 | 8 | 5 | 0 | 0 | Tornado (F3)        |
| Two vortices reportedly merged over the Eagle's Nest Resort. One vortex moved from the south and the vortex from the north briefly became a waterspout as it moved across a small lake. The tornado picked up a mobile home and lifted it over a 10 foot tree, dropping it 40 feet from its original site. 8 persons were injured and briefly trapped in the wreckage. One person was seriously injured with head and chest wounds. Other trailers were also blown over and damaged by falling trees. Damage at the resort was in excess of \$100,000.  |                 |   |    |   |   |   |   |   |                     |
| Westby, Vernon County   | 03 1815CST      |   |    | 0 | 1 | 6 | 3 |   | Wind, Funnel Clouds |
| An intense thunderstorm with destructive downburst winds moved through the Westby area causing more than \$1.1 million in damages. One person was slightly injured when a home was totally destroyed. Four warehouses sustained considerable damage and a middle school lost its roof. The high school also lost a shed, chimney and part of its roof. A school bus garage was destroyed. 45 property owners in the city of Westby reported damages totaling approximately \$534,000. In rural Westby, 18 farm buildings were destroyed with damages totaling \$125,000. 20 to 30 pieces of farm equipment were damaged or destroyed. The downburst swath was estimated as 3 1/2 miles long and 100 feet wide. Funnel clouds were reported by the public in the city of Westby and 1 mile west of Westby. |                 |   |    |   |   |   |   |   |                     |
| Viroqua, Vernon County  | 03 1820CST      |   |    | 0 | 0 | 0 | 0 |   | Funnel Cloud        |
| A funnel cloud was sighted at tree top level in Viroqua.  |                 |   |    |   |   |   |   |   |                     |
| Vernon County   | 03 1930CST      |   |    | 0 | 0 | ? | ? |   | Wind                |
| 70 mph winds reported throughout the county.  |                 |   |    |   |   |   |   |   |                     |
| Mauston, Juneau County  | 03 1816CST      | ? | ?  | 0 | 0 | 0 | 0 |   | Tornado (F0)        |
| Tornado reported by public one mile west of Mauston. No damage reported.  |                 |   |    |   |   |   |   |   |                     |
| Reedsburg, Sauk County  | 03 1816CST      |   |    | 0 | 0 | 4 | ? |   | Wind                |
| Thunderstorm winds swept through Reedsburg area uprooting trees and knocking down power lines. A car was hit by falling tree.   |                 |   |    |   |   |   |   |   |                     |
| Wood County   | 03 1817CST      |   |    | 0 | 0 | 0 | 0 |   | Funnel Cloud        |
| Funnel cloud was sighted 5 miles northwest of Nekoosa.  |                 |   |    |   |   |   |   |   |                     |
| Richland County   | 03 1838CST      |   |    | 0 | 0 | 5 | 0 |   | Wind, Funnel Cloud  |
| Thunderstorm downburst winds moved across the Richland Center area uprooting trees. Three cars were destroyed by fallen trees and at least 4 homes were damaged. A funnel cloud, at tree top level, moved across the northside of Richland Center. Damages estimated at 1/2 million dollars.  |                 |   |    |   |   |   |   |   |                     |
| Maupaca and Outagamie Counties  | 03 1900-1940CST |   |    |   |   |   |   |   | Wind                |
| Very heavy thunderstorms with strong winds moved across southern Maupaca. The storms moved northeast from Dayton Township to the White Lake area and Meyawega then on to New London. An airplane was flipped over at the Airport southeast of the city of Maupaca. A five-mile stretch near Rural sustained heavy tree and house damages. White Lake and Meyawega also suffered considerable damage from high winds. The storms moved through southern New London into Outagamie County. Many trees were reported downed and several homes were damaged. Though no tornadoes were reported, some tree tops appeared to have been sheared off.   |                 |   |    |   |   |   |   |   |                     |
| Wood County   | 03 1911CST      | ? | ?  | 0 | 0 | 0 | 0 | 0 | Tornado (F0)        |
| A tornado was reported 5 miles northeast of Nekoosa.  |                 |   |    |   |   |   |   |   |                     |

## WISCONSIN

|  |                 |     |    |   |   |   |   |  |                           |
|--|-----------------|-----|----|---|---|---|---|--|---------------------------|
| Maushara County  | 03 1915CST      |     |    | 0 | 0 | 5 | 0 |  | Wind, Hail, Funnel Clouds |
| Several funnel clouds were reported by the public in the Plainfield area. A barn was flattened near Plainfield. High winds caused extensive tree damage throughout the county. A mobile home was cut in half by a falling tree near Mt. Morris. No injuries reported. One-half inch hail was reported 4 miles northeast of Mautama.                          |                 |     |    |   |   |   |   |  |                           |
| Iowa County  | 03 1915CST      | 1/2 | 50 | 0 | 0 | 5 | 0 |  | Tornado (F4)              |
| A tornado struck the Dodgeville Monument Company on Highway 23, north of Dodgeville. The 40 x 45 foot cement block structure was demolished. A 3000 pound gravestone was uprooted and damaged. Two tractors were also damaged. Debris was driven into the ground.  |                 |     |    |   |   |   |   |  |                           |
| Juneau County  | 03 1915CST      | ?   | ?  | 0 | 0 | ? | ? |  | Tornado (F0)              |
| A tornado was reported near Lyndon Station. No damage was reported.  |                 |     |    |   |   |   |   |  |                           |
| Marquette County   | 03 1921-1934CST |     |    | 0 | 0 | 5 | ? |  | Funnel Clouds, Wind       |
| Several funnel clouds were spotted in the northwest corner of the county. Wind gusts to 60 mph were reported at Oxford. At 1934 CST, a funnel cloud was sighted east of Oxford by the city Police Chief. Severe tree damage was reported between Oxford and Montello and north of Oxford. Many vehicles were damaged by falling trees. No injuries reported. |                 |     |    |   |   |   |   |  |                           |
| Oxford, Marquette County   | 03 1934CST      | ?   | ?  | 0 | 0 | 0 | 0 |  | Tornado (F0)              |
| Tornado touchdown reported northeast of Oxford moving east. No damage reported.  |                 |     |    |   |   |   |   |  |                           |
| Oxford, Marquette County   | 03 1939CST      | ?   | ?  | 0 | 0 | 0 | 0 |  | Tornado (F0)              |
| Tornado touchdown reported in Oxford by State Patrol. No damage reported.  |                 |     |    |   |   |   |   |  |                           |
| Oxford, Marquette County   | 03 2000CST      | 1/2 | 30 | 0 | 0 | 4 | 0 |  | Tornado (F1)              |
| Tornado was spotted briefly touching down in wooded area and leveling many trees.  |                 |     |    |   |   |   |   |  |                           |
| Buffalo County   | 03 1925CST      |     |    | 0 | 0 | 4 | ? |  | Wind                      |
| Strong thunderstorm downburst winds flattened a barn at a farm north of Nelson. A cattle shed, corn crib and garage were also destroyed. At another farm across the road, the roof was taken off a barn.   |                 |     |    |   |   |   |   |  |                           |
| Crawford County  | 03 1930CST      |     |    | 0 | 0 | ? | ? |  | Wind                      |
| High thunderstorm winds downed many trees and power lines in the county. No injuries were reported.  |                 |     |    |   |   |   |   |  |                           |
| Sauk County  | 03 1930CST      |     |    |   |   |   |   |  | Funnel Cloud, Hail, Wind  |
| Funnel cloud spotted near Spring Green by State Patrol. Large hail and high winds were also reported.  |                 |     |    |   |   |   |   |  |                           |
| Sauk County  | 03 1945CST      |     |    |   |   |   |   |  | Funnel Cloud              |
| Funnel cloud was sighted 4 to 5 miles north of Mirror Lake.  |                 |     |    |   |   |   |   |  |                           |
| Kewaunee County  | 03 2030CST      |     |    | 0 | 0 | 5 | ? |  | Wind                      |
| Destructive downburst winds struck the village of Luxemburg, breaking windows and toppling trees. One-half mile northeast of Luxemburg, the high winds damaged a home and garage. Across the road, winds demolished a 20 x 45 foot garage.   |                 |     |    |   |   |   |   |  |                           |
| Dodge County   | 03 2030CST      |     |    | 0 | 0 | 5 | ? |  | Wind                      |
| High winds from thunderstorms struck the Fox Lake area, uprooting trees, knocking down lights, power lines and damaging houses. At 2053CST, 60 mph winds were reported at Beaver Dam.  |                 |     |    |   |   |   |   |  |                           |
| Rock County  | 03 2044CST      | ?   | ?  | 0 | 0 | ? | ? |  | Tornado (F1)              |
| A tornado was spotted by Beloit police in east Beloit moving southeast.  |                 |     |    |   |   |   |   |  |                           |
| Fond du Lac County   | 03 2044CST      |     |    | 0 | 0 | 4 | ? |  | Wind                      |
| Thunderstorm winds downed many trees in the county, especially in Brandon and west of the city of Fond du Lac.   |                 |     |    |   |   |   |   |  |                           |
| Manitowoc County   | 03 2100CST      |     |    | 0 | 0 | 4 | ? |  | Wind                      |
| Thunderstorm winds downed many trees throughout the county. Two cars were damaged by falling trees.  |                 |     |    |   |   |   |   |  |                           |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE               | DATE  | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM   |
|---------------------|---|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|----------------------|
|                     |   |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                      |
| <b>— WISCONSIN</b>  |   |                       |                        |                       |                |         |                  |       |                      |
| Walworth County     | 03  | 2205CST               |                        |                       | 0              | 8       | 5                | ?     | Winds                |
|                     | Thunderstorm winds collapsed a tent at a Lake Geneva civic outing injuring 8 persons with mainly cuts, bruises and burns. At least 5 cars were damaged by falling trees. A motel and home were also damaged by toppled trees.   |                       |                        |                       |                |         |                  |       |                      |
| Wood County         | 03  | 2214                  |                        |                       | 0              | 0       | 3                | 0     | Electrical           |
|                     | Lightning damaged a home in Wisconsin Rapids.   |                       |                        |                       |                |         |                  |       |                      |
| Racine County       | 03  | 2305CST               | 1/4                    | 20                    | 0              | 0       | 4                | 0     | Tornado (F1)         |
|                     | A tornado touched down in Raymond Township, twisting a tree and ripping siding off of a house.  |                       |                        |                       |                |         |                  |       |                      |
| Southeast Wisconsin | 03  | 1800-2330CST          |                        |                       |                |         |                  |       | Wind                 |
|                     | Other counties in the southeast half of Wisconsin did receive tree damage and power outages, though specific reports were not received.   |                       |                        |                       |                |         |                  |       |                      |
| Trempealeau County  | 17  | 1600CST               |                        |                       | 0              | 0       | 3                | 3     | Wind                 |
|                     | Isolated heavy thunderstorms with strong winds downed trees and damaged crops in the Whitehall area. A home was damaged in Pigeon Falls.  |                       |                        |                       |                |         |                  |       |                      |
| Jackson County      | 17  | 1645CST               |                        |                       | 0              | 0       | 0                | 0     | Funnel Cloud         |
|                     | Three funnel clouds were reported near Alma Center.   |                       |                        |                       |                |         |                  |       |                      |
| Vernon County       | 17  | 1830CST               |                        |                       | 0              | 0       | 3                | 0     | Electrical           |
|                     | Several lightning strikes knocked down trees in Westby and heavy rains washed out some road shoulders.  |                       |                        |                       |                |         |                  |       |                      |
| Dane County         | 17  | 2015-2115CST          |                        |                       | 0              | 2       | 5                | ?     | Electrical, Wind     |
|                     | Strong thunderstorm winds toppled a cement block wall under construction in Sun Prairie and up-rooted trees in the area. Lightning knocked out power in parts of the city of Madison. Two barns were destroyed near east Bristol and many trees downed. Two men were injured by lightning in downtown Madison.  |                       |                        |                       |                |         |                  |       |                      |
| Jefferson County    | 17  | 2145CST               |                        |                       | 0              | 0       | 4                | ?     | Wind                 |
|                     | Thunderstorm winds knocked down many trees and damaged a car in Watertown. Trees and power lines were reported down in Ft. Atkinson area.   |                       |                        |                       |                |         |                  |       |                      |
| Walworth County     | 17  | 2230CST               |                        |                       | 0              | 0       | 3                | 3     | Wind                 |
|                     | Trees and power lines were knocked down in Whitewater from strong thunderstorm winds. Several cornfields were damaged in La Grange area.  |                       |                        |                       |                |         |                  |       |                      |
| Kenosha County      | 18  | 0128CST               |                        |                       | 0              | 0       | 3                | 0     | Electrical           |
|                     | Lightning struck a lodge on Powers Lake resulting in a fire that caused \$1500 in damages.  |                       |                        |                       |                |         |                  |       |                      |
| Kenosha County      | 18  | 0154CST               |                        |                       | 0              | 0       | 4                | 0     | Electrical           |
|                     | Lightning struck a television aerial and traveled into the home starting a two-story fire in Pleasant Prairie. Approximately \$5000 in damages.   |                       |                        |                       |                |         |                  |       |                      |
| Crawford County     | 18  | 1300CST               |                        |                       | 0              | 0       | ?                | ?     | Wind                 |
|                     | Winds in excess of 60 mph and trees down were reported by the Crawford County Sheriff.  |                       |                        |                       |                |         |                  |       |                      |
| Rock County         | 18  | 1608CST               |                        |                       | 0              | 0       | 4                | 0     | Electrical           |
|                     | Lightning struck an 80 foot barn in rural Janesville causing a fire which burnt it to the ground. Damage estimated at \$15,500.   |                       |                        |                       |                |         |                  |       |                      |
| Walworth County     | 18  | 1625CST               |                        |                       | 0              | 0       | ?                | ?     | Wind                 |
|                     | 70 mph wind gusts were reported during heavy thunderstorms.   |                       |                        |                       |                |         |                  |       |                      |
| <b>— WISCONSIN</b>  |   |                       |                        |                       |                |         |                  |       |                      |
| Much of Wisconsin   | 19  | 1500-2100CST          |                        |                       |                |         |                  |       | Thunderstorm Complex |
|                     | A large thunderstorm complex began to move into northwest Wisconsin from Minnesota. The thunderstorm complex expanded and intensified as it moved to the east-southeast at about 50 mph. The complex generated intense downburst winds through out the state with scattered tornadoes reported. The following is a listing of the reports and damages by county, moving from west to east across the state.   |                       |                        |                       |                |         |                  |       |                      |
| Polk County         | 19  | 1515CST               |                        |                       | 0              | 0       | 6                | ?     | Wind                 |
|                     | Intense thunderstorms with strong downburst winds toppled hundreds of trees and 8,000 acres of corn was flattened. Numerous homes and vehicles were damaged by falling trees. Several mobile homes were reported damaged in Amery, Clear Lake, and south of Cushing. Several barns damaged or destroyed in the Centuria area and in the Amery area. Extensive lakefront damage with several boats overturned in Pike Lake. No injuries reported. Total damage estimates for the county at around \$5 million. |                       |                        |                       |                |         |                  |       |                      |
| St. Croix County    | 19  | 1530CST               |                        |                       | 0              | 0       | ?                | ?     | Wind                 |
|                     | Downburst winds up to 100 mph reported at Baldwin with many trees toppled and farm buildings damaged. Several cottages on Lake Wapogasset damaged with boats overturned and some docks lost.  |                       |                        |                       |                |         |                  |       |                      |
| Pierce County       | 19  | 1540CST               |                        |                       | 0              | 0       | ?                | ?     | Wind                 |
|                     | Strong thunderstorm winds caused much tree damage in River Falls with scattered power outages. A late model car was flipped onto its top 5 miles south of River Falls.  |                       |                        |                       |                |         |                  |       |                      |
| Barron County       | 19  | 1545CST               |                        |                       | 0              | 0       | ?                | ?     | Wind, electrical     |
|                     | Thunderstorm winds over 75 mph downed many trees through out the county. Hardest hit was Prairie Farm with several trees blocking roads. A silo was damaged and lightning struck and damaged a house. An airplane hangar was blown down at the Chetek Airport. Power lines and poles reported down from New Auburn to Hayward.  |                       |                        |                       |                |         |                  |       |                      |
| Dunn County         | 19  | 1600CST               |                        |                       | 0              | 0       | ?                | ?     | Wind, electrical     |
|                     | Thunderstorm winds over 80 mph downed many trees through out the county. A barn roof was taken off by strong winds and power poles downed around Colfax. A house was struck by lightning and the resulting fire caused \$20,000 in damages.   |                       |                        |                       |                |         |                  |       |                      |
| Rusk County         | 19  | 1615CST               |                        |                       | 0              | 0       | ?                | ?     | Wind                 |
|                     | Many trees reported downed by strong thunderstorm winds.  |                       |                        |                       |                |         |                  |       |                      |
| Chippewa County     | 19  | 1620CST               |                        |                       | 0              | 0       | ?                | ?     | Wind                 |
|                     | Severe tree damage reported in Bloomer from strong thunderstorm winds. A barn destroyed in Bloomer Township. Winds over 63 mph damaged 14 residences and 5 businesses in the Town of Hallie. Estimated damages were around \$88,000.  |                       |                        |                       |                |         |                  |       |                      |
| Eau Claire County   | 19  | 1630CST               |                        |                       | 0              | 0       | 7                | ?     | Electrical, wind     |
|                     | Wind gusts to 63 mph recorded at the Eau Claire Airport. Many trees downed through out the county. Lightning struck a propane truck at a large building supply and lumber yard starting a blaze that destroyed the structure and inventory. Losses estimated at \$10 million.   |                       |                        |                       |                |         |                  |       |                      |
| Buffalo County      | 19  | 1639CST               |                        |                       | 0              | 0       | ?                | ?     | Funnel cloud, wind   |
|                     | Strong thunderstorm winds downed many trees through out the county. A funnel cloud was sighted by the Sheriff's Department 2 miles north of Alma, it did not touch down.  |                       |                        |                       |                |         |                  |       |                      |
| Trempealeau County  | 19  | 1730CST               |                        |                       | 0              | 0       | ?                | ?     | Wind                 |
|                     | A fast moving thunderstorm with wind gusts to 70 mph knocked down trees and power lines in Ettrick. Many trees reported down through out the county, especially in Galesville and Arcadia. Marble size hail reported at Ettrick.  |                       |                        |                       |                |         |                  |       |                      |
| Clark County        | 19  | 1650CST               |                        |                       | 0              | 0       | 4                | ?     | Wind                 |
|                     | A large barn was destroyed by strong thunderstorm winds just south of Thorp.  |                       |                        |                       |                |         |                  |       |                      |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE             | DATE  | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------------------|---|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|                   |   |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |
| <b>WISCONSIN</b>  |   |                       |                        |                       |                |         |                  |       |                    |
| Clark County      | 19  | 1655CST               | 1                      | 200                   | 0              | 0       | ?                | ?     | Tornado (F1)       |
|                   | A tornado touched down at a farm, 7 miles south of Thorp, ripping the top off of a barn and cutting a silo in half. Also destroyed were a chicken shed, pig house, heifer shed and farm machinery.  |                       |                        |                       |                |         |                  |       |                    |
| Clark County      | 19  | 1730CST               |                        |                       | 0              | 0       | ?                | ?     | Wind               |
|                   | Widespread tree damage in the Towns of Levis and Dewhurst and east of Lake Arbutus from strong thunderstorm winds. Also damaged were boat houses and cottages on Lake Arbutus.  |                       |                        |                       |                |         |                  |       |                    |
| Jackson County    | 19  | 1730CST               |                        |                       | 0              | 0       | ?                | ?     | Wind               |
|                   | Strong thunderstorm winds downed trees through out the county. Several homes damaged by winds and falling trees.  |                       |                        |                       |                |         |                  |       |                    |
| LaCrosse County   | 19  | 1720CST               |                        |                       | 0              | 0       | ?                | ?     | Wind               |
|                   | At 1720CST, thunderstorm winds recorded at up to 72 mph at the Downtown LaCrosse Weather Service Office. A large sign was blown onto a truck. Many trees were reported down along with wide-spread power outages. At 1734CST, a wind gust to 76 mph was recorded at the Weather Service Office in LaCrosse.   |                       |                        |                       |                |         |                  |       |                    |
| Crawford County   | 19  | 1845CST               |                        |                       | 0              | 0       | ?                | ?     | Wind               |
|                   | The Crawford County Sheriff reported winds to 60 mph with many trees and power lines through out the county.  |                       |                        |                       |                |         |                  |       |                    |
| Marathon County   | 19  | 1740CST               |                        |                       | 0              | 0       | ?                | ?     | Wind               |
|                   | Strong thunderstorm winds caused wide-spread tree damage and damaged signs in the Mosinee area. Heavy rains fell in Mausau with water up to 3 feet deep in parts of the city.   |                       |                        |                       |                |         |                  |       |                    |
| Marathon County   | 19  | 1813CST               |                        |                       | 0              | 0       | 0                | 0     | Funnel cloud       |
|                   | A funnel cloud was reported in the Town of Kronenwetter.  |                       |                        |                       |                |         |                  |       |                    |
| Marathon County   | 19  | 1824CST               |                        |                       | 0              | 0       | 0                | 0     | Funnel cloud       |
|                   | A funnel cloud was reported 1/2 mile north of Brokaw along Highway 51.  |                       |                        |                       |                |         |                  |       |                    |
| Marathon County   | 19  | 1925CST               |                        |                       | 0              | 6       | 5                | 0     | Wind               |
|                   | A second line of intense thunderstorms developed about one hour after a previous line of very heavy thunderstorms had gone through the Town of Weston area. At 1925CST, strong downburst winds at over 80 mph struck the Colonial Garden Trailer Court in the Town of Weston. 23 mobile homes were blown over and 6 persons were injured. In addition, 38 other residences were damaged in the Town of Weston. The 61 residences suffered \$210,000 in damages. 3 industries had \$16,000 in damages and one farm had a barn destroyed with \$35,000 in losses. Damage to public property put at \$66,000. Total for the storm were estimated at \$292,000.   |                       |                        |                       |                |         |                  |       |                    |
| Wood County       | 19  | 1750CST               |                        |                       | 0              | 3       | ?                | ?     | Wind, funnel cloud |
|                   | At 1750CST, 2 funnel clouds were spotted 5 miles west of Wisconsin Rapids. Strong thunderstorm winds damaged a mobile home near Nekoosa at 1754CST. A funnel cloud was sighted in the Town of Saratoga near the Wood and Portage county line at 1802CST. Several garages, houses and mobile homes were damaged by strong winds. 3 people were injured when their mobile home "blew up" in the Town of Saratoga.   |                       |                        |                       |                |         |                  |       |                    |
| Monroe County     | 19  | 1800CST               |                        |                       | 0              | 0       | ?                | ?     | Wind               |
|                   | Many trees and power lines down through out the county due to strong thunderstorm winds. In Tonah, winds tore the roof off of a store. Heavy tree damage was reported in Sparta.  |                       |                        |                       |                |         |                  |       |                    |
| Monroe County     | 19  | 2320CST               |                        |                       | 0              | 0       | ?                | ?     | Hail, wind         |
|                   | The Monroe County Sheriff reported 3/4 inch hail at 2320CST and golf ball size hail at 2328CST. At 2345CST, a cornfield was reported flattened by hail and strong winds, 5 miles west of Sparta.  |                       |                        |                       |                |         |                  |       |                    |
| <b>WISCONSIN</b>  |   |                       |                        |                       |                |         |                  |       |                    |
| Sauk County       | 19  | 1815CST               |                        |                       | 0              | 0       | ?                | ?     | Wind               |
|                   | Strong thunderstorm winds downed trees and power lines through out the county, especially in Baraboo and Reedsburg. 60 mph winds were at Lake Delton.   |                       |                        |                       |                |         |                  |       |                    |
| Grant County      | 19  | 1845CST               |                        |                       | 0              | 0       | ?                | ?     | Wind               |
|                   | A house was significantly damaged by a huge tree in the Boscobel area and the roof was blown off of the office of Midwest Silo. Many trees in the county were damaged by the strong thunderstorms.  |                       |                        |                       |                |         |                  |       |                    |
| Lafayette County  | 19  | 1945CST               |                        |                       | 0              | 1       | ?                | ?     | Electrical, wind   |
|                   | Lightning struck and injured one person. Strong thunderstorm winds downed many trees and power lines in the county.   |                       |                        |                       |                |         |                  |       |                    |
| Waushara County   | 19  | 1845CST               |                        |                       | 0              | 0       | ?                | ?     | Wind               |
|                   | 70 mph were reported by Coloma police.  |                       |                        |                       |                |         |                  |       |                    |
| Marquette County  | 19  | 1853CST               |                        |                       | 0              | 0       | ?                | ?     | Wind               |
|                   | Strong thunderstorms downed many trees in the county and a barn was blown down 5 miles south-east of Montello.  |                       |                        |                       |                |         |                  |       |                    |
| Green Lake County | 19  | 1910CST               |                        |                       | 0              | 0       | ?                | ?     | Wind               |
|                   | Strong thunderstorms winds caused wide-spread tree damage in the county, especially around Green Lake. A car was crushed by a falling tree at Green Lake.   |                       |                        |                       |                |         |                  |       |                    |
| Columbia County   | 19  | 1903CST               |                        |                       | 0              | 0       | ?                | ?     | Wind, funnel cloud |
|                   | Strong thunderstorm winds downed trees through out the county and damaged several houses 2 miles east of Portage. One house had losses set at \$70,000. At 1904CST, a funnel cloud was reported near Columbus. A barn was also damaged 1/2 mile north of River Falls.   |                       |                        |                       |                |         |                  |       |                    |
| Dane County       | 19  | 1900CST               |                        |                       | 0              | 0       | ?                | ?     | Wind               |
|                   | At 1900CST, wind gusts to 60 mph were reported by WISC-TV on the west side of Madison. The storm roared into Madison, damaging several buildings at the University of Wisconsin Campus. Second and third story windows were blown out of the Helen C. White Library. Boats and piers on the campus shoreline on Lake Mendota were damaged by the strong winds and waves. Estimated damage to the campus was set at about \$75,000. A portion of a roof on a hangar was lost at the Wisconsin Air National Guard at Traux Field. Strong thunderstorm winds damaged a partially constructed factory-warehouse and blew the roof off of a barn near Sun Prairie. A tree was also toppled onto a house. In Bristol, the roof was blown off of a barn. |                       |                        |                       |                |         |                  |       |                    |
| Green County      | 19  | 1935CST               |                        |                       | 0              | 0       | ?                | ?     | Wind               |
|                   | Winds estimated at well over 50 mph blew out windows at St. Clare Hospital in Monroe. Several cars were damaged by falling trees and trees downed many power lines. In Monroe, a house was damaged by a tree.   |                       |                        |                       |                |         |                  |       |                    |
| Shawano County    | 19  | 1830CST               |                        |                       | 0              | 0       | ?                | ?     | Wind               |
|                   | Wide-spread tree damage in the county due to strong thunderstorms winds, especially in the Shawano Lake area.   |                       |                        |                       |                |         |                  |       |                    |
| Waupaca County    | 19  | 1900CST               |                        |                       | 0              | 0       | ?                | ?     | Wind               |
|                   | Wide-spread tree damage in the county due to strong thunderstorm winds, especially in the Town of Waupaca.  |                       |                        |                       |                |         |                  |       |                    |
| Outagamie County  | 19  | 1910CST               |                        |                       | 0              | 0       | ?                | ?     | Wind               |
|                   | Thunderstorm winds estimated at 60 mph tore the roof off of a house.  |                       |                        |                       |                |         |                  |       |                    |
| Winnebago County  | 19  | 1900CST               |                        |                       | 0              | 0       | ?                | ?     | Wind               |
|                   | Strong thunderstorm winds were reported at between 67 and 80 mph in the Neenah area. Many trees and power lines were reported down.   |                       |                        |                       |                |         |                  |       |                    |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE              | DATE  | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM  |
|--------------------|---|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|---|
|                    |   |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |   |
| <b>WISCONSIN</b>   |   |                       |                        |                       |                |         |                  |       |   |
| Fond du Lac County | 19  | 1850CST               |                        |                       | 0              | 6       | ?                | ?     | Wind  |
|                    | Severe thunderstorms roared through the county with wind gusts up to 80 mph. Hardest hit was Ripon where there was extensive tree damage, window breakage and electrical outages. Damage to the Ripon College campus was estimated at \$10,000. The roof was blown off the water filtering building in Ripon with damage estimates at \$5,000. The intense downburst winds also damaged 50 gravestones. 6 persons were injured in Ripon. As the thunderstorms moved to the east, a 40X80 foot barn in Eldorado was heavily damaged. Also a garage and workshop were reported damaged in Eldorado and a 500 gallon gas tank was ruptured. North of Fond du Lac, a large portion of a house roof was removed and several cars were damaged or crushed by trees. At Mount Calvary, a farm was badly damaged when strong winds flattened a barn and shed, killing several pigs. In the Town of Ashford, nearly every residence received some form of wind damage. |                       |                        |                       |                |         |                  |       |   |
| Dodge County       | 19  | 1906CST               |                        |                       | 0              | 0       | ?                | ?     | Wind, funnel cloud  |
|                    | At 1906CST, a funnel cloud was spotted near Beaver Dam. At 1910CST, thunderstorm winds up to 73 mph were reported at Beaver Dam. At Lowell, a tree was blown onto a truck. A barn and two sheds were damaged near Hustiford. At 1930CST, a barn was blown down in Rubicon and 2 corn cribs ripped out.  |                       |                        |                       |                |         |                  |       |   |
| Dodge County       | 19  | 1930CST               |                        |                       | 0              | 0       | ?                | ?     | Tornado (F1)  |
|                    | A tornado touched down in the Town of Ashippun. House and barn damaged.   |                       |                        |                       |                |         |                  |       |   |
| Jefferson County   | 19  | 1920CST               |                        |                       | 0              | 0       | ?                | ?     | Wind  |
|                    | Severe thunderstorms with strong downburst winds blew the roof off of a farm co-op building near Johnson Creek. In Watertown, a flat copper roof was blown off of a restaurant. A tractor was crushed by a falling tree in Milford. Trees were damaged in Fort Atkinson and one vehicle and 3 homes were damaged by falling trees. Winds estimated at 80 mph toppled a barn southeast of Helenville doing about \$60,000 damage. 64 mph winds were reported at Palmyra at 1946CST.  |                       |                        |                       |                |         |                  |       |   |
| Jefferson County   | 19  | 1949CST               |                        |                       | 0              | 0       | 0                | 0     | Funnel cloud  |
|                    | A funnel cloud was sighted 1 mile north of Palmyra.   |                       |                        |                       |                |         |                  |       |   |
| Rock County        | 19  | 1950CST               |                        |                       | 0              | 0       | ?                | ?     | Wind  |
|                    | Severe thunderstorms with intense downburst winds were clocked at 75 mph at the Rock County Airport. At 2000CST, winds up to 75 mph were recorded at Beloit. A 100X35 foot barn was blown down east of Beloit and a tree fell onto a house in Beloit, punching a hole through the roof and into the living room. At 2007CST, winds estimated at 100 mph were reported south of Janesville. At Clinton, a 36X80 foot barn was flattened by strong winds. There was much tree and power line damage through out the county.   |                       |                        |                       |                |         |                  |       |   |
| Calumet County     | 19  | 1925CST               | 2                      | 100                   | 0              | 0       | 5                | ?     | Tornado (F1)  |
|                    | A tornado touched down near Stockbridge Harbor smashing a shed roof. It moved to the east, damaging two homes near Lake Shore Drive. It then turned to the east-southeast damaging two garages and a barn on Military Road. Finally, it moved to Hickory Hill Road where the roof on a mobile home was destroyed and a nearby home was damaged. There were no injuries. Damage was estimated at between \$54,000 and \$100,000.   |                       |                        |                       |                |         |                  |       |   |
| Calumet County     | 19  | 1940CST               |                        |                       | 0              | 0       | ?                | ?     | Wind  |
|                    | A barn was blown down south of Hilbert. Strong winds damaged a home in New Holstein.  |                       |                        |                       |                |         |                  |       |   |
| Manitowoc County   | 19  | 2000CST               |                        |                       | 0              | 0       | 6                | 4     | Wind  |
|                    | Severe thunderstorms with intense downburst winds estimated at between 80 to 100 mph. A downburst swath measured 10 miles long and 1 mile wide across the southern section of the county and included the townships of Eaton, Meeme, Liberty, Newton and Centerville. Damage was inflicted on 10 dwellings and 50 farm buildings. Several calves were killed and crop damage was estimated at \$29,000. Property damage was estimated at \$1,325,000. In addition, a freight train was derailed 2 miles north of  |                       |                        |                       |                |         |                  |       |   |
| <b>WISCONSIN</b>   |   |                       |                        |                       |                |         |                  |       |   |
|                    |   |                       |                        |                       |                |         |                  |       | Cleveland. A flat car containing 2 truck trailers and two other freight cars were blown off the tracks. |
| Sheboygan County   | 19  | 2000CST               |                        |                       | 0              | 0       | ?                | ?     | Wind  |
|                    | Severe thunderstorms with strong downburst winds flipped one airplane over at the Sheboygan County Airport. Two homes were damaged by falling trees were estimated at \$6,500. A barn roof was damaged and a 4,000 pound horse trailer was overturned. A barn was destroyed and a house damaged in Sheboygan Falls. High winds blew down numerous trees in the City of Plymouth and 20 percent of the city lost it's power.   |                       |                        |                       |                |         |                  |       |   |
| Washington County  | 19  | 1930CST               |                        |                       | 0              | 0       | ?                | ?     | Funnel cloud, wind  |
|                    | A funnel cloud was sighted on the east side of West Bend at County Highway M and Decorah Road. A barn was damaged southwest of Hartford and another to the north of West Bend. At 1948CST, extensive tree damage was reported at Neosho.  |                       |                        |                       |                |         |                  |       |   |
| Ozaukee County     | 19  | 1947CST               |                        |                       | 0              | 0       | ?                | ?     | Wind  |
|                    | Strong thunderstorm winds blew down a garage wall in Port Washington. Also a large machinery shed and its contents were destroyed for a loss of \$30,000. At 1951CST, 60 mph winds were reported 1 mile east of Cedarburg.  |                       |                        |                       |                |         |                  |       |   |
| Waukesha County    | 19  | 1930CST               |                        |                       | 0              | 1       | ?                | ?     | Wind  |
|                    | A 16 year old girl was injured when a tree was blown onto her in Oconomowoc. Also the upper floor of an apartment building under construction was blown down in Oconomowoc and a fallen tree did \$30,000 damage to a home. In Dousman, high winds peeled off 600 square feet of roofing from a plumbing building. Extensive tree damage was reported in the Town of Delafield and in the Pewaukee Lake area. At 1951CST, intense downburst winds roared through a Lisbon subdivision damaging 24 homes and destroying a garage. A mobile home was blown onto it's side 20 feet from the foundation. Damage in the subdivision was estimated at \$200,000.  |                       |                        |                       |                |         |                  |       |   |
| Waukesha County    | 19  | 1945CST               |                        |                       | 0              | 0       | 0                | 0     | Funnel cloud  |
|                    | A funnel cloud was spotted northwest of the City of Waukesha.   |                       |                        |                       |                |         |                  |       |   |
| Waukesha County    | 19  | 2005CST               |                        |                       | 0              | 0       | 0                | 0     | Funnel cloud  |
|                    | A funnel cloud was reported on the southwest side of Menomonee Falls.   |                       |                        |                       |                |         |                  |       |   |
| Milwaukee County   | 19  | 1958CST               |                        |                       | 0              | 0       | ?                | ?     | Wind  |
|                    | Scattered tree damage and power outages reported through out the county. Wind gusts were generally around 50 mph.   |                       |                        |                       |                |         |                  |       |   |
| Walworth County    | 19  | 1952CST               |                        |                       | 0              | 0       | ?                | ?     | Wind  |
|                    | Wind gusts from thunderstorms were reported at 50 mph at Delavan. Home, garage and barn roofs were damaged by trees in East Troy. Minor tree damage and scattered power outages were reported in Burlington, Waterford and Tichigan.  |                       |                        |                       |                |         |                  |       |   |
| Racine County      | 19  | 2015CST               |                        |                       | 0              | 0       | ?                | ?     | Wind  |
|                    | Thunderstorm winds over 50 mph were reported 5 miles east of Burlington, Windlake and north of the City of Racine.  |                       |                        |                       |                |         |                  |       |   |
| Racine County      | 19  | 2017CST               |                        |                       | 0              | 0       | 0                | 0     | Funnel cloud  |
|                    | A funnel cloud was reported at Highway 45 and Highway 6.  |                       |                        |                       |                |         |                  |       |   |
| Racine County      | 19  | 2023CST               |                        |                       | 0              | 0       | 0                | 0     | Funnel cloud  |
|                    | A funnel cloud was reported by the County Sheriff at Highway 45 in the Town of Cape.  |                       |                        |                       |                |         |                  |       |   |
| Dane County        | 20  | 1530CST               |                        |                       | 0              | 0       | 5                | 0     | Wind  |
|                    | Strong thunderstorm winds blew down a motel under construction. Damage estimates were \$60,000 to \$90,000.   |                       |                        |                       |                |         |                  |       |   |
| Rock County        | 20  | 1608CST               |                        |                       | 0              | 0       | ?                | ?     | Wind  |
|                    | Thunderstorm wind gusts to 67 mph were recorded at the Rock County Airport in Janesville.   |                       |                        |                       |                |         |                  |       |   |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |

## WISCONSIN

|  |    |         |  |  |   |   |   |   |                        |
|--|----|---------|--|--|---|---|---|---|------------------------|
| Door County  | 21 | 0730CST |  |  | 0 | 0 | ? | ? | Wind                   |
| Dowrburst gusts to 115 mph were reported at the Coast Guard Station on Washington Island off the tip of Door County.   |    |         |  |  |   |   |   |   |                        |
| Langlade County  | 21 | 1500CST |  |  | 0 | 0 | ? | ? | Wind                   |
| Heavy thunderstorms moved into Langlade County downing trees and power lines.  |    |         |  |  |   |   |   |   |                        |
| Langlade County  | 21 | 1530CST |  |  | 0 | 0 | 5 | 0 | Electrical             |
| Lightning struck two houses in the city of Antigo at approximately the same time. One home suffered a fire loss in the attic while the other home was completely destroyed.  |    |         |  |  |   |   |   |   |                        |
| Winnebago County   | 21 | 1624CST |  |  | 0 | 0 | 4 | ? | Wind, Hail, Electrical |
| Wind gusts to 60 mph and one inch hail were reported in Winnebago. Lightning sent a tree crashing into a home in Winnebago, caving in the roof and cracking a wall. In the town of Poygan, a tree limb was blown onto a van. |    |         |  |  |   |   |   |   |                        |
| Winnebago County   | 21 | 1641CST |  |  | 0 | 0 | ? | ? | Wind, Hail             |
| Wind gusts to 60 mph and 3/4 inch hail were reported in Oshkosh.   |    |         |  |  |   |   |   |   |                        |
| Fond du Lac County   | 21 | 1730CST |  |  | 0 | 0 | ? | ? | Wind                   |
| Extensive tree damage was reported in the Waupun area.   |    |         |  |  |   |   |   |   |                        |
| Winnebago County   | 21 | 1730CST |  |  | 0 | 0 | 4 | 0 | Electrical             |
| Lightning struck a bank building starting a roof fire in Neenah.   |    |         |  |  |   |   |   |   |                        |
| Washington County  | 28 | 0230CST |  |  | 0 | 0 | 5 | 0 | Electrical             |
| Lightning struck and killed 12 cows near Highway 60 in Hartford. The bolt killed 10 cows under a tree then jumped 35 yards to another tree and killed 2 more cows.   |    |         |  |  |   |   |   |   |                        |
| Winnebago County   | 28 | 1330CST |  |  | 0 | 0 | 4 | 0 | Electrical             |
| Lightning struck the chimney on the Winnebago Central School, sending bricks through the school roof.  |    |         |  |  |   |   |   |   |                        |
| Brown County   | 29 | 0330CST |  |  | 0 | 0 | 4 | 0 | Electrical             |
| Lightning struck and damaged a factory chimney in Green Bay.   |    |         |  |  |   |   |   |   |                        |
| Crawford County  | 29 | 0330CST |  |  | 0 | 0 | 4 | 0 | Electrical             |
| A 72 x 34 foot barn near Soldiers Grove was burned to the ground after being struck by lightning. Eight calves and heifers were killed and equipment was lost.   |    |         |  |  |   |   |   |   |                        |
| Manitowoc County   | 29 | 0630CST |  |  | 0 | 0 | 4 | 0 | Electrical             |
| A 33 x 100 foot two-story barn in the Whitelaw area was destroyed after lightning started a fire. 60 tons of hay and farm equipment was lost.  |    |         |  |  |   |   |   |   |                        |

## 48 WYOMING

|  |    |                |  |  |   |   |   |   |            |
|--|----|----------------|--|--|---|---|---|---|------------|
| Yellowstone Park   | 02 | Late Afternoon |  |  | 0 | 3 | 4 | 0 | High Winds |
| Strong thunderstorms ripped through the park, producing winds gusting to 60 mph and blowing down numerous trees. A few trees fell onto vehicles causing injury to 3 people. Widespread rock and mud slides also blocked a few roads.   |    |                |  |  |   |   |   |   |            |
| Teton, Lincoln and Sublette Counties   | 06 | 1700-2000MST   |  |  | 1 | 1 | 5 | 0 | High Winds |
| A line of thunderstorms roared through western Wyoming, churning up wind gusts of up to 90 mph. One person was killed and another injured when a wind-toppled tree fell on them in Palisades, west of Jackson. Most of the damage occurred in the Pinedale and Big Piney areas where large uprooted trees fell on houses, vehicles, and power lines. |    |                |  |  |   |   |   |   |            |
| Yellowstone Park   | 14 | 1700-1900MST   |  |  | 0 | 0 | 3 | 0 | High Winds |
| Two thunderstorms from Idaho merged into one strong storm over western sections of the park. Winds gusted up to 60 mph, blowing down numerous trees and damaging a few trailers.   |    |                |  |  |   |   |   |   |            |

## WYOMING

|   |       |              |     |        |   |   |   |   |                       |
|---|-------|--------------|-----|--------|---|---|---|---|-----------------------|
| Sheridan, Sheridan County   | 14    | 1900MST      |     |        | 0 | 0 | 1 | 0 | High Winds            |
| Thunderstorm winds of up to 60 mph downed several power lines in the Sheridan vicinity.   |       |              |     |        |   |   |   |   |                       |
| Central Niobrara County   | 16    | 1700-1900MST |     |        | 0 | 0 | 3 | 2 | Hail, High Winds      |
| Hail up to 2 inches in diameter pounded the Lance Creek-Hat Creek area, damaging some ranch buildings. Winds also gusted up to 60 mph in the thunderstorm.  |       |              |     |        |   |   |   |   |                       |
| SF Campbell, Weston Counties  | 17    | 0000-0100MST | 1-2 | 50-100 | 0 | 0 | 4 | 3 | Tornado (F1) and Hail |
| A very late-forming thunderstorm spawned a short-lived tornado that damaged a large metal building on a ranch just east of Wright in Campbell County. As the storm moved east, it dropped golf ball and baseball sized hail in southern Weston County, causing damage to a few houses and some crops.   |       |              |     |        |   |   |   |   |                       |
| Fort Laramie, Goshen County   | 17    | 1600MST      |     |        | 0 | 0 | 2 | 2 | Hail                  |
| Hail 2 to 3 inches in diameter pelted the Fort Laramie area, causing minor damage to crops and cars.  |       |              |     |        |   |   |   |   |                       |
| Norland, Washakie County  | 19    | 1550MST      |     |        | 0 | 0 | 3 | 0 | High Winds            |
| Thunderstorm winds of up to 65 mph knocked down several tree limbs and power lines in the Norland vicinity. A few houses and cars were damaged.   |       |              |     |        |   |   |   |   |                       |
| Pine Bluffs, Laramie County   | 22    | 1730MST      |     |        | 0 | 0 | 5 | 4 | Hail                  |
| A hailstorm lasting up to 45 minutes pounded the Pine Bluffs area with golf ball sized hail. Extensive damage occurred to houses, vehicles, and crops.  |       |              |     |        |   |   |   |   |                       |
| Converse, Platte, and Laramie Counties  | 22-23 | 1800-0300MST |     |        | 0 | 0 | 5 | 3 | Flash Flooding        |
| Heavy thunderstorms, sitting almost stationary on the east slopes of the Laramie Range for hours, caused widespread flash flooding along the creeks and streams draining eastward across the high plains. As much as 4 to 6 inches of rain fell in some areas. A few highway bridges were heavily damaged and some ranches suffered damage to roads, bridges, and irrigation systems. The worst flash floods occurred along Crow Creek near Cheyenne where a mobile home court was evacuated and southwest of Douglas near the La Prele Reservoir where an aqueduct carrying runoff collapsed over a creek, sending a 10-15 foot high wall of water through a nearby ranch complex. |       |              |     |        |   |   |   |   |                       |
| NE Wyoming: Sheridan, Campbell, Crook, and Weston Counties  | 29    | 1400-1900MST |     |        | 0 | 0 | 3 | ? | High Winds, Hail      |
| Severe thunderstorms raked much of northeast Wyoming with hail and high winds. Sundance had 2-inch hail that caused damage to cars. A little later golf ball sized hail fell just north of Sheridan, while the area just east of Gillette had 60 mph winds which downed trees and ripped off a few roofs in Rozet.  |       |              |     |        |   |   |   |   |                       |
| Saratoga, Carbon County   | 30    | 1630MST      |     |        | 0 | 1 | 2 | 0 | Lightning, Heavy Rain |
| A teenage girl was struck by lightning during a thunderstorm that drenched Saratoga with over 2 inches of rain. Some minor flooding occurred to houses and businesses.  |       |              |     |        |   |   |   |   |                       |

## 49 ALASKA, Northern

|  |    |              |  |  |   |   |   |   |                                       |
|--|----|--------------|--|--|---|---|---|---|---------------------------------------|
| Koyukuk Valley   | 01 | Late evening |  |  | 0 | 0 | 6 | 0 | Heavy Thunderstorm and flash flooding |
| Satellite imagery showed an unusually intense mesoscale convective cloud cluster in the Koyukuk Valley on the evening of July 1. A flash flood on the Nutirvik River (67°55'N, 149°40'W) totally washed away a bridge on the Pipeline Haul Road, closing it to traffic. One truck was damaged. The Nutirvik basin is roughly 50 square miles in size.  |    |              |  |  |   |   |   |   |                                       |
| Koyukuk Valley Northwest Upper Yukon Valley  | 02 | late evening |  |  | 0 | 0 | 3 | 0 | Heavy Thunderstorm and flash flooding |
| The area of thunderstorms from the previous evening resumed on the evening of July 2 in the Koyukuk Valley. Lightning detection equipment picked up 2,300 strikes on July 2. Based on convincing synoptic data and satellite imagery, it is very probable that local heavy rain and flash flooding occurred in small watersheds in the thunderstorm areas. Six people who were rafting on the Middle Fork of the Chandalar River were stranded for 4 days after a reported flash flood swept their raft and all their supplies away. |    |              |  |  |   |   |   |   |                                       |



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1983

| PLACE  | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM            |
|--|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|-------------------------------|
|  |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                               |
| <b>ALASKA, Northern</b>  |      |                       |                        |                       |                |         |                  |       |                               |
| Tanana Valley  | 11   | evening               |                        |                       | 0              | 0       | 0                | 0     | Heavy Rain and flash flooding |
| Over an inch of rain fell at Big Delta in the 24-hour period ending at 2000 AST July 11. Light north winds aloft presumably resulted in heavier rainfall on the north slopes of the Alaska Range. A motorist reported heavy rain from Paxson to Black Rapids, driving north on the Richardson Highway. The motorist reported that water was over the road at Black Rapids. No damage, however, was reported. |      |                       |                        |                       |                |         |                  |       |                               |
| Fairbanks  | 31   | 1300-1400<br>AST      |                        |                       | 0              | 0       | 0                | 0     | Funnel Clouds                 |
| Heavy rainshowers in conjunction with a moist, unstable airmass over the Tanana Valley spawned 2 funnel clouds just south of Fairbanks. The clouds came close to approaching the ground. No damage was reported. Winds near the clouds were estimated at less than 35 miles an hour.   |      |                       |                        |                       |                |         |                  |       |                               |
| 49 <b>ALASKA, Southern</b> ————— NONE REPORTED   |      |                       |                        |                       |                |         |                  |       |                               |
| 49 <b>ALASKA, Southeastern</b> ————— NONE REPORTED   |      |                       |                        |                       |                |         |                  |       |                               |
| 50 <b>HAWAII</b> ————— NONE REPORTED   |      |                       |                        |                       |                |         |                  |       |                               |
| 51 <b>PUERTO RICO</b> ————— NONE REPORTED  |      |                       |                        |                       |                |         |                  |       |                               |
| 52 <b>VIRGIN ISLANDS</b> ————— NONE REPORTED   |      |                       |                        |                       |                |         |                  |       |                               |
| 53 <b>PACIFIC</b> ————— NONE REPORTED  |      |                       |                        |                       |                |         |                  |       |                               |



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

## LATE REPORTS

## LATE REPORTS

| PLACE  | DATE   | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM  |
|--|--|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|---|
|  |  |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |   |
| <b>16 LOUISIANA</b>  |  |                       |                        |                       |                |         |                  |       |   |
| APRIL 1983   |  |                       |                        |                       |                |         |                  |       |   |
| Caddo Parish   | 01   | 1350CST               |                        |                       |                |         |                  |       | Funnel Cloud<br>A funnel cloud was reported over Shreveport. There was no known damage.   |
| Caddo and Bossier Parishes                                   | 01   | 1400CST               |                        |                       | 3              | 5       |                  |       | SVR TSTM<br>A large severe thunderstorm struck the Shreveport and Bossier City area accompanied by winds estimated near 80 mph and hail ranging from 1 to 2 inches in diameter. Damage was widespread with power poles sheared off and many trees uprooted. Also, minor damage was noted to numerous homes and automobiles. There were at least 3 persons injured by flying debris.   |
| Webster Parish   | 01   | 1430CST               | ?                      | ?                     |                |         | 4                |       | Tornado (F1)<br>SVR TSTM<br>A severe thunderstorm struck the town of Minden and was accompanied by .75 inch diameter hail and 90 mph winds. Widespread damage to trees, roofs, and power lines resulted. Also, a tornado touched down briefly about a mile north of Minden but damage was confined to mainly trees.   |
| Sabine and Natchitoches Parishes                             | 01   | 1440-1530CST          |                        |                       |                |         | 6                |       | SVR TSTM<br>A severe thunderstorm struck Many in Sabine Parish at 1440CST and was accompanied by hail .75 inch in diameter. This storm struck Natchitoches in Natchitoches Parish about 40 minutes later and was accompanied by hail 1.5 inches in diameter and 60 mph winds. Widespread damage to cars, homes, trees, and power lines resulted. Damage was estimated at \$600,000.   |
| Union and Ouachita Parishes                                  | 01   | 1610CST               |                        |                       |                |         | ?                |       | SVR TSTM<br>A severe thunderstorm moved through the southern part of Union Parish and the extreme northern part of Ouachita Parish. Hail 1.5 inches in diameter was reported from the town of Sterlington to 10 miles north of Sterlington. The extent of hail damage was not reported.   |
| Ouachita and Moorehouse Parish                               | 01   | 1615-1640CST          | 9                      | 1000                  | 2              | 20      | 6                |       | Tornado (F4)<br>A severe thunderstorm struck Monroe at 1615CST and was accompanied by 1.5 inch diameter hail and high winds. A funnel cloud was observed northeast of Monroe and first touched ground as a tornado about 10 miles northeast of Monroe. The tornado was described by observers as a large gray mass rather than having a distinct funnel. The tornado moved northeast striking the town of Collinston at 1635CST. Two persons were killed and 20 were injured as 34 houses were destroyed along its path. Large hail was reported to occur along and to the north of the tornado track. The tornado dissipated a short distance northeast of Collinston. |
| Caldwell Richland Franklin Madison and East Carroll Parishes | 01   | 1635-1750CST          |                        |                       |                |         | 8                | 6     | Tornadoes<br>SVR TSTM<br>A severe thunderstorm began in Caldwell Parish near Columbia and moved northeast producing 4 tornadoes along a 55 mile long path. The tornadoes are described in detail below.   |
|  | 01   | 1645CST               | 6                      | 250                   | 0              | 0       |                  |       | Tornado (F3)  |
|  | 01   | 1725CST               | 3                      | 150                   | 0              | 0       |                  |       | Tornado (F3)  |
|  | 01   | 1745CST               | 4                      | 150                   | 0              | 0       |                  |       | Tornado (F3)  |
|  | Tornado 1- This tornado (F3) touched down just northeast of Columbia and moved northeast striking the town of Hebert at 1645CST. Several homes and a church were destroyed. The path length was 6 miles and path width was 250 yards. There no injuries or deaths reported.  |                       |                        |                       |                |         |                  |       |   |
|  | Tornado 2- This tornado (F3) initially touched down at Baskin in Franklin Parish and moved northeast for a distance of 21 miles and struck the Delhi airport in Richland Parish. A total of 6 homes and 1 mobile home were destroyed and 4 persons were injured. At the Delhi airport 16 aircraft, 3 hangers, and two small buildings were destroyed. The path length was 21 miles and the path width varied from 100 to 500 yards wide. |                       |                        |                       |                |         |                  |       |   |
|  | Tornado 3- The third tornado (F3) touched down at Waverly at 1725CST in Madison Parish and struck a large grain elevator complex. Destruction was complete. The path length was 3 miles and path width was 150 yards. There were no known injuries or deaths.  |                       |                        |                       |                |         |                  |       |   |
|  | Tornado 4- The fourth tornado (F3) touched down 4 miles southwest of Sondheimer in East Carroll Parish at 1745 CST and moved to the city of Sondheimer before lifting. Seven homes and numerous outbuildings were either damaged or destroyed. The path length was 4 miles and path width was 150 yards. No injuries or deaths.  |                       |                        |                       |                |         |                  |       |   |
| Beauregard Parish  | 01   | 1645CST               |                        |                       |                |         | 4                |       | SVR TSTM<br>A severe thunderstorm struck DeRidder with 60 mph winds which caused damage to trees and power lines.   |

| PLACE                        | DATE   | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM   |
|------------------------------|--|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--|
|                              |  |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |  |
| <b>LOUISIANA</b>             |  |                       |                        |                       |                |         |                  |       |  |
| Tensas Parish                | 01   | 1800CST               | 7                      | ?                     |                |         | 5                |       | Tornado (F2)<br>A tornado touched down on the Concordia-Tensas Parish line near highway 65. The tornado moved northeast for a distance of 7 miles to the community of Waterproof. A total of 5 homes were either damaged or destroyed.   |
| Catahoula Parish             | 01   | 1810CST               |                        |                       |                |         | 4                |       | SVR TSTM<br>A severe thunderstorm struck the extreme eastern portion of Catahoula Parish. Winds estimated near 80 mph downed power lines and unroofed two houses.  |
| Madison Parish               | 05   | 1400CST               |                        |                       |                |         |                  |       | Hail<br>A thunderstorm produced hail 1 inch in diameter 8 miles southwest of Tallulah. There was no reported damage.   |
| St. Landry Parish            | 05   | AFTN                  |                        |                       |                |         | 4                |       | SVR TSTM<br>Large hail and damaging winds accompanied a severe thunderstorm that moved through the Eunice area. Damage to automobiles was noted and many trees were uprooted. One house was severely damaged by winds estimated at 80 mph just east of Eunice.   |
| Winn Parish                  | 05   | 1510CST               |                        |                       |                |         | ?                |       | SVR TSTM<br>Hail 1.5 inches in diameter and high winds were reported 6 to 8 miles north of Winnfield. The extent of damage is unknown.   |
| Jackson Parish               | 05   | 1520CST               |                        |                       |                |         |                  |       | SVR TSTM<br>Hail .75 inch in diameter and strong winds were reported in the Jonesboro-Hodge area. There was no known damage.   |
| Bienville Parish             | 05   | 1530CST               |                        |                       |                |         |                  |       | Hail<br>Hail 1 inch in diameter was reported at Danville as a thunderstorm moved across that town. There was no reported damage.   |
| Lincoln Parish               | 05   | 1540CST               |                        |                       |                |         |                  |       | Hail<br>Hail 1 inch in diameter and strong winds were reported 5 miles northeast of Ruston. Extent of damage unknown.  |
| Union Parish                 | 05   | 1550CST               |                        |                       |                |         | ?                | ?     | Hail<br>Hail 2 inches in diameter was reported 5 miles southwest of Farmerville. Extent of damage unknown.   |
| Southeast Louisiana Parishes | 05-10  |                       |                        |                       |                |         | 6                | ?     | 8<br>Heavy Rain/<br>Severe Flooding<br>An extreme rainfall event occurred over Southeast Louisiana beginning on the 5th and ending on the 7th but the subsequent flooding continued through the 10th. Rivers at many locations exceeded the floods of record by as much as several feet. The total flood damage was estimated near 500 million dollars. A total of 6 persons were killed (all in automobiles), an unknown number were injured, and 23,000 were evacuated. Of the 23,000 evacuated, at least 1,000 were rescued as flash flooding occurred. |
|                              | The rains began the evening of the 5th in the central portion of Louisiana from near Alexandria to Baton Rouge. Rainfall amounts were generally in the 5 to 8 inch range. Approximately 50 homes received minor water damage near Alexandria.  |                       |                        |                       |                |         |                  |       |  |
|                              | On the 6th, the rains spread into the southeast sections of the state. The area from Baton Rouge to Franklinton in Washington Parish received rainfall totals of 10 to 13 inches. Severe flooding began on the Amite, Comite, Tickfaw, Tangipahoa, and Pearl Rivers. Road closures numbered in the hundreds and at least a dozen bridges were washed away. Approximately 5,000 buildings were eventually flooded along with thousands of automobiles. There were 4 deaths recorded in Tangipahoa Parish and 2 deaths in St. Helena Parish due to flash flooding. The cities most greatly effected by flooding were Denham Springs, Baton Rouge, Covington, and Franklinton. Flood waters overtopped Interstate 10 for a short time near Denham Springs.  |                       |                        |                       |                |         |                  |       |  |
|                              | On the early morning of the 7th, the heavy rains moved into the Slidell-New Orleans area. Again rainfall amounts exceeded 10 inches over an 8 hour period with the heaviest rain falling on the downtown New Orleans area. The largest amount reported was about 16.5 inches but this was an unofficial report. The resulting flood was the worst since Hurricane Betsy in 1965. The entire metropolitan area was flooded with water ranging from a few inches deep to as much as 8 feet deep. The number of buildings receiving water damage numbered in the thousands and the number of automobiles having water damage was above 10,000. About 90 percent of the city streets were closed due to high water and this included Interstate 10 which passes through New Orleans. All phone service in the New Orleans area was disrupted for a period of 22 hours. The National Weather Service in Slidell was without service for much of the 22 hour period. |                       |                        |                       |                |         |                  |       |  |
|                              | Although the rains ended on the 7th, widespread flooding continued through the 10th. The Pearl River crested in Slidell almost 10 feet above flood stage flooding many residential areas just east of Slidell.   |                       |                        |                       |                |         |                  |       |  |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

## LATE REPORTS

## LATE REPORTS

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |

### LOUISIANA

|   |            |           |     |  |   |   |   |  |   |
|---|------------|-----------|-----|--|---|---|---|--|---|
| Jeff Davis Parish                           | 06 2210CST |           |     |  |   |   |   |  | Hail<br>A severe thunderstorm produced hail 1.5 inches in diameter at Welsh. No damage was reported.  |
| Acadia Parish                               | 07 0839CST | short 100 |     |  | ? |   |   |  | Tornado (F1)<br>The Louisiana State Police reported a tornado developed just south of Church Point moved a short distance and dissipated. There was no known damage.  |
| Sabine Parish                               | 22 1620CST |           |     |  |   |   |   |  | Hail<br>A severe thunderstorm produced hail .75 inch in diameter for a short time in Many. Only minor damage to trees was reported.   |
| Natchitoches Parish                         | 22 1705CST |           |     |  |   |   |   |  | Hail<br>A severe thunderstorm moved across the town of Provencal and produced hail .75 inch in diameter. Only minor damage to vegetation was reported.  |
| LaFouche Parish                             | 22 1810CST | 1         | 50  |  |   | 4 |   |  | Tornado (F1)<br>A small tornado was observed by law enforcement personnel to touch down at the community of Raceland. One home sustained major damage before the tornado lifted.  |
| Caddo and Bossier Parishes                  | 22 1920CST |           |     |  |   |   | 5 |  | Hail/High Wind<br>A severe thunderstorm moved across the Shreveport and Bossier City area and was accompanied by hail up to 1 inch in diameter and winds gusting in excess of 50 mph. One report of hail 2 inches in diameter was received from the town of Belcher in Bossier Parish. The damage was relatively minor but widespread. Most of the damage was confined to roofs, autos, and trees.      |
| Jefferson Parish                            | 22 1915CST | 2         | 100 |  |   | 3 | 5 |  | Tornado (F2)<br>A tornado accompanying a severe thunderstorm touched down briefly in Marrero, a suburb of New Orleans. A restaurant and 4 homes were severely damaged and 3 persons were injured by flying debris. Also, an 18 wheeler was overturned. It is possible the tornado path was longer than 2 miles, but a survey is impossible because the storm was over the swamps until it hit the town. |
| Orleans, Jefferson and St. Charles Parishes | 22 1920CST |           |     |  |   |   | 4 |  | Heavy Rain<br>Heavy thunderstorms moved across the New Orleans area and produced rainfall amounts averaging 3 to 4 inches with isolated 6 inch amounts in less than 2 hours. Widespread urban flooding resulted with most of the damage being confined to automobiles. There were no injuries or deaths.  |
| DeSoto Parish                               | 22 2015CST |           |     |  |   |   | 4 |  | SVR TSTM<br>A severe thunderstorm moved across DeSoto Parish and was accompanied by high winds and large hail. The hail averaged .75 inch in diameter. There were isolated reports of damage at both Logansport and Stonewall.  |
| Webster Parish                              | 22 2017CST |           |     |  |   |   | ? |  | SVR TSTM<br>A severe thunderstorm moved across Webster Parish producing hail .75 inch in diameter at Cotton Valley. Wind damage to trees was also reported near Cotton Valley.  |
| St. Bernard Parish                          | 22 2110CST | ?         | 50  |  |   |   | 4 |  | Tornado (F1)<br>A tornado touched down at Hopedale in the eastern portion of St. Bernard Parish. It destroyed 70 boatsheds several small buildings and several automobiles. There were no deaths or injuries.   |

### LOUISIANA

|                         |            |  |  |  |  |   |   |  |  |
|-------------------------|------------|--|--|--|--|---|---|--|--|
| Calcasieu Parish        | 18 1440CST |  |  |  |  |   |   |  | Funnel Cloud<br>A funnel cloud was reported by a helicopter pilot to the east of the Lake Charles airport. No damage was reported.   |
| Iberia Parish           | 18 1800CST |  |  |  |  | 1 | 4 |  | High Wind<br>A severe thunderstorm struck the town of New Iberia causing damage to trees and roofs. One person was injured when a tree fell on a car.  |
| Vermillion Parish       | 23 1340CST |  |  |  |  |   |   |  | Funnel Clouds<br>The sheriff dept. in Vermillion Parish sighted funnel clouds to the south of Gueydan and South of Wright. No damage reported.   |
| East Baton Rouge Parish | 25 1330CST |  |  |  |  |   | 4 |  | SVR TSTM<br>Funnel Cloud<br>A severe thunderstorm struck the eastern portion of Baton Rouge and was accompanied by hail the size of golfballs and strong gusty winds. Minor tree and power line damage was reported. A funnel cloud was reported in the area and 2.5 inches of rain was recorded in 30 minutes during the storm. |
| Cameron Parish          | 25 1400CST |  |  |  |  |   |   |  | Funnel cloud<br>A funnel cloud was reported near the Gran Lake Bridge. No damage was reported.   |
| Caddo Parish            | 25 1930CST |  |  |  |  |   | 5 |  | High Wind<br>A thunderstorm accompanied by high winds struck an area on Highway 1 just north of Shreveport. Four homes received minor damage and a number of trees were uprooted.  |
| Lincoln Parish          | 25 1950CST |  |  |  |  |   | 4 |  | Lightning<br>One home was damaged when struck by lightning.  |
| Livingston Parish       | 26 1135CST |  |  |  |  |   |   |  | Funnel Cloud<br>A funnel cloud was observed by the Louisiana State Police south of Livingston near Interstate 12. No damage was reported.  |
| Orleans Parish          | 26 1330CST |  |  |  |  |   |   |  | Waterspout<br>A waterspout was observed by FAA personnel on Lake Pontchartrain about 10 miles northwest of Lakefront Airport.  |
| Lafayette Parish        | 27 1945CST |  |  |  |  |   |   |  | Funnel Cloud<br>What was described as a large funnel cloud was reported just south of Lafayette. No damage was reported.   |
| St. Martin Parish       | 27 1950CST |  |  |  |  |   | 5 |  | Lightning<br>Lightning struck a sawmill in St. Martinville and caused a fire that did an estimated \$450,000 in damage.  |

### 17 MAINE

JUNE 1983

### JUNE 1983

|                        |            |    |    |  |  |  |   |  |   |
|------------------------|------------|----|----|--|--|--|---|--|---|
| Caddo Parish           | 06 0300CST |    |    |  |  |  | 5 |  | Lightning<br>Lightning struck a home in the Garden Acres subdivision in Shreveport, completely destroying it. Value of house and contents destroyed was \$97,000. |
| Iberia Parish          | 15 1153CST |    |    |  |  |  | 5 |  | Lightning<br>Lightning struck a large home causing severe damage to the structure and contents.   |
| Calcasieu Parish       | 16 1105CST |    |    |  |  |  |   |  | Funnel Cloud<br>A funnel cloud was sighted just south of the Lake Charles airport. No damage reported.  |
| Allen Parish           | 16 1730CST | .5 | 50 |  |  |  | ? |  | Tornado (F0)<br>A small tornado touched down in a wooded area about 10 miles southeast of Oberlin. No significant damage was reported.                            |
| Jefferson Davis Parish | 16 1730CST |    |    |  |  |  |   |  | Funnel Cloud<br>A funnel cloud was observed to dip down a number of times about 2 miles north of Jennings. No damage was reported.                                |
| Cameron Parish         | 16 1915CST |    |    |  |  |  |   |  | Funnel Cloud<br>A funnel cloud was reported about 1 mile north of Cameron. No damage was reported.  |

|   |            |  |  |  |  |   |   |   |   |  |
|---|------------|--|--|--|--|---|---|---|---|--|
| Waldo County  | 07 1230EST |  |  |  |  | 0 | 0 | 4 | 0 | Lightning<br>Thunderstorms moving across the state produced a lightning strike in Waldo which killed a Jersey heifer and caused a fire in a nearby shed. The shed burned to the ground and contained stored corn and grass seed. The house attached to the shed received minor damage to the kitchen.  |
| Clinton, Oakland, Waterville, Kennebec County; Otisfield, Waterford, Oxford County; Bridgton, Cumberland County; Fairfield, Somerset County           | 13 1400EST |  |  |  |  |   | 0 | 0 | 6 | ? Severe thunderstorms<br>Severe thunderstorms rumbled across the state Monday afternoon. The hardest hit area was Clinton where tennis ball size hail ripped 5 to 6 inch holes through the wings, and smashed out the windshields of more than ten airplanes parked at a rural airstrip. Also at the airstrip, the roof of a house trailer caved in. The hail in Clinton also caused heavy damage to automobiles, knocked out the windows of seven houses on one street, and completely stripped the paint off a fence. In Waterville, 3/4 inch hail shattered much of the glass on a greenhouse, and near Waterville, pea size hail accumulated 2 to 3 inches on the ground. In Bridgton, one inch hail, strong winds, and very heavy rains produced minor cellar flooding. Large hail, size unknown, fell in Otisfield and Waterford, knocking out telephone and power lines. In Oakland, lightning struck and killed a pony. Another lightning strike caused a fire which did extensive damage to a garage in Fairfield. |
| Baxter State Park, Brownville Junction, Guilford, Piscataquis County; West Parsonfield, Newfield, Waterboro, York County; St. Albans, Somerset County | 14 1500EST |  |  |  |  | 0 | 0 | 5 | ? | Severe Thunderstorms<br>Severe afternoon thunderstorms again plagued the state. Guilford reported wind gusts to 66 mph accompanied by 3/4 to one inch hail. Large hail, size unknown, and high winds were also reported at Chimney Pond in Baxter State Park, at Brownville Junction, and at Newfield. In Waterboro and West Parsonfield, 3/4 inch hail fell and 35 mph wind gusts were reported in Waterboro. Winds took down trees and power lines in St. Albans.  |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

## LATE REPORTS

## LATE REPORTS

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |

### MAINE

West Paris, Woodstock County; Weld, Franklin County  
 15 Afternoon 0 0 4 0 Thunderstorms  
 Slow moving thunderstorms produced heavy rains which washed out many roads in Weld, as well as in the West Paris-Woodstock-Bryant Pond area. Lightning splintered trees and hit a TV antenna on a West Paris home, burning the TV cable and a beam in the basement. Limbs and a few trees were felled by wind, impeding travel and causing minor power outages.

### 27 NEW HAMPSHIRE

#### JUNE 1983

Sanbornton, Belknap County; Hampton Beach, Rockingham County  
 13 1800EST 0 0 5 0 Lightning  
 A 50x35 foot equipment shed in Sanbornton exploded into flames when hit by lightning and burned to the ground. The blaze destroyed \$70,000 worth of hay and corn cutting and gathering equipment, a small bulldozer and 1,000 bales of straw. Meanwhile, another bolt of lightning knocked out the Hampton Beach Police Station's communications console, which took a few days to restore to full operational status.

Stoddard, Cheshire County  
 14 1400EST 0 0 4 ? Severe thunderstorm  
 The combination of golf ball size hail and strong winds, broke windows, severely dented cars, and tore down trees and limbs. Power was lost to 200 Sanbornton residents for several hours.

Lancaster, Coos County  
 15 1730EST 0 0 4 0 Heavy Rain  
 A slow moving thunderstorm produced heavy rains in Lancaster and turned a meek no-name brook into a raging river. The flooding brook washed out some town roads, tore two porches away from apartments and a small bridge over the brook has to be replaced.

Dalton, Coos County  
 16 1700EST 0 0 4 0 Violent Thunderstorm  
 The Cushman section of Dalton was struck by a violent thunderstorm which produced hail, size unknown, that covered the ground; heavy rain, estimated at 3 to 4 inches an hour, undermined roadbeds; and high winds snapped or felled trees, cutting power lines in the area.

Tilton, Belknap County  
 25 Daytime 0 0 4 0 High Winds  
 A cold front swept through New England Friday night and a strong northwest flow developed behind the front during Saturday. In Tilton, winds estimated at 40mph, toppled an 80-foot high poplar tree which crushed a car, canoe, and snowmobile. Several minor power outages were reported through the day as felled limbs and wind-toppled trees raised havoc with power lines in Belknap County.

### 30 NEW YORK, Western

#### MAY 1983

Sherman, Chautauqua Lake Shores, Ellery, Gerry, & Sinclairville, in Chautauqua County  
 02 1605EST 28 450 2 ? 6 0 Tornado (F3)  
 A tornado touched down near Sherman and moved east northeast over Chautauqua Lake, Sinclairville, and Cherry Creek. The path was almost a straight WSW to ENE orientation, 28 miles long. The width varied from 1/8 to 1/4 mile. On the first 10 miles of its path, it stayed mostly on the ground and skipped more often during the rest. Its speed along its path was 45 MPH. From the damage, the circulation was cyclonic.

Many eyewitnesses saw a huge and a small funnel. The small funnel trailed the main one on a short distance to one side. An eyewitness said that these funnels seemed to occasionally split and merge.

Two women were killed. One was in a home that collapsed. The other sought shelter in a car in a garage. Both car and garage were blown off. Their respective husbands who were with them were critically injured.

Many suffered minor injuries. Damage to over 100 structures ranged from minor to total destruction. Hundreds of trees uprooted.

The Governor of New York declared the above towns in Chautauqua County disaster areas.

Towns of Orchard Park & East Aurora, Erie County  
 02 1230EST 0 ? 3 0 Hail & Wind  
 A severe thunderstorm dropped hail, 3/4 to 1 inch in diameter. This was accompanied by strong winds.

Pine City, Chemung County  
 02 1905EST 0 ? 3 0 Hail  
 A severe thunderstorm unloaded golf-sized hail that accumulated to 6 inches deep.

### NEW YORK, Western

Town of Chemung, Chemung County,  
 02 1915EST 15 300 0 ? 6 0 Tornado (F3)  
 A tornado struck the junction of Wyncoop Creek and Hilliker Roads, 2 miles north of Route 17 in the town of Chemung. There, it demolished several homes, shattered 9 trailer homes, and injured 6 persons.

The Governor of New York declared damaged area in Chemung County a disaster area.

Meridian, Cayuga County; Baldwinsville, Plainville & Clay in Onondaga County  
 02 2015EST 20 200 1 ? 6 0 Tornado (F3)  
 A trailer home in Meridian, along Route 370, Cayuga County, was struck by a tornado. It was torn off its moorings, shattered and scattered across a field. Its occupant was killed.

The tornado moved east, occasionally lifting to treetop level and only breaking tree branches. At about 2018EST, at the Onondaga County line, near Plainville, it leveled a barn and a house.

At about 2020EST, the tornado struck Seneca Estates, 2 miles west of Baldwinsville. It stripped the second floor of a two story home.

At about 2029EST, the tornado reached the Town of Clay. It destroyed 3 homes and heavily damaged 6 others. There were minor injuries.

The Governor of New York declared the damaged areas in Cayuga and Onondaga County disaster areas.

Phoenix, Oswego County  
 02 2029EST 3 150 0 ? 5 0 Tornado (F3)  
 A tornado destroyed a lumberyard in Phoenix. Power lines snapped. A transformer fell on two model homes and started a fire. Roofs of 2 structures were blown away.

The Governor of New York declared Phoenix a disaster area.

### 35 OREGON

#### FEBRUARY 1983

South Central Oregon  
 11 0 0 4 ? High Winds  
 Josephine County  
 16-18 0 ? 5 ? Flooding  
 Curry County  
 16-18 0 ? 5 ? Flooding

#### MARCH 1983

Harney County  
 Month long 0 ? [ 6 ] Flooding  
 Flooding occurred due to snowmelt and heavy rains.  
 Brookings  
 22 1725PST .1 50 0 0 4 0 Tornado (F0)  
 A tornado damaged mobile homes.

#### APRIL 1983

Washington County  
 30 1530PST 0 1 ? ? Flooding  
 A heavy thundershower with lightning caused local flooding.

#### JUNE 1983

Island City, 3NE of LaGrande in Union County  
 21 1415PST ? ? 0 0 3 0 Tornado (F0)  
 NW of Bend in Deschutes County  
 22 1125PST ? 20 0 0 3 0 Tornado (F0)  
 LaPine in Deschutes County  
 26 1600PST 0 0 ? ? Hailstorm  
 Mile-wide, 12 inch deep swath of hail for nearly 3 miles around LaPine.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

## LATE REPORTS

## LATE REPORTS

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |

### 41 TEXAS, Northern

APRIL 1983

|   |    |                     |   |   |   |    |   |   |            |  |
|---|----|---------------------|---|---|---|----|---|---|------------|--|
| North Texas   | 1  | Early AM<br>Late PM |   |   | 3 | 16 | 6 | ? | Winds      |  |
| <p>An intense low pressure system in Oklahoma, along with a trailing cold front extending into Texas, moved rapidly eastward during the day. The thunderstorms along the front produced widespread reports of pea to marble size hail and brief heavy rains. However, the passage of the cold front brought strong west winds, with sustained speeds of 40 MPH or more throughout nearly all of North Texas. Peak wind reports of 60 to 70 MPH at Weather Service Offices and airports were common, with an 89 MPH gust reported by a Wichita Falls TV station. Other peak gusts included 72 MPH at the Temple Airport, 67 MPH at Wichita Falls Weather Service Office, 65 MPH at Dyess Air Force Base, 61 MPH at Weather Service Office Abilene, and 55 MPH at Dallas/Fort Worth Airport.</p> <p>The first of three deaths occurred in Dallas at 0640 CST, when a man chasing his hat fell 45 feet from an overpass. At 1000 CST, a man trying to repair wind-damaged power lines at Fort Hood was electrocuted. At Hillsboro in Hill County, winds blew off the roof of a garage building, injuring a woman. At 1740 CST, winds blew a wall of the building onto a car with four occupants who were inspecting the previous damage. One person died and two were injured.</p> <p>In addition to the three deaths, at least 16 persons were known to have been injured by flying debris ranging from glass windows to signs to mobile homes being blown over.</p> <p>Power lines were downed over the area affecting thousands of customers. Crews were hampered in restoring power by continued high winds. The downed lines also started numerous small grass and forest fires.</p> <p>Since the damage was so widespread and numerous, only the more severe reports are included. Damage estimates placed the dollar figure in excess of \$1 million.</p> |    |                     |   |   |   |    |   |   |            |  |
| Denton County   | 1  | 1110CST             |   |   | 0 | 0  | ? | ? | Hail       |  |
| Storm spotter in Lewisville reported 1 inch hail.   |    |                     |   |   |   |    |   |   |            |  |
| Bowie County  | 1  | 1250CST             |   |   | 0 | 0  | ? | ? | Hail       |  |
| One inch hail and 60 MPH winds at New Boston.   |    |                     |   |   |   |    |   |   |            |  |
| Shelby County   | 1  | 1340CST             |   |   | 0 | 0  | ? | ? | Hail       |  |
| Three-fourths inch hail at Center.  |    |                     |   |   |   |    |   |   |            |  |
| Grayson County  | 13 | 0830CST             | ? | ? | 0 | 0  | 4 | 0 | Tornado F0 |  |
| A tornado touched down briefly and destroyed a barn between Whitesboro and Collinsville.  |    |                     |   |   |   |    |   |   |            |  |
| Tarrant County  | 22 | 1700CST             |   |   | 0 | 0  | 0 | 0 | Funnel     |  |
| Two National Weather Service employees observed a funnel over Benbrook for five minutes before it dissipated.   |    |                     |   |   |   |    |   |   |            |  |
| Wise, Tarrant, Denton, Collin & Rockwall Counties   | 22 | 1730CST-<br>1930CST |   |   | 0 | 0  | ? | 0 | Hail       |  |
| <p>A thunderstorm in eastern Wise County produced pea-size hail and heavy rains at 1730CST. As it moved east along the Tarrant/Denton county line, it turned southeast. Amateur radio spotters reported baseball size hail and a rotating wall cloud at 1740 CST northwest of DFW airport near South Lake. Amateur radio spotters at 1950 confirmed a funnel descending from the persistent wall cloud over northeast Dallas. One inch hail fell in Garland at 1955CST. At 1907CST golf ball hail fell in Rockwall.</p>   |    |                     |   |   |   |    |   |   |            |  |

### TEXAS, Northern

JUNE 1983

|  |    |                       |   |   |   |   |   |   |   |   |                  |
|--|----|-----------------------|---|---|---|---|---|---|---|---|------------------|
| Parker and Tarrant Counties  | 03 | 1653 cst-<br>1825 cst |   |   |   |   |   |   | ? | ? | Hail winds, rain |
| <p>1701 cst short narrow 0 0 0 0 Tornado F0<br/>1714 cst Funnel<br/>1740 cst short narrow 0 0 0 0 Tornado F0<br/>1747 cst 0.1 narrow 0 0 0 0 Tornado F0</p> <p>Spotters tracked a funnel across central Parker county to just east of Weatherford where it touched down briefly in a field at 1701cst. No apparent damage occurred before it lifted and disappeared into the parent cloud. A short time later at 1707cst, a rotating wall cloud became very apparent east of Weatherford and was tracked by spotters. At 1714cst a funnel, accompanied by golfball size hail, briefly emerged from the wall cloud but never touched down.</p> <p>The second tornado touched down briefly in open country at 1740cst in Parker county about 7 miles southwest of Azle. No damage was reported.</p> <p>At 1747cst, Benbrook Police reported a funnel over the city in southwest Tarrant county. A few minutes later an off-duty MWS employee photographed the brief touch down of the tornado in a field about 3 miles northeast of Benbrook Dam. Again, no damage was reported.</p> <p>Hail reports from pea to golfball size were scattered over a large part of both counties between 1700 and 1825cst, with most concentrated in the eastern portion of Parker and the western portion of Tarrant Counties.</p> <p>The largest hail report was 2 inches in diameter at Weatherford at 1710cst. Golfball size hail first occurred near Azle at 1653cst and again at 1745cst 10 miles south of Weatherford. In Tarrant county, golfball size hail fell at Benbrook at 1759cst. The southern sections of Fort Worth experienced this size hail at 1804 cst as the storm moved eastward.</p> <p>The only report of flooding came from southern Parker county in the Horseshoe Bend area at 1817cst where some low lying areas were briefly under water. Highest winds from the storms were placed at 70 mph with numerous trees and power lines downed in both counties.</p> |    |                       |   |   |   |   |   |   |   |   |                  |
| Eastland County  | 03 | 1711cst               |   |   |   |   |   |   |   |   | Funnel           |
| Department of Public Safety Troopers reported a funnel a few miles north-northeast of Rising Star. The funnel ascended into the parent cloud a few minutes later without touching down.  |    |                       |   |   |   |   |   |   |   |   |                  |
| Comanche County  | 03 | 1718cst short narrow  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Tornado F0       |
| Spotters near May tracked a funnel for a short time before it briefly touched down at 1718cst in a field. The debris cloud on the ground lasted for several minutes before the tornado lifted, but no damage occurred.   |    |                       |   |   |   |   |   |   |   |   |                  |
| Eastland County  | 03 | 1735cst short narrow  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Tornado F0       |
| A tornado touched down briefly near Carbon with no damage reported.  |    |                       |   |   |   |   |   |   |   |   |                  |
| Grayson County   | 03 | 1812cst               |   |   |   |   |   |   |   |   | Hail             |
| Golfball size hail was reported just east of Denison.  |    |                       |   |   |   |   |   |   |   |   |                  |
| Ellis County   | 03 | 1923cst-<br>2130cst   |   |   | 0 | 4 | 4 | 0 | 0 | 0 | Hail, winds      |
| <p>Golfball size hail was widespread over the county, falling first 3 miles south of Midlothian at 1923cst then at Waxahachie at 1934 cst. Just northwest of Maypearl at 1937cst golfball size hail and winds estimated at 75 mph struck, tearing the roof from a home and doing minor property damage.</p> <p>At approximately 2130 cst, winds placed at 50-60 mph overturned 2 mobile homes 8 miles east of Ennis. Although none of the injuries were serious, one person was trapped under a mobile home and had to be rescued. There was no thunderstorm at the site at that time. Apparently the winds came from a dying cell to the southeast.</p>   |    |                       |   |   |   |   |   |   |   |   |                  |
| Fannin County  | 03 | 1826cst-<br>1943cst   |   |   | 0 | 0 | ? | ? | ? | ? | Funnel, hail     |
| <p>Hail ranging in size from hen eggs to tennis balls were reported at 1858cst just northwest of Bonham. Earlier reports of golfball size were common as a thunderstorm entered the northwest part of the county just northwest of Ravenna. Spotters received marble size hail at 1943cst while tracking a funnel northwest of Bonham. The funnel did not touch down or cause any damage.</p>  |    |                       |   |   |   |   |   |   |   |   |                  |
| Johnson County   | 03 | 1908cst               |   |   | 0 | 4 | 5 | ? | ? | ? | Winds            |
| Winds 60 to 70 mph destroyed 7 mobile homes and damaged 2 others 1 1/2 miles east of Lillian. Four persons were injured, none seriously.   |    |                       |   |   |   |   |   |   |   |   |                  |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

## LATE REPORTS

## LATE REPORTS

| PLACE   | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM                   |
|---|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------------------------|
|   |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                                      |
|   |      |                       |                        |                       |                |         |                  |       |                                      |
| <b>TEXAS, Northern</b>  |      |                       |                        |                       |                |         |                  |       |                                      |
| Hill County   | 03   | 1930cst               |                        |                       | 0              | 0       | ?                | ?     | Hail                                 |
| Spotters reported golfball size hail 6 miles north-northwest of Itasca at 1930cst.  |      |                       |                        |                       |                |         |                  |       |                                      |
| Stephens County   | 03   | 2022cst               | short narrow           | 0                     | 0              | 0       | 0                | 0     | Tornado F0                           |
| A small tornado touched down briefly in a field about 12 miles north-northeast of Ranger. No damage was reported.   |      |                       |                        |                       |                |         |                  |       |                                      |
| Taylor County   | 04   | 1540cst-1630cst       |                        |                       | 0              | 0       | ?                | ?     | Hail                                 |
| Spotters reported golfball size hail in west Abilene at 1540cst. Scattered reports of hail across the city continued with the largest report of 2 inches in diameter at 1630cst.  |      |                       |                        |                       |                |         |                  |       |                                      |
| Wilbarger County  | 04   | 2000cst               |                        |                       | 0              | 0       | ?                | ?     | Wind                                 |
| Thunderstorm winds reaching 70 mph inflicted property damage 15 miles southwest of Vernon.  |      |                       |                        |                       |                |         |                  |       |                                      |
| Taylor, Jones, and Callahan Counties  | 05   | 1450cst               | short narrow           | 0                     | 0              | 4       | ?                | ?     | Tornado F0                           |
| 1500cst short narrow 0 0 0 0 Tornado F0   |      |                       |                        |                       |                |         |                  |       |                                      |
| 1505cst short narrow 0 0 0 0 Tornado F0   |      |                       |                        |                       |                |         |                  |       |                                      |
| 1540cst short narrow 0 0 0 0 Tornado F0   |      |                       |                        |                       |                |         |                  |       |                                      |
| 1545cst short narrow 0 0 0 0 Tornado F0   |      |                       |                        |                       |                |         |                  |       |                                      |
| 1610cst Funnel, hail  |      |                       |                        |                       |                |         |                  |       |                                      |
| 1615cst short narrow 0 0 5 ? Tornado F1   |      |                       |                        |                       |                |         |                  |       |                                      |
| 1620cst Funnel  |      |                       |                        |                       |                |         |                  |       |                                      |
| The first tornado touched down briefly near the intersection of Farm roads 2833 and 600 at 1450cst. The roof of one mobile home was removed with additional minor property damage.  |      |                       |                        |                       |                |         |                  |       |                                      |
| An off-duty NWS employee tracked the next tornado about 5 miles north-northwest of Merkel, or in Jones county. It lasted about 5 minutes and was visible as a vigorous dust whirl beneath the wall cloud. He then tracked the third tornado at 1505cst about 1 mile northwest of Merkel in Taylor county. It too was a vigorous dust whirl beneath the flanking line and lasted about 4 minutes in an open field. Neither did any apparent damage.  |      |                       |                        |                       |                |         |                  |       |                                      |
| At 1540cst another tornado touched down briefly in an open field between Wylie and Buffalo Gap in southern Taylor county. No damage was reported. This storm then traveled to the southeast into southern Callahan county where hail to grapefruit size was reported. It then spawned another tornado which touched down just east of Oplin, destroying a home and small building and damaging roofs and windows of several nearby homes. Crop damage estimates from the hail were not available, but local farm agents indicated the figures would be substantial. |      |                       |                        |                       |                |         |                  |       |                                      |
| Another tornado touched down briefly 10 miles northwest of Hawley at 1545cst in Jones county. There was no reported damage.   |      |                       |                        |                       |                |         |                  |       |                                      |
| DPS Troopers spotted a funnel and received large hail just east of Clyde in Callahan county at 1610cst. At 1620cst, spotters reported a funnel in the eastern section of the county.  |      |                       |                        |                       |                |         |                  |       |                                      |
| Brown County  | 05   | 1700cst               |                        |                       | ?              | ?       | ?                | ?     | funnel, hail, high winds, heavy rain |
| Golfball size hail fell over the Lake Brownwood area as a thunderstorm moved southeast. About 6 miles north of Brownwood, spotters reported a funnel which lasted about 5 minutes before receding into the parent cloud.  |      |                       |                        |                       |                |         |                  |       |                                      |
| In Brownwood, high winds estimated at 70 to 80 mph tore the roof from a church and downed trees and power lines. Heavy rains measuring 4.5 inches fell in a short time, causing some areas to experience flooding. The worst reported flooding was near Crossenor where a family was trapped for several hours on the roof of their home until the 3 feet deep waters receded.  |      |                       |                        |                       |                |         |                  |       |                                      |
| Mills County  | 05   | 1800cst               |                        |                       |                |         | 5                | ?     | winds                                |
| Thunderstorm winds nearly destroyed a home and a large barn 6 miles west of Goldwaithe. A nearby pecan orchard suffered the loss of approximately 100 trees due to the high winds.  |      |                       |                        |                       |                |         |                  |       |                                      |
| Montague County   | 05   | 1815cst               |                        |                       | ?              | ?       | ?                | ?     | hail                                 |
| Golfball size hail was reported in Henrietta.   |      |                       |                        |                       |                |         |                  |       |                                      |
| Wise, Cooke and Denton Counties   | 05   | 1900cst               |                        |                       | ?              |         | 6                |       | hail, winds                          |
| Thunderstorms cut a two mile wide swath through northeast Wise county into southern Cooke and northern Denton counties doing damage estimated at \$1 million to nearly 6000 acres of wheat and milo. Although hail to tennis ball size was reported at Slidell in Wise county, most of the hail was marble size. Highest winds were 60 mph.   |      |                       |                        |                       |                |         |                  |       |                                      |
| Jones County  | 05   | 1900cst-2200cst       |                        |                       | ?              | ?       | ?                | ?     | hail, winds                          |
| Hail as large as baseballs struck near Hodges in southern Jones county at 1900cst. High winds downed power lines and trees, damaging at least one mobile home. At 2200cst, baseball size hail struck Stamford, damaging numerous roofs and windows.   |      |                       |                        |                       |                |         |                  |       |                                      |

| PLACE   | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|---|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|   |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |
|   |      |                       |                        |                       |                |         |                  |       |                    |
| <b>TEXAS, Northern</b>  |      |                       |                        |                       |                |         |                  |       |                    |
| Shackelford County  | 05   | 2335cst               |                        |                       |                |         | ?                | ?     | hail, winds        |
| One inch hail destroyed approximately 100 acres of wheat and oats. Thunderstorm winds did scattered property damage and downed trees and power lines in the county.   |      |                       |                        |                       |                |         |                  |       |                    |
| Wilbarger County  | 13   | 1930cst-2140cst       |                        |                       | 0              | 3       | 4                | ?     | hail, winds        |
| Thunderstorm winds gusting to 65 mph downed power lines and trees and caused scattered property damage at 1930cst in Vernon. Later in the evening at 2140cst, another thunderstorm unroofed a small mobile home and part of a house, injuring three. Reports of golfball size hail were scattered throughout the county as were rainfall amounts generally over 2 inches.   |      |                       |                        |                       |                |         |                  |       |                    |
| Young County  | 13   | 2330cst-14 early am   |                        |                       | 0              | 0       | 4                | 0     | Heavy rain         |
| 6.2 inches rain fell in one hour and flooded low-lying areas of Olney. About 50 people were evacuated from their homes due to high waters, with several office buildings also sustaining damage due to drainage through the walls. Drain systems were unable to cope with the amount of rain water, causing it to pool on roofs and seep into walls.  |      |                       |                        |                       |                |         |                  |       |                    |
| Tarrant County  | 14   | 0600cst-0700cst       |                        |                       | 0              | 0       | 4                | 0     | Heavy rain         |
| Nearly stationary thunderstorms produced rainfall amounts over 4 inches in eastern Tarrant county. Some flooding occurred in low-lying areas along Johnson Creek in Arlington. Although their vehicle was destroyed, two persons escaped injury after attempting to drive across a bridge that was ten feet under water.  |      |                       |                        |                       |                |         |                  |       |                    |
| Navarro County  | 14   | 2210cst               |                        |                       |                |         | 5                | 0     | Lightning          |
| Lightning sparked three house fires in Corsicana with one home being totally destroyed. The two other homes' damage ranged from light to moderate.  |      |                       |                        |                       |                |         |                  |       |                    |
| Runnels County  | 16   | 1933cst               |                        |                       | ?              | ?       | ?                | ?     | Hail               |
| Golfball size hail fell 2 miles south of Winters.   |      |                       |                        |                       |                |         |                  |       |                    |
| Hardeman County   | 26   | 1500cst               |                        |                       | 0              | 0       | 5                | 6     | Winds              |
| Thunderstorm winds in excess of 60 mph destroyed several warehouses, damaged houses, mobile homes and heavily damaged approximately 10,000 acres of cotton. The crop loss accounted for most of the damage estimates, initially set in excess of \$1 million.   |      |                       |                        |                       |                |         |                  |       |                    |
| Haskell County  | 26   | 1600cst-1620cst       |                        |                       | 0              | 0       | 6                | ?     | Winds              |
| Thunderstorm winds downed power lines and trees and damaged house roofs, blew out store front windows in the city of Haskell, and caused extensive crop damage in the county. Initial estimates placed damages at \$1 million, excluding crop damage estimates.   |      |                       |                        |                       |                |         |                  |       |                    |
| Wilbarger County  | 26   | 1620cst               |                        |                       | 0              | 0       | 4                | ?     | Winds              |
| Thunderstorm winds in excess of 60 mph toppled the wall of an historic office building and caused extensive damage to several office buildings and homes in the city of Vernon.   |      |                       |                        |                       |                |         |                  |       |                    |
| Wichita County  | 26   | 1827cst               |                        |                       | 0              | 1       | 5                | 0     | Winds              |
| Thunderstorm winds clocked at 78 mph at the National Weather Service office in Wichita Falls, caused scattered property damage in the city. The roof was torn from a music company, causing water to inundate several hundred thousand dollars worth of instruments. At least two auto accidents were directly attributed to the high winds, with only one minor injury.  |      |                       |                        |                       |                |         |                  |       |                    |
| Hunt County   | 26   | 2230cst               |                        |                       | 0              | 0       | 4                | 0     | Lightning          |
| A house in Greenville was destroyed by fire after being struck by lightning.  |      |                       |                        |                       |                |         |                  |       |                    |
| Erath County  | 27   | 0330cst               |                        |                       | 0              | 0       | 4                | ?     | Winds              |
| Thunderstorm winds destroyed one mobile home and heavily damaged four others in western Erath county. In addition, numerous power lines were downed leaving 1400 customers without electricity for 3 hours.   |      |                       |                        |                       |                |         |                  |       |                    |
| Hardeman, Wilbarger and Wichita Counties  | 27   | 1645cst-1825cst       |                        |                       | 0              | 0       | 5                | ?     | Winds, hail        |
| 1655cst short narrow 0 0 4 ? Tornado F1   |      |                       |                        |                       |                |         |                  |       |                    |
| 1720cst 1.0 narrow 0 0 5 0 Tornado F0   |      |                       |                        |                       |                |         |                  |       |                    |
| 85 mph winds were clocked by Chillicothe Civil Defense officials as an intense thunderstorm moved thru the area. Four miles to the north, four persons watched as a tornado overturned a mobile home and destroyed a barn at 1655cst. As the intense thunderstorm moved east-southeast, two miles of main electric power transmission lines were destroyed south of Odell in Wilbarger county. The same thunderstorm produced another tornado which touched down briefly in a field |      |                       |                        |                       |                |         |                  |       |                    |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

## LATE REPORTS

## LATE REPORTS

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |

### TEXAS, Northern

### TEXAS, Northern

|                                |    |                 |  |  |   |   |   |   |  |  |
|--------------------------------|----|-----------------|--|--|---|---|---|---|--|--|
|                                |    |                 |  |  |   |   |   |   |  | Just northwest of Vernon along the Pease River. Although the funnel appeared to lift and travel over the airport before touching down again, winds under the funnel heavily damaged five airplanes on the airport ramp.<br><br>Winds in excess of 80 mph and golfball size hail were reported in Vernon at 1725 est, with numerous reports of damage to windows and roofs. Winds were estimated at 80 mph in Wichita county at 1825 est as the storm left 1700 customers without electricity for several hours.  |
| Baylor and Knox Counties       | 27 | 1730cst-1830cst |  |  | 0 | 0 | 5 | ? |  | winds  |
| Archer County                  | 27 | 1800cst         |  |  | 0 | 0 | 4 | ? |  | Winds<br><br>At Vera in Knox county, a grain elevator was destroyed by thunderstorm winds at 1730cst. At 1830cst, thunderstorm winds of 70 mph damaged 9 airplanes and 6 hangars at Seymour in Baylor county. A screen at a local drive-in theater was blown away and numerous office buildings in town suffered broken windows. The roof of a home was destroyed with damage estimated at \$15,000.<br><br>In addition, electric company officials estimated 250 power poles were downed in the two county area. Replacement costs were set at \$1100 per pole. |
| Montague County                | 27 | 1934cst         |  |  | 0 | 0 | 0 | 0 |  | Winds<br><br>70 mph winds destroyed a mobile home, damaged a store roof and downed about 75 power poles as a thunderstorm moved through the area around Holliday.  |
| Cooke County                   | 27 | 2000cst-2130cst |  |  | 0 | 0 | 4 | ? |  | Winds<br><br>Radio station KBAN in Bowie clocked winds at 60 mph as a thunderstorm moved through the area.<br><br>At 2000cst, high winds estimated at over 60 mph tore the roof from a mobile home in Muenster in the western part of the county. Numerous trees and power lines were downed as the storm continued east to Gainesville where 3.30 inches rain fell in one hours time.   |
| Wise and Denton Counties       | 27 | 2030cst-2130cst |  |  | 0 | 0 | 4 | ? |  | Hail, winds<br><br>Spotters reported golfball hail and high winds did minor property damage at Decatur. In eastern Wise county, spotters reported 2 barns destroyed by high winds near Slidell.<br><br>Moving into Denton county, the thunderstorm continued to inflict property damage with high winds as trees and power lines were downed.  |
| Grayson County                 | 27 | 2200cst         |  |  | 0 | 0 | ? | ? |  | Winds, heavy rain<br><br>Thunderstorm winds were clocked at 50 mph at the Sherman airport. Some trees and power lines were downed and rainfall amounts over 3 inches were common in the area. Some flooding of the low-lying areas was short-lived.  |
| Brown County                   | 28 | 0210 est        |  |  | 0 | 0 | 4 | 0 |  | Winds<br><br>Thunderstorm winds were clocked at 84 mph at Brownwood airport causing \$18,000 damage to several aircraft. An auto dealership roof was blown off in town and damaged 10 autos. Numerous reports of roof damage were scattered over the city.   |
| Callahan and Eastland Counties | 28 | 1510cst-1525cst |  |  |   |   | ? | ? |  | Hail<br><br>A thunderstorm moving through the southern sections of the two counties produced golfball size hail at Cross Plain and to the east at Rising Star.   |
| Comanche County                | 28 | 1545cst         |  |  | 0 | 0 | 4 | ? |  | Winds<br><br>High thunderstorm winds destroyed a church building in DeLeon.  |
| Brown County                   | 28 | 1630cst-1730cst |  |  | 0 | 0 | 4 | ? |  | Hail, wind<br><br>Golfball size hail damaged a vehicle in the Byrds Store community where .68 inch rain fell in 15 minutes. At 1640cst, golfball size hail broke car windows in the Lake Brownwood area. As the storm moved through Brownwood at 1730 est, it continued to produce golfball size hail and high winds which tore the roof from a building. Damage to the building was placed at \$10,000.   |
| Kaufman County                 | 28 | 1745cst         |  |  |   |   |   |   |  | Hail<br><br>Amateur spotters reported 1 inch hail near Kemp.   |
| Lampasas County                | 28 | 2030cst         |  |  |   |   |   |   |  | Hail<br><br>Hail from marble to baseball size was reported twelve miles south of Lometa.   |

|                                    |    |                 |              |              |   |   |   |   |  |   |
|------------------------------------|----|-----------------|--------------|--------------|---|---|---|---|--|---|
| Grayson, Fannin and Lamar Counties | 28 | 1729cst-2045cst | 1900cst      | short narrow | 0 | 0 | 4 | ? |  | Funnel, hail winds<br>Tornado FO<br><br>An intense thunderstorm left a path of hail up to the size of baseballs from western Grayson county to Lamar county and spawned a tornado in Fannin county. During the three county trek, spotters were constantly observing and monitoring the storm.<br><br>At 1729cst, spotters reported a funnel 4 miles west of Sherman and tracked it to near Pottsboro where it receded into the parent cloud. Hail to golfball size fell from Whitesboro to Denison Dam. At 1820cst, golfball size hail was still falling at the dam which had received 1.25 inches rain in less than one hour.<br><br>Moving eastward through Bells, the storm continued to produce golfball size hail, but as it progressed into Fannin county, it intensified to baseball size at Ector at 1933cst. During this time and until 2045cst, numerous reports of 70 mph winds and golfball size hail were reported from over Fannin and Lamar counties. Roof damage and downed trees and power lines were common over the entire path.<br><br>At 1900cst, a small tornado touched down briefly in an open field near Ravenna in northern Fannin county. The tornado traveled a short distance to a farm where it destroyed a 24 by 60 ft. barn and damaged a few other buildings. It traveled a short distance into a wooded area and lifted. |
| Collin and Hunt Counties           | 28 | 2040cst-2300cst |              |              | 0 | 0 | 6 | 0 |  | Hail, winds<br><br>Several thunderstorms moved through the area during the period. At 2040cst, golfball size hail was reported at Farmersville, followed at 2100cst by a similar report at Greenville. High winds, estimated at least 80 mph, tore a roof from the recreation center at a local university at 2100cst. In Greenville, several railroad cars were derailed and numerous buildings sustained roof damage from the high winds.   |
| Red River County                   | 28 | 2115cst         |              |              | 1 | 0 | ? | ? |  | High winds, heavy rains<br><br>High winds and thunderstorm rains were blamed as the cause of a one fatality auto accident in northern Red River county. Rainfall amounts were generally one inch or less, although Annona received five inches in one hour.   |
| Rains and Van Zandt Counties       | 28 | 2400cst-0100cst |              |              | 0 | 0 | ? | ? |  | Heavy rain, hail winds<br><br>Winds estimated at 80 mph accompanied a thunderstorm through the two counties, damaging roofs, out buildings and other property. Golfball size hail fell at numerous points in the two counties throughout the period.<br><br>Rainfall was heavy with the greatest amount reported being 5 inches in one hour at Point in Rains county.   |
| Hill County                        | 29 | 1630cst         |              |              | 0 | 0 | ? | ? |  | Hail<br><br>Hail as large as baseballs broke windows in cars and damaged roofs in the Lake Whitney area.  |
| Jones County                       | 29 | 1807cst         |              |              | 0 | 0 | ? | ? |  | Hail<br><br>Hawley Police reported 3/4 inch hail in town.   |
| Runnels County                     | 29 | 1907cst         | short narrow |              | 0 | 0 | 0 | 0 |  | Tornado FO<br>Funnel<br><br>Ballinger Police reported a funnel traveled over the city, then touched briefly in a field before lifting into the parent cloud. No damage was reported.<br><br>At 1910cst, a funnel was sighted near Rowena in southern Runnels county. The funnel went back into the clouds without touching down or causing damage.  |
| Throckmorton County                | 29 | 1920cst         |              |              | 0 | 0 | ? | ? |  | Hail<br><br>Golfball size hail was reported at Woodson.   |
| Stephens and Young Counties        | 29 | 1920cst         | 1940cst      |              |   |   |   |   |  | Funnel<br>Funnel<br><br>A funnel was sighted 10 miles north-northeast of Breckenridge in Stephens county at 1920cst.<br><br>Graham Civil Defense reported a funnel 6 miles southwest of Graham at 1940cst.<br><br>Neither funnel touched down or caused any damage.   |
| Taylor County                      | 29 | 2015cst         |              |              | 0 | 0 | 4 | ? |  | Winds<br><br>Thunderstorm winds overturned a mobile home and caused scattered damage in Abilene. Winds at the Weather Service Office were clocked at 60 mph during the storm.   |



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

## LATE REPORTS

## LATE REPORTS

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |        | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|--------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INURED | PROPERTY         | CROPS |                    |

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |        | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|--------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INURED | PROPERTY         | CROPS |                    |

### 41 TEXAS, Southern

MAY 1983

|  |    |         |    |    |   |   |   |   |              |
|--|----|---------|----|----|---|---|---|---|--------------|
| DeWitt County  | 3  | 0035CST | 1  | 30 | 0 | 0 | 0 | 0 | Tornado (FO) |
| <p>The public reported a tornado 3 miles southeast of Arneckville. It was moving toward the southeast at 45 mph.</p>   |    |         |    |    |   |   |   |   |              |
| Harris County  | 9  | 1715CST |    |    | 0 | 0 | ? | ? | Hailstorm    |
|  |    | 1745CST |    |    | 0 | 0 | ? | ? | Hailstorm    |
| <p>Spotty golfball-sized hail was reported near Katy in western Harris County as a strong thunderstorm moved eastward from Austin County. A second thunderstorm moving across northwestern Harris County produced golfball-sized hail near Cypress at 1745 CST.</p>  |    |         |    |    |   |   |   |   |              |
| Travis County  | 10 | 2013CST |    |    | 0 | 0 | ? | ? | Hailstorm    |
| <p>The Leander Police Department reported golfball-sized hail at Lago Vista and Jonestown along the northern shore of Lake Travis as a series of heavy thunderstorms moved eastward across Travis County.</p>  |    |         |    |    |   |   |   |   |              |
| Blanco, Burnett Counties   | 10 | 2030CST |    |    | 5 | 4 | ? | ? | Flash Flood  |
| <p>Heavy rains developing near 1800CST on the night of the 10th produced general 3 to 4 inch rains along the Pedernales River in southeast Gillespie County. 4 to 5 inch rains fell in northeast Gillespie, northwest Blanco and southeast Burnett Counties at the west end of Lake Travis and along North Grape Creek and other small tributaries flowing into the Pedernales River just above Johnson City.</p> <p>A rapid rise along the Colorado River feeding into the western end of Lake Travis trapped a man and his wife in their van near Marble Falls about 2100CST. As the man left the van to go for help, he was swept away by rapidly moving water 3 to 4 feet deep and drowned. His wife stayed with the van. She was later rescued and treated for minor cuts and shock.</p> <p>Flash flooding also developed rapidly along the Pedernales River from near Johnson City through the Pedernales Falls State Park and eastward along the river banks through central Blanco County. At 2020CST based on flash flood warnings and additional heavy rain expected, officials began to evacuate low areas in the park. Although the water only reached two feet depth at the Falls, it was flowing at near 16,000 cfs...a very high velocity.</p> <p>Twelve youths and four counselors had canoed through the park area during the afternoon and at evening had camped about 5 miles east of the park along the river banks. The campers had set up their belongings back from the river some 30 feet. However, the camp area flooded about 0100CST as the swiftly moving river washed all tents, campers and equipment into the river. Three of the counselors were able to pull nine youths to safety. One counselor and three youths were unable to escape and drowned.</p> |    |         |    |    |   |   |   |   |              |
| Travis, Williamson Counties  | 18 | 1115CST | 13 | 60 | 0 | 0 | ? | ? | Tornado (F1) |
| <p>A very visible and rather long-lived tornado developed from a severe thunderstorm just before noon in southwest Travis County. It was first sighted 2 miles west of Oak Hill as it touched down in an open field. The tornado then began a north-northeast movement at near 15 mph. As it approached Lake Austin, the tornado lifted to a funnel, touching down again about two miles north of the Lake. It continued north-northeastward to near Jollyville, in southern Williamson County. There it again lifted into a funnel for about four minutes and touched down once more. The tornado finally lifted and disappeared about a mile south of Round Rock. Damage was not indicated.</p>  |    |         |    |    |   |   |   |   |              |
| Travis County  | 18 | 2250CST |    |    | 0 | 0 | 0 | 0 | Hailstorm    |
| <p>Hail up to .75 inch in diameter was reported in south Austin in a severe thunderstorm. No damage occurred.</p>  |    |         |    |    |   |   |   |   |              |
| Val Verde County   | 19 | 1607CST |    |    | 0 | 0 | 6 | ? | Hailstorm    |
|  |    | 1800CST |    |    | 0 | 0 | 6 | ? | Hailstorm    |
|  |    | 1835CST | 1  | 30 | 0 | 0 | 0 | 0 | Tornado (FO) |
|  |    | 1900CST |    |    | 0 | 0 | 0 | 0 | Funnel       |
|  |    | 2000CST |    |    | 0 | 0 | 0 | 0 | Flash Flood  |
| <p>Very heavy thunderstorms developed across western Val Verde County near 1700CST. Moving slowly eastward, they began to produce hail just west of Langtry. At 1607CST golfball-sized hail was indicated by the Sheriff's Department. Large hail continued to fall from the Val Verde-Terrell County line eastward to near Langtry through 1700CST. At 1700CST spotty baseball-sized hail began falling in extreme southwest Val Verde County near U.S. 90. At 1800CST, baseball-sized hail was reported in Comstock. Considerable damage was done to roofs and cars in Langtry and Comstock due to the hail.</p> <p>About 1835CST an off duty observer from Laughlin AFB near Del Rio spotted a small tornado just west of the city. It was short-lived, moving to the northeast at near 30 mph. At 1900, a funnel was observed 14 miles west of Comstock by a sheriff's deputy. It was visible for nearly 15 minutes.</p>   |    |         |    |    |   |   |   |   |              |

### TEXAS, Southern

|   |    |         |   |   |   |   |   |   |             |
|---|----|---------|---|---|---|---|---|---|-------------|
| Maverick County   | 19 | 2010CST | 0 | 0 | ? | ? | ? | ? | Hailstorm   |
| <p>A severe thunderstorm that developed in southern Val Verde County moved southeastward across extreme southwestern Kinney County and into northwestern Maverick County. At 2010CST, golfball-sized hail was reported from the storm at Quemado. Damage is not known.</p>  |    |         |   |   |   |   |   |   |             |
| Uvalde, Medina Counties   | 19 | 2000CST |   |   | 0 | 0 | 0 | 0 | Funnel      |
|   |    | 2025CST |   |   | 0 | 0 | 5 | 6 | Hailstorm   |
|   |    | 2025CST |   |   | 0 | 0 | 5 | 6 | Tsm winds   |
|   |    | 2100CST |   |   | 0 | 1 | 6 | 7 | Tsm winds   |
| <p>A severe thunderstorm that formed in Real County moved southward into Uvalde County, then turned abruptly eastward near 2000CST, before reaching Uvalde. As it made the turn, it produced marble-sized hail that caused widespread damage to cotton crops in the Uvalde area. It then produced a funnel a few miles north of Uvalde. Shortly afterward, at 2025CST, golfball-sized hail was reported in eastern Uvalde County from west of Sabinol to near the city limits. At about the same time, a strong burst of wind from the storm struck the city, knocking down power lines, uprooting trees and damaging several roofs. The wind and hail also did considerable damage to mainly cotton crops from Knippa to Sabinol.</p> <p>Winds gusting to 75 mph were recorded in Hondo near 2100CST, after the severe thunderstorm that struck Sabinol continued eastward into Medina County. No hail was reported, but the strong winds damaged vehicles and roofs of buildings and knocked over trees through the Hondo area. Several barns west of Hondo were destroyed and one person was injured as a mobile home was lifted off its pad, tossed and tumbled for nearly 50 feet. Two aircraft at Hondo Airbase were flipped over and damaged. 2 to 4-inch rain accompanied the storm, but no flooding was reported.</p>  |    |         |   |   |   |   |   |   |             |
| Brazos County   | 19 | 2030CST |   |   | 0 | 0 | ? | ? | Flash Flood |
|   |    | 2130CST |   |   | 0 | 0 | 0 | 0 | Hailstorm   |
| <p>Heavy rains from thunderstorms moving slowly eastward across the county produced flash flooding in Bryan and College Station. Cars were reported to be stalled in College Station due to the high water. The heavy rains continued for over an hour, followed by severe weather in the form of hail to .75 inch in Bryan.</p>  |    |         |   |   |   |   |   |   |             |
| Bexar, Guadalupe, Gonzales, Caldwell Counties   | 19 | 2245CST |   |   | 0 | 0 | ? | ? | Tsm winds   |
| <p>Entering Bexar County just after 2200CST, a severe thunderstorm moved eastward across northern Bexar County. A strong outflow boundary was produced by the storm and began to move out ahead of the thunderstorm. This first produced severe winds about 2245CST when gusts of 62 mph were recorded at the Weather Service Office in San Antonio. Minor damage was reported to vehicles, and roofs of homes and businesses across the county. Brief, heavy rains with the storm caused some minor flooding of low lying areas. The only barricades required were in the Olmos Park area of San Antonio.</p> <p>As the severe thunderstorm moved eastward into Guadalupe County just after 2300CST, it continued to produce damaging winds. Gusts estimated at above 60 mph over western and central Guadalupe County continued to knock down power lines, uproot trees and destroy signs.</p> <p>The Guadalupe County thunderstorm continued eastward into Gonzales County. At 2330CST, the strong winds struck the city of Gonzales, causing heavy damage to an aircraft at the airport and widespread damage to trees, power lines and buildings over the city.</p> <p>By 0030CST the damaging winds had entered Caldwell County. No wind estimates were available, but the same pattern of damage and destruction of trees, power poles and buildings continued. The last reported severe weather occurred near Luling, just before 0100CST.</p>  |    |         |   |   |   |   |   |   |             |
| Travis County   | 19 | 2301CST |   |   | 0 | 0 | ? | ? | Tsm winds   |
| <p>Strong winds from a thunderstorm gusted to 58 mph at the Weather Service Office at the Austin airport. Damage is not known.</p> <p>.....</p> <p>The following series of severe weather events-funnels, tornadoes, hail, high winds and flooding-represents one of the most deadly, costly, and widespread outbreaks of severe weather in Southeast Texas in decades. It compares in many ways with the destruction caused by Hurricane Carla, as she struck the area in 1961.</p> <p>The severe thunderstorms that struck the Central and South Central portions of South Texas earlier, had produced strong outflow boundaries, as evidenced by the widespread wind damage. One boundary proceeded eastward from the San Antonio area while the second boundary moved southeastward from the College Station area. The two intersected near 0100CST in western Washington County. To the southeast lay an old frontal boundary, along the mid and upper Texas coast from near Guero to Galveston and into the Gulf of Mexico near Sabine Pass. With warm temperatures and high moisture content at the surface, dry air at mid levels and an upper level disturbance moving eastward from the Del Rio area, the stage was set. The final ingredient was added as a strong upper level jet moved over Southeast Texas. Thunderstorms began to develop ahead of the outflow boundary and north of the frontal boundary near 2300CST. The first reports of severe weather came from Montgomery County...</p> |    |         |   |   |   |   |   |   |             |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

## LATE REPORTS

## LATE REPORTS

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |
|       |      |                       |                        |                       |                |         |                  |       |                    |

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |                    |
|       |      |                       |                        |                       |                |         |                  |       |                    |

### TEXAS, Southern

Montgomery County  
19 2325CST 0 0 ? ? Hailstorm  
20 0040CST 0 0 ? ? Hailstorm

The first report of severe weather came from Montgomery County as a rapidly developing thunderstorm began to produce gusty winds followed by golfball-sized hail in the city of Montgomery. Baseball-sized hail was reported in a second strong storm just east of Willis at 0040CST. Widespread damage to trees, power lines and buildings was indicated over the county.

Austin County  
20 0005CST small narrow 0 0 6 ? Tornado (F0)

Damage to buildings, cars, trees, and garages was reported near 0005CST in Sealy in what is believed to be a small tornado. It was apparently short-lived and small.

Liberty County  
20 0015CST .8 40 0 0 6 ? Tornado (F0)

A tornado was sighted along FM 1960 5 miles west of Dayton. It was short-lived and small but caused damage to several homes.

Washington County  
20 0030CST 1 175 1 4 6 ? Tornado (F1)

A tornado struck a mobile home park in Phillipsburg, destroying 7 of the 8 mobile homes in the park. A young woman was killed after being pinned in the wreckage of her trailer. Four others in the park were also injured. Witnesses reported hearing a "sound like a freight train" just prior to the tornado's touchdown.

Harris County  
20 0033CST 0 0 ? ? Hailstorm

Large hail from a nearby severe thunderstorm was reported in the Cypress area near 0330CST. The hail ranged from golfball to baseball-sized. Damage information was not available.

Liberty County  
20 0035CST 1 100 0 0 6 ? Tornado (F1)

A tornado struck a mobile home park in Liberty County, about 10 miles south of Dayton. It destroyed 8 mobile homes and damaged nearby houses. No other information was available on damage.

Grimes County  
20 0040CST 1 5 6 ? Tstm winds  
0040CST 0 0 5 ? Hailstorm

Strong, damaging winds from a severe thunderstorm struck the south central portion of Navasota. Heavy rain and hail up to 1 inch in diameter accompanied the winds. Although witnesses reported hearing "a freight-train sound", ground surveys indicated the damage to have been caused by straight-line winds, not a tornado. The winds knocked down numerous trees and powerlines, destroyed two houses, 20 apartments, an airport hangar, 4 mobile homes and damaged roofs of homes. The worst damage was in east-west oriented area two blocks wide and nearly one mile long. Six persons were injured as the winds tipped over their mobile home. One later died as a result of the injuries.

.....  
Three elongated damage paths were left by a series of severe storms developing just before midnight in western Washington County. The storms formed along the leading edge and at the intersection of two fast-moving thunderstorm outflow boundaries and just to the north of a stationary frontal boundary. The paths ranged from 90 to 75 miles in length and from 5 to 30 miles in width. Most of the damage was caused by winds of less than 75 mph, although several tornadoes as well as brief downburst in excess of 100 mph were responsible for the destruction of hundreds of structures, the deaths of 6 persons, and injury to nearly 120.

The following describes the events chronologically by path.

Austin, Waller, Harris, Montgomery Counties  
20 0050CST- 0 ? ? ? Tstm winds  
0200CST  
0100CST 2.5 175 0 ? ? ? Tornado (F1)  
0110CST 3.0 175 0 ? ? ? Tornado (F1)  
0130CST 1 ? ? ? Tstm winds

The first of the three damage paths began near Bellville, in central Austin County and continued northeastward across northern Waller County, extreme northwestern Harris County and into southwestern Montgomery County. Shortly after the first damaging winds occurred, a tornado was produced by the storm system. It touched down about 4 miles west of Bellville and moved to the east-northeast. It destroyed trees, power lines and a mobile home in the generally open country. It lifted and dissipated just before reaching Bellville. A second tornado was produced about 0110CST near Cochran. It also tracked northeastward over open country with extensive damage to trees, fences and power lines.

The severe storm and damaging winds continued across northeastern Austin County into northern Waller County. Just before reaching Prairie View, the storm produced what was probably the strongest downburst of the two-day event. Winds in excess of 120 mph and perhaps as strong as 150 mph struck just south of Prairie View about 0130CST. A young man and his family and a friend were in their mobile home as the winds struck. Although the friend tried to hang onto the young man, the latter was caught up by the strong wind and died after being tossed and thrown for almost 200 yards. One other family member sustained minor injuries.

### TEXAS, Southern

Harris, Montgomery, Liberty Counties  
20 0050CST- 0 ? ? ? Tstm winds  
0230CST  
0115CST 1.5 175 0 ? ? ? Tornado (F1)  
0120CST 7 350 1 ? ? ? Tornado (F2)  
0145CST 2 ? ? ? Tstm winds

Severe thunderstorms produced the second damage track along a 75-mile path from near Hockley, in northwestern Harris County, east-northeastward across the northern portion of Harris County, the southern tip of Montgomery County and into east central Liberty County. The width of the damage path varied from 25 to 40 miles along the path. Most of the damage was produced by winds of less than 75 mph, with brief bursts of up to or just over 100 mph.

At 0115CST winds estimated at 65 mph struck near Hockley, causing widespread damage to buildings, trees and vehicles. A strong downburst of near 100 mph winds was also produced just south of the road from Cypress to Kohnville about 0120CST.

Continuing northeastward, the storm system produced a tornado at approximately 0115CST. The tornado struck near Tomball, in north central Harris County and moved eastward for about 1.5 miles.

Shortly afterward, the system produced a second, larger, and more devastating tornado. This one touched down near Hooks Airport, destroying 4 barns and 8 aircraft. It also damaged over 40 houses and mobile homes in its path. A young girl was killed as the tornado overturned her mobile home and tore it apart. Debris from the trailers was found in the tops of trees.

The storm system produced another downburst in excess of 100 mph as it moved through the city of Spring in north central Harris County near 0125CST. Moving into Montgomery County, the system produced additional downbursts of over 100 mph as it crossed the San Jacinto River, and as it approached New Caney and Porter about 0130CST. The downbursts damaged or destroyed several homes and mobile homes at New Caney and Porter. Near New Caney, a man was killed when a tree was blown over on his mobile home, crushing him and pinning his wife in their bedroom. She was injured but recovered. A young woman was killed in a mobile home in the New Caney downburst as a tree was knocked over on the mobile home destroying it.

A final downburst of over 100 mph winds struck near where the Harris, Montgomery and Liberty County lines meet. Damaging winds of up to 75 mph continued northeastward into Liberty County to near the intersection of FM 162 and the Trinity River.

Harris, Liberty Counties  
20 0050CST- 0 ? ? ? Tstm winds  
0230CST  
0130CST 12 350 1 ? ? ? Tornado (F2)  
0200CST 1 ? ? ? Tstm winds

The third damage track started in western Harris County near Addicks and ran northeastward across central Harris County into southwestern Liberty County. Width of the damage path varied from about 10 miles at the beginning and end points to near 25 miles near the middle of the path. Again, isolated downbursts of over 100 mph were reported along the track.

Shortly after the initial damaging winds, the system produced a tornado that touched down about 4 miles east of Addicks near 0100CST. The tornado continued along an east-northeast path across the northwest portion of the city of Houston, finally lifting just before reaching the Intercontinental Airport. It damaged the roofs of two northwest Houston apartment complexes as well as buildings in a number of school districts of northwest Houston.

Just before crossing I-45 at about 0130CST, the tornado toppled a tree over on a house, pinning a young girl and her mother in the bedroom. The girl was killed but the mother, along with other family members in another bedroom, survived.

Continuing northeastward, the system produced downbursts just northeast of Kinwood and Huffman in Harris County and along the Harris-Liberty County lines just east of Crosby. Large hail was also noted in the downburst near Crosby. About 0200CST, the high winds blew a large oak tree over on a mobile home near Liberty. The falling tree destroyed the trailer, killing the occupant.

The wind, tornado and hail damage was only a part of the total injury and damage to persons and property. As a result of the 3 and 4-inch rains brought by the storms, flash flooding developed near 1300CST, causing massive damage in Harris, Montgomery and San Jacinto Counties. This information is included on a later page.

Travis County  
20 0100CST 0 0 ? ? Hailstorm

A severe thunderstorm produced .75 inch hail about 2 miles east of the municipal airport in Austin.

Hays County  
20 0100CST 0 0 ? ? Hailstorm

Hail just over one inch in diameter was reported in a severe thunderstorm at Buda.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

## LATE REPORTS

## LATE REPORTS

| PLACE                                    | DATE | TIME - LOCAL STANDARD         | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM   |
|--|------|-------------------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--|
|  |      |                               |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |  |
| <b>TEXAS, Southern</b>                   |      |                               |                        |                       |                |         |                  |       |  |
| Bastrop County                           | 20   | 0100CST                       |                        |                       | 0              | 0       | ?                | ?     | Hailstorm  |
|  |      |                               |                        |                       |                |         |                  |       | Hail of diameter up to golfball-size fell 3 miles southwest of the city of Elgin.  |
| Brazos County                            | 20   | 0130CST                       |                        |                       | 0              | 0       | ?                | ?     | Flash Flooding   |
|  |      |                               |                        |                       |                |         |                  |       | Heavy rains developing near midnight CST produced widespread 2 to 3 inch rainfall amounts over the county with isolated 4 inch amounts.  |
|  |      |                               |                        |                       |                |         |                  |       | Flash flooding developed in and around College Station near 0130CST. Numerous cars were flooded out and had to be abandoned. In many locations, 4-wheel drive vehicles had to be used to evacuate people.  |
| Harris County                            | 20   | 1109CST                       |                        |                       | 0              | 0       | 0                | 0     | Funnel   |
|  |      |                               |                        |                       |                |         |                  |       | Department of Public Safety officers reported a funnel near Satsuna.   |
| Harris County                            | 20   | 1210CST                       |                        |                       | 0              | 0       | 0                | 0     | Funnel   |
|  |      |                               |                        |                       |                |         |                  |       | A funnel was observed moving to the east-northeast over the central portion of the city of Houston.  |
| Liberty County                           | 20   | 1210CST<br>1245CST            |                        |                       | 0              | 0       | ?                | ?     | Hailstorm<br>Flash Flooding  |
|  |      |                               |                        |                       |                |         |                  |       | Hail up to golfball-size fell briefly over portions of the city of Liberty as a severe thunderstorm moved eastward across the county. General 3-inch to 4-inch rains over the northern portion of the county produced brief flash flooding of the Trinity River through much of the afternoon.   |
| Harris County                            | 20   | 1212CST                       |                        |                       | 0              | 0       | 0                | 0     | Funnel   |
|  |      |                               |                        |                       |                |         |                  |       | A funnel was observed briefly west of Huffman, moving east.  |
| Harris County                            | 20   | 1215CST                       |                        |                       | 0              | 0       | 0                | 0     | Funnel   |
|  |      |                               |                        |                       |                |         |                  |       | A funnel was reported over Sheldon, moving to the east.  |
| Harris County                            | 20   | 1220CST                       | small narrow           |                       | 0              | 0       | ?                | ?     | Tornado (F0)   |
|  |      |                               |                        |                       |                |         |                  |       | A tornado was reported by the public near Humble. It touched down very briefly, moving northeastward. Damage was not indicated.  |
| Harris County                            | 20   | 1231CST                       | small narrow           |                       | 0              | 0       | ?                | ?     | Tornado (F0)   |
|  |      |                               |                        |                       |                |         |                  |       | A tornado was observed very briefly as it touched down near the Astrodone, in the southwestern portion of Houston. The tornado was reported to be small and no damage was reported.  |
| Chambers County                          | 20   | 1253CST<br>1255CST<br>1315CST | short narrow           |                       | 0              | 0       | ?                | ?     | Hailstorm<br>Tornado (F0)<br>Hailstorm   |
|  |      |                               |                        |                       |                |         |                  |       | A small tornado struck near the intersection of I-10 and FM 565 about 7 miles northwest of the city of Anahuac. High winds, heavy rain and golfball-sized hail preceded the tornado. It destroyed trees and power lines in the open country and damaged homes as it moved eastward through a residential area. Several mobile homes were also overturned. Shortly after the tornado ended, golfball-sized hail, high winds and heavy rain again developed and continued from 1315CST through 1330CST.  |
| Caldwell, Hays, Travis Counties          | 20   | 1300CST                       |                        |                       | 0              | 0       | ?                | ?     | Flash Flooding   |
|  |      |                               |                        |                       |                |         |                  |       | Widespread 2 to 3-inch rain amounts had been received through the morning period over the three county area. By 1300CST, widespread but minor flash flooding was reported with the most serious being in Caldwell County. The flash flooding ended near 1500CST.   |
| Harris, Montgomery, San Jacinto Counties | 20   | 1300CST                       |                        |                       | see note below |         |                  |       | Flash Flooding   |
|  |      |                               |                        |                       |                |         |                  |       | Through the morning, general rains of 3 to 4 inches had been received over the three county area. By early afternoon, flash flooding was occurring along the San Jacinto River, along with most of its tributaries. The flash flooding continued until about 1900CST. Widespread damage occurred over the three county area, but because of additional rainfall, flooding and damage on the following day, damage and injury estimates were not possible to separate. They have been lumped together at the end of the summary of flooding for the 21st, beginning at 1000CST. |
| Jefferson County                         | 20   | 1315CST<br>1415CST            | short narrow           |                       | 0              | 0       | 6                | ?     | Tornado (F1)<br>Flash Flooding   |
|  |      |                               |                        |                       |                |         |                  |       | A small tornado struck a residential area near None, causing extensive damage to several homes. A number of small barns and outbuildings in the area were also damaged. Heavy rains from this storm as well as previous rains through the morning period had produced widespread 2 to 3-inch rainfall. Brief flash flooding was reported in the city of Beaumont and in low areas across the northern portion of the county. Some 200 residents were evacuated in the eastern portion of the city of Beaumont, but were able to return home shortly afterward.                 |

| PLACE                  | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM   |
|------------------------|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--|
|                        |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |  |
| <b>TEXAS, Southern</b> |      |                       |                        |                       |                |         |                  |       |  |
| Jefferson County       | 20   | 1326CST<br>1335CST    | .3                     | 50                    | 0              | 0       | ?                | ?     | Hailstorm<br>Tornado (F0)  |
|                        |      |                       |                        |                       |                |         |                  |       | Golfball-sized hail was reported to be covering the ground near China. The hail continued off and on as the storm moved rapidly into the western portion of the city of Beaumont. Considerable damage was done to windows and roofs of buildings and to vehicles. As the storm continued across the western side of Beaumont, it produced a small tornado, as observed by Skywarn spotters. The tornado was short-lived.   |
| Chambers County        | 20   | 1335CST               | small narrow           |                       | 0              | 0       | 0                | 0     | Tornado (F0)   |
|                        |      |                       |                        |                       |                |         |                  |       | A small tornado was observed near Winnie as it moved toward the east-northeast. No damage was indicated.   |
| Jefferson County       | 20   | 1338CST<br>1340CST    | 1                      | 100                   | 0              | 0       | ?                | ?     | Hailstorm<br>Tornado (F0)  |
|                        |      |                       |                        |                       |                |         |                  |       | A tornado struck near the town of Fannett, destroying several mobile homes and damaging houses and cars in the area. Witnesses reported that the tornado was preceded by high winds, heavy rain and large hail. Several also reported that their ears popped just before the tornado struck.   |
| Jefferson County       | 20   | 1345CST               | 3                      | 175                   | 1              | 9       | 6                | ?     | Tornado (F2)   |
|                        |      |                       |                        |                       |                |         |                  |       | High winds followed by heavy rain and hail preceded a tornado that touched down near the Jefferson County Airport at about 1345CST. The tornado moved eastward, striking the airport, damaging aircraft and helicopters, and causing the collapse of the airport terminal. One man was killed in the collapse of the structure. All others had left the building, some just a matter of seconds before the tornado struck. Several persons in the path of the tornado reported that their ears popped just before the tornado struck.  |
| Bastrop County         | 20   | 1345CST               |                        |                       | 0              | 0       | ?                | ?     | Hailstorm  |
|                        |      |                       |                        |                       |                |         |                  |       | Hail varying in diameter from .5 to .75 inch was reported in a severe thunderstorm near Smithville.  |
| Hays County            | 20   | 1345CST<br>1430CST    |                        |                       | 0              | 0       | 0                | 0     | Funnel<br>Flash Flood  |
|                        |      |                       |                        |                       |                |         |                  |       | A funnel was observed during a severe thunderstorm near San Marcos. The funnel was preceded by heavy rain and gusty, shifting winds. 2 to 3 inches of rain fell in a short time causing flash flooding that damaged buildings and trapped motorists in automobiles. 6 to 8 inches of water was reported in some buildings.   |
| Orange County          | 20   | 1357CST               | .3                     | 40                    | 0              | 0       | ?                | ?     | Funnel   |
|                        |      |                       |                        |                       |                |         |                  |       | A severe thunderstorm that had produced damaging winds, hail and a tornado in the Nederland area continued eastward into Orange County. As it approached Bridge City, the Police Department observed a funnel, very small and short-lived.   |
| Harris County          | 20   | 1400CST               | 4                      | 350                   | 1              | 2       | ?                | ?     | Tornado (F2)   |
|                        |      |                       |                        |                       |                |         |                  |       | A severe thunderstorm moving eastward through the northern portion of Harris County. Just before reaching Crosby, it produced a tornado that struck a mobile home park, injuring two people and killing one other.   |
| Colorado County        | 20   | 1400CST               |                        |                       | 0              | 0       | ?                | ?     | Hailstorm  |
|                        |      |                       |                        |                       |                |         |                  |       | Large hail was reported in a severe thunderstorm near Sheridan. No other information was given.  |
| Jefferson County       | 20   | 1401CST<br>1410CST    | .7                     | 100                   | 0              | 3       | ?                | ?     | Tornado (F1)<br>Tsta winds   |
|                        |      |                       |                        |                       |                |         |                  |       | A severe thunderstorm, moving across the southern portion of Jefferson County, produced a tornado as the storm entered the western portion of the city of Port Arthur. It was observed by Skywarn spotters who reported widespread damage to structures in the area. The most notable damage was to the east wing of St. Mary's Hospital, where it tore off a portion of the roof, broke windows and knocked out power. Damage was also caused to the roof of the Central Mall by the tornado. Witnesses reported a "freight train" sound just prior to the tornado's touchdown. |
|                        |      |                       |                        |                       |                |         |                  |       | As the storm moved eastward through the city of Port Arthur, strong outflow from the storm estimated at 75 mph damaged over 22 boats at anchor on Sabine Lake near 1410CST.  |
| Hardin County          | 20   | 1501CST               |                        |                       | 0              | 0       | ?                | ?     | Hailstorm  |
|                        |      |                       |                        |                       |                |         |                  |       | Hail in diameter up to golfball-size was reported in Lumberton by the Fire Department. Damage was not specified.   |
| Jefferson County       | 20   | 1519CST               |                        |                       | 0              | 0       | ?                | ?     | Hailstorm  |
|                        |      |                       |                        |                       |                |         |                  |       | Golfball-sized hail fell in the western portion of the city of Beaumont.   |
| Brazos County          | 20   | 1530CST               |                        |                       | 0              | 0       | 0                | 0     | Funnel   |
|                        |      |                       |                        |                       |                |         |                  |       | A funnel was observed briefly along FM 2816 about 3 miles south of College Station.  |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

## LATE REPORTS

## LATE REPORTS

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED* DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|-------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY          | CROPS |                    |

| PLACE | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED* DAMAGE |       | CHARACTER OF STORM |
|-------|------|-----------------------|------------------------|-----------------------|----------------|---------|-------------------|-------|--------------------|
|       |      |                       |                        |                       | KILLED         | INJURED | PROPERTY          | CROPS |                    |

### TEXAS, Southern

|  |    |                 |              |     |   |   |   |   |                |
|--|----|-----------------|--------------|-----|---|---|---|---|----------------|
| Harris County  | 20 | 1600CST         |              |     | 0 | 0 | 0 | 0 | Funnel         |
| A funnel was reported near Seabrook.   |    |                 |              |     |   |   |   |   |                |
| Grimes County  | 20 | 1600CST         | small narrow |     | 0 | 0 | 0 | 0 | Tornado (FO)   |
| A small tornado struck briefly near Navasota. No damage was indicated.   |    |                 |              |     |   |   |   |   |                |
| Harris County  | 20 | 1700CST         | small narrow |     | 0 | 0 | 0 | 0 | Tornado (FO)   |
| A tornado was reported near Seabrook by the public. It was small and short-lived.  |    |                 |              |     |   |   |   |   |                |
| Hardin, Tyler, Polk Counties   | 20 | 1830CST         |              |     | 0 | 0 | ? | ? | Flash Flooding |
| General rains of 3 to 4 inches with isolated amounts near 6 inches had fallen over the past 4 hours, causing widespread minor flooding along the Neches River and its tributaries, especially those in Polk County feeding into Big Sandy Creek and those in Tyler County feeding into Village Creek. The two creeks later feed into the Neches. Flash flooding ended near 2000CST as the rivers and tributaries continued in flood stage.   |    |                 |              |     |   |   |   |   |                |
| Jasper County  | 21 | 0220CST         | small narrow |     | 0 | 0 | ? | ? | Tornado (FO)   |
| The public reported a small tornado one mile east of Kirbyville. It struck in open country, knocking down trees and power lines.   |    |                 |              |     |   |   |   |   |                |
| Bexar, Comal, Real, Uvalde Counties  | 21 | 0530CST-1400CST |              |     | 0 | 0 | 0 | 0 | Flash Flooding |
| General 2-inch to 3-inch rains fell over the four county area with isolated amounts just over 4 inches. Minor, but widespread flash flooding resulted with no major damage noted. However, at 1400CST, after the streams and rivers were receding, a death occurred in Bexar County. A 15-year old youth and 4 companions were crossing a small bridge across Salado Creek on the south side of the city of San Antonio. He slipped and fell in. His companions attempted to rescue him but were also pulled in. They managed to get to the creek banks but the youth drowned.   |    |                 |              |     |   |   |   |   |                |
| Lee County   | 21 | 0700CST         | 2            | 100 | 0 | 1 | 5 | ? | Tornado (F1)   |
| A small tornado struck near Northrup, twisting and destroying trees and power lines. It tore up a metal barn, a small cargo trailer and a mobile home. The lady living in the mobile home reported hearing first the hail falling, then a rumbling sound as the tornado struck. She was injured as the trailer was picked up and rolled about 100 feet. The mobile home was destroyed.   |    |                 |              |     |   |   |   |   |                |
| Brazos County  | 21 | 0730CST         |              |     | 0 | 0 | 0 | 0 | Funnel         |
| A small funnel was observed just north of College Station. Widespread minor wind damage was reported around the city as winds gusting to 51 mph were recorded at a television station.   |    |                 |              |     |   |   |   |   |                |
| Austin County  | 21 | 0755CST         |              |     | 0 | 0 | 0 | 0 | Funnel         |
| A funnel cloud was observed briefly near Bellville.  |    |                 |              |     |   |   |   |   |                |
| Waller County  | 21 | 0825CST         | small narrow |     | 0 | 0 | 0 | 0 | Tornado (FO)   |
| A small and short-lived tornado was observed near Brookshire. It touched briefly then lifted and disappeared.  |    |                 |              |     |   |   |   |   |                |
| Harris County  | 21 | 0850CST         |              |     | 0 | 0 | ? | ? | Hailstorm      |
| Hail measuring up to 1 inch in diameter was reported near Huffman in northeastern Harris County. No damage was reported.   |    |                 |              |     |   |   |   |   |                |
| Harris County  | 21 | 0915CST         | .5           | 50  | 0 | 0 | 0 | 0 | Tornado (FO)   |
| A small tornado touched down in an open field on the west side of the city of Houston. It caused no known damage.  |    |                 |              |     |   |   |   |   |                |
| Harris, Liberty, Montgomery, Polk, San Jacinto, Walker Counties  | 21 | 1000CST-1900CST |              |     | 0 | 0 | ? | ? | Flash Flooding |
| Additional heavy rains of up to 6 inches over the previous day's amounts caused widespread flash flooding over the six county area. The flooding began near 1000CST and lasted through the afternoon and into the evening. By 1900CST, flash flooding had given way to massive flooding, most notably in Montgomery and Harris Counties. The damage and destruction to property was caused by a combination of downbursts, tornadoes, hail and flooding. Separate figures were not available for these. Latest available figures indicated over 600 homes were destroyed in Harris County, with 1000 damaged. Nearly 5000 persons had to be evacuated in Harris County. In Montgomery County, over 1300 families were evacuated in the county, as nearly 500 homes were destroyed. Some 25 homes were destroyed and some 100 persons evacuated in San Jacinto County. 20 homes were damaged in Liberty County. |    |                 |              |     |   |   |   |   |                |
| Austin County  | 21 | 1110CST         | .5           | 30  | 0 | 0 | 0 | 0 | Tornado (FO)   |
| Skywarn spotters in Austin County observed a small tornado as it struck just east of Sealy in open country. No damage was noted.   |    |                 |              |     |   |   |   |   |                |

### TEXAS, Southern

|   |    |                         |    |    |   |   |   |   |              |
|---|----|-------------------------|----|----|---|---|---|---|--------------|
| Austin County   | 21 | 1210CST-1210CST-1210CST | .5 | 20 | 0 | 0 | ? | ? | Tornado (FO) |
| A cluster of three small and short-lived tornadoes were observed between Sealy and Bellville, in open country. Damage was not indicated.  |    |                         |    |    |   |   |   |   |              |
| Harris County   | 21 | 1215CST-1215CST-1220CST | .3 | 30 | 0 | 0 | 0 | 0 | Tornado (FO) |
| As severe thunderstorms continued to move eastward across Harris County, they produced a pair of short-lived tornadoes just north of Houston Intercontinental Airport and another small and short-lived tornado just west of downtown Houston in an open field.   |    |                         |    |    |   |   |   |   |              |
| Montgomery County   | 21 | 1316CST                 |    |    | 0 | 0 | 0 | 0 | Funnel       |
| A small funnel was visible briefly near Pasadena.   |    |                         |    |    |   |   |   |   |              |
| Harris County   | 21 | 1322CST                 |    |    | 0 | 0 | ? | ? | Hailstorm    |
| A severe thunderstorm produced 1.5 inch hail near Katy as it entered Harris County from the west. In addition, near 3 inches of rain was received in a short period of time. Flooding was not indicated.  |    |                         |    |    |   |   |   |   |              |
| Hardin County   | 21 | evening                 |    |    | 2 | 0 | 0 | 0 | Flooding     |
| As flooding continued in northern Hardin County along Big Sandy Creek, two high school youths drowned as they assisted in sandbagging operations. The accident occurred in Kimble Lake, just west of Village Mills. The youths were in a 14-foot aluminum boat near the spillway. The boat was observed to turn sideways and capsize in the rapidly moving water. |    |                         |    |    |   |   |   |   |              |
| Bandera County  | 23 | 1950CST-1953CST-1955CST | .3 | 30 | 0 | 0 | 0 | 0 | Tornado (FO) |
| A series of three small and very short-lived tornadoes was observed by members of the Bandera County Sheriff's office about 5 miles north of Bandera. They were in open country, causing no significant damage. The third tornado was preceded by brief, heavy rain and .5-inch hail.   |    |                         |    |    |   |   |   |   |              |
| Refugio County  | 25 | 1135CST                 |    |    | 0 | 0 | 0 | 0 | Funnel       |
| A funnel was observed briefly near Refugio.   |    |                         |    |    |   |   |   |   |              |
| Harris County   | 30 | 1850CST                 |    |    | 0 | 0 | 0 | 0 | Funnel       |
| A funnel was spotted in western Harris County near the intersection of FM 1960 and U.S. 290.  |    |                         |    |    |   |   |   |   |              |

# STORM DATA AND UNUSUAL WEATHER PHENOMENA CORRECTIONS

| PLACE   | DATE | TIME - LOCAL STANDARD | LENGTH OF PATH (MILES) | WIDTH OF PATH (YARDS) | NO. OF PERSONS |         | ESTIMATED DAMAGE |       | CHARACTER OF STORM   |
|---|------|-----------------------|------------------------|-----------------------|----------------|---------|------------------|-------|--|
|   |      |                       |                        |                       | KILLED         | INJURED | PROPERTY         | CROPS |  |
| <b>25 NEBRASKA</b>  |      |                       |                        |                       |                |         |                  |       |  |
| JUNE 1983   |      |                       |                        |                       |                |         |                  |       |  |
| DELETE:<br>ONE TORNADO in Dawes County at 1844CST on June 19.               |      |                       |                        |                       |                |         |                  |       |  |
| ADD:<br>TWO TORNADOES listed below:   |      |                       |                        |                       |                |         |                  |       |  |
| Dawes County  | 19   | 1835CST               | 10                     | 40                    | 0              | 0       | 5                | 2     | Tornado (2,3,1)<br>Tornado touched down from 2 miles north of the stateline along Highway 385 in Fall River County in South Dakota southeast past Mayside to 10 miles northwest of Chadron. Homes and buildings were destroyed or damaged. |
| Dawes County  | 19   | 1844CST               | .1                     | 0                     | 0              | 0       | 0                | 0     | Tornado (0,0,0)<br>Tornado touched down briefly 12 miles northeast of Chadron.   |
| <b>34 OKLAHOMA</b>  |      |                       |                        |                       |                |         |                  |       |  |
| APRIL 1983  |      |                       |                        |                       |                |         |                  |       |  |
| TIME CHANGES: Times for the following entries should be corrected as shown: |      |                       |                        |                       |                |         |                  |       |  |
| Tonkawa, Kay County   | 27   | 1815CST               |                        |                       | 0              | 0       | ?                | ?     | Hail<br>Time corrected from 1915CST.   |
| Prague, Lincoln County  | 27   | 2030CST               |                        |                       | 0              | 0       | ?                | ?     | Hail<br>Time corrected from 2130CST.   |
| Weleeka, Okfuskee County  | 27   | 2150CST               |                        |                       | 0              | 0       | ?                | ?     | Hail<br>Time corrected from 2250CST.   |
| Burbank, Osage County   | 27   | 2224CST               |                        |                       | 0              | 0       | ?                | ?     | Hail<br>Time corrected from 2324CST.   |
| Dustin, Hughes County   | 27   | 2230CST               |                        |                       | 0              | 0       | ?                | ?     | Hail<br>Time corrected from 2330CST.   |
| Indianola, Pittsburg County   | 27   | 2255CST               |                        |                       | 0              | 0       | ?                | ?     | Hail<br>Time corrected from 2355CST.   |

STORM SUMMARY

| STATE | TORNADOES |      |        |          |         | HAILSTORMS |          |            |       | WINDSTORMS |          |            |       | LIGHTNING |          |            |       | FLOODING |          |            |       | HEAVY SNOWSTORMS AND BLIZZARDS |          |            |       | ICE STORMS |          |            |       | ALL OTHER |  |  |  |
|-------|-----------|------|--------|----------|---------|------------|----------|------------|-------|------------|----------|------------|-------|-----------|----------|------------|-------|----------|----------|------------|-------|--------------------------------|----------|------------|-------|------------|----------|------------|-------|-----------|--|--|--|
|       | NUMBER    | DAYS | DEATHS | INJURIES | +DAMAGE | DEATHS     | INJURIES | +DAMAGE    |       | DEATHS     | INJURIES | +DAMAGE    |       | DEATHS    | INJURIES | +DAMAGE    |       | DEATHS   | INJURIES | +DAMAGE    |       | DEATHS                         | INJURIES | +DAMAGE    |       | DEATHS     | INJURIES | +DAMAGE    |       |           |  |  |  |
|       |           |      |        |          |         |            |          | PROP. ERTY | CROPS |            |          | PROP. ERTY | CROPS |           |          | PROP. ERTY | CROPS |          |          | PROP. ERTY | CROPS |                                |          | PROP. ERTY | CROPS |            |          | PROP. ERTY | CROPS |           |  |  |  |

**CORRECTIONS**

|             |            |    |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |   |  |  |  |  |  |  |  |
|-------------|------------|----|---|--|--|--|--|--|--|--|--|--|--|--|--|---|---|--|--|---|---|---|--|--|--|--|--|--|--|
| CORRECTIONS | APRIL 1983 |    |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |   |  |  |  |  |  |  |  |
| Kentucky    |            |    |   |  |  |  |  |  |  |  |  |  |  |  |  | 0 | 0 |  |  | 6 | 4 |   |  |  |  |  |  |  |  |
| Kentucky    | MAY 1983   |    |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |   |  |  |  |  |  |  |  |
|             |            | 1  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   | 6 |  |  |  |  |  |  |  |
| Nebraska    | JUNE 1983  |    |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |   |  |  |  |  |  |  |  |
|             |            | 12 |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |   |  |  |  |  |  |  |  |
| New York    | APRIL 1983 |    |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |   |  |  |  |  |  |  |  |
|             |            |    |   |  |  |  |  |  |  |  |  |  |  |  |  | 5 |   |  |  |   |   |   |  |  |  |  |  |  |  |

**LATE REPORTS**

|               |               |    |    |   |     |   |  |   |   |   |    |   |   |   |   |   |   |   |    |   |   |   |  |  |  |  |  |  |  |
|---------------|---------------|----|----|---|-----|---|--|---|---|---|----|---|---|---|---|---|---|---|----|---|---|---|--|--|--|--|--|--|--|
| LATE REPORTS  | APRIL 1983    |    |    |   |     |   |  |   |   |   |    |   |   |   |   |   |   |   |    |   |   |   |  |  |  |  |  |  |  |
| Louisiana     |               | 11 | 3  | 2 | 27  | 6 |  | 5 | ? |   | 7  | 6 | ? |   |   |   | 6 | ? | 8  | ? |   |   |  |  |  |  |  |  |  |
| Louisiana     | JUNE 1983     |    |    |   |     |   |  |   |   |   |    |   |   |   |   |   |   |   |    |   |   |   |  |  |  |  |  |  |  |
|               |               | 1  | 1  |   |     |   |  | 3 |   |   | 1  | 5 |   |   | 5 |   |   |   |    |   |   |   |  |  |  |  |  |  |  |
| Maine         |               |    |    |   |     |   |  | 6 | ? |   | 6  | ? |   | 4 |   |   |   |   | 4  | ? |   |   |  |  |  |  |  |  |  |
| New Hampshire |               |    |    |   |     |   |  | ? | ? |   | 4  |   |   | 5 |   |   |   |   | 4  | ? |   |   |  |  |  |  |  |  |  |
| New York      | MAY 1983      |    |    |   |     |   |  |   |   |   |    |   |   |   |   |   |   |   |    |   |   |   |  |  |  |  |  |  |  |
|               |               | 11 | 1  | 4 | ?   | 8 |  | 1 | 6 | ? |    | 1 | 5 | 4 |   |   |   |   |    |   |   |   |  |  |  |  |  |  |  |
| Oregon        | FEBRUARY 1983 |    |    |   |     |   |  |   |   |   |    |   |   |   |   |   |   |   |    |   |   |   |  |  |  |  |  |  |  |
|               |               |    |    |   |     |   |  |   |   |   |    |   |   |   |   |   |   |   |    |   |   |   |  |  |  |  |  |  |  |
| Oregon        | MARCH 1983    |    |    |   |     |   |  |   |   |   |    |   |   |   |   |   |   |   |    |   |   |   |  |  |  |  |  |  |  |
|               |               | 1  | 1  |   |     | 4 |  |   |   |   |    |   |   |   |   |   |   |   |    |   |   |   |  |  |  |  |  |  |  |
| Oregon        | APRIL 1983    |    |    |   |     |   |  |   |   |   |    |   |   |   |   |   |   |   |    |   |   |   |  |  |  |  |  |  |  |
|               |               |    |    |   |     |   |  |   |   |   |    |   |   |   |   |   |   |   |    |   |   |   |  |  |  |  |  |  |  |
| Oregon        | JUNE 1983     |    |    |   |     |   |  |   |   |   |    |   |   |   |   |   |   |   |    |   |   |   |  |  |  |  |  |  |  |
|               |               | 2  | 2  |   |     | 3 |  | ? | ? |   |    |   |   |   |   |   |   |   |    |   |   |   |  |  |  |  |  |  |  |
| Texas         | APRIL 1983    |    |    |   |     |   |  |   |   |   |    |   |   |   |   |   |   |   |    |   |   |   |  |  |  |  |  |  |  |
|               |               | 1  | 1  |   |     | 4 |  | ? | ? | 3 | 29 | 6 | ? |   |   |   |   |   | 1  |   | ? | ? |  |  |  |  |  |  |  |
| Texas         | MAY 1983      |    |    |   |     |   |  |   |   |   |    |   |   |   |   |   |   |   |    |   |   |   |  |  |  |  |  |  |  |
|               |               | 62 | 15 | 5 | 102 | 8 |  | 8 | ? | 6 | 31 | 7 | ? |   | 1 | 5 |   | 6 | 24 | 7 | ? |   |  |  |  |  |  |  |  |
| Texas         | JUNE 1983     |    |    |   |     |   |  |   |   |   |    |   |   |   |   |   |   |   |    |   |   |   |  |  |  |  |  |  |  |
|               |               | 38 | 14 | 1 |     | 6 |  | 6 | 6 |   | 12 | 7 | 5 | 1 |   | 5 |   |   |    |   | ? | ? |  |  |  |  |  |  |  |

## REFERENCE NOTES

Storm damage categories are from 1 to 9 as follows:

- 1 Less than \$50
- 2 \$50 to \$500
- 3 \$500 to \$5,000
- 4 \$5,000 to \$50,000
- 5 \$50,000 to \$500,000
- 6 \$500,000 to \$5 Million
- 7 \$5 Million to \$50 Million
- 8 \$50 Million to \$500 Million
- 9 \$500 Million to \$5 Billion

- \* Miles instead of yards
- \*\* Yards instead of miles
- @ Includes heavy sleet storm
- # Freezing drizzle and freezing rain, commonly known as glaze
- ≠ Not received or incomplete
- o/c Under Estimated Damage, Property/Crops, indicates crop damage amount is included in the figure given

## Definition of Fujita Tornado Scale (F scale)

(F0) Gale tornado (40-72 mph): Light damage  
Some damage to chimneys; break branches off trees; push over shallow-rooted trees; damage sign boards.

(F1) Moderate tornado (73-112 mph): Moderate damage  
The lower limit (73 mph) is the beginning of hurricane wind speed; peel surface off roofs; mobile homes pushed off foundations or overturned; moving autos pushed off the roads.

(F2) Significant tornado (113-157 mph): Considerable damage  
Roofs torn off frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light-object missiles generated.

(F3) Severe tornado (158-206 mph): Severe damage  
Roofs and some walls torn off well-constructed houses; trains overturned; most trees in forest uprooted; heavy cars lifted off ground and thrown.

(F4) Devastating tornado (207-260 mph): Devastating damage  
Well-constructed houses leveled; structure with weak foundation blown off some distance; cars thrown and large missiles generated.

(F5) Incredible tornado (261-318 mph): Incredible damage  
Strong frame houses lifted off foundations and carried considerable distance to disintegrate; automobile-sized missiles fly through the air in excess of 100 m; trees debarked; incredible phenomena will occur.

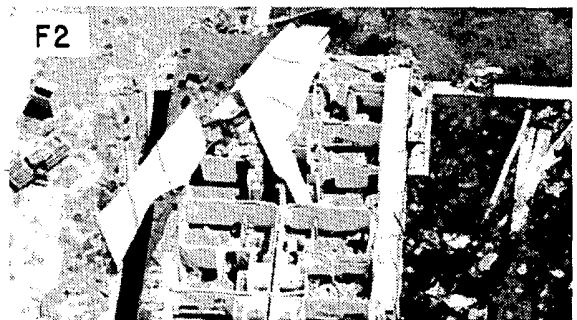
(F6-F12) (319 mph to Mach 1, the speed of sound):  
The maximum wind speeds of tornadoes are not expected to reach the F6 wind speeds.

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(F0+F1) *Weak Tornado*  
(F2+F3) *Strong Tornado*  
(F4+F5) *Violent Tornado*

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From J. Atmos. Sci., August 1981, p. 1517-1519



USCOMM-NOAA-ASHEVILLE, NC 1983-3050

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