

STORM DATA



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THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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NATIONAL CLIMATIC DATA CENTER, ASHEVILLE NORTH CAROLINA"
28801

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Support for this publication is provided in part by the Office of Naval Research,
Marine Meteorology Program, Dr. Robert F. Abbey, Jr., Director.
Extensive data collection efforts are provided by the National Weather Service.

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C O N T E N T S

Cover: A tree about to be pulled from the ground by a tornado that caused devastating damage to the Springbrook Nature Center in the northern suburbs of Minneapolis, Minnesota. The tornado was video-taped from a helicopter by a television crew as they circled to within 1/4 mile of the vortex (see TORNADO at MINNEAPOLIS, MINNESOTA, pages 10 through 12). ---Photo reproduced from a video by Tom Empey, KARE-TV, Minneapolis, MN.

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STORM DATA (ISSN 0039-1972)

The section on Outstanding Storms of the Month is prepared by Professor T. Theodore Fujita, editor, and Duane J. Stiegler, associate editor, the University of Chicago with funding by the U. S. Office of Naval Research. The Storm Data and Unusual Weather Phenomena narratives, and summaries of Hurricanes/Tropical Storms are prepared by the National Weather Service. The National Climatic Data Center compiles statistics on deaths, injuries, damage, and prepares the annual summaries of Tornadoes and Lightning. 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. Maps of zones used in the Storm Data and Unusual Weather Phenomena will be published in these editions; Eastern States: JAN, APR, JUL, OCT.
Central States: FEB, MAY, AUG, NOV.
Western States: MAR, JUN, SEP, DEC.

Storm Data is published monthly by the National Climatic Data Center.

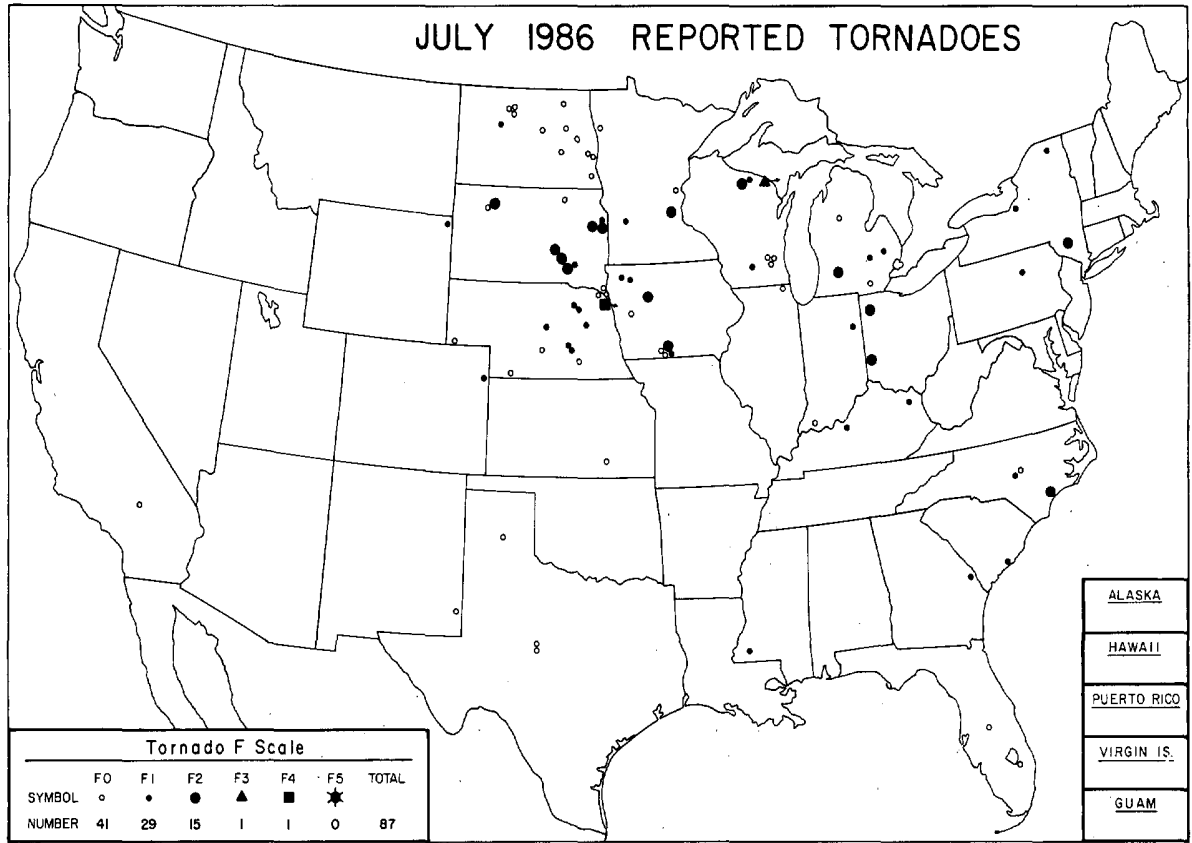
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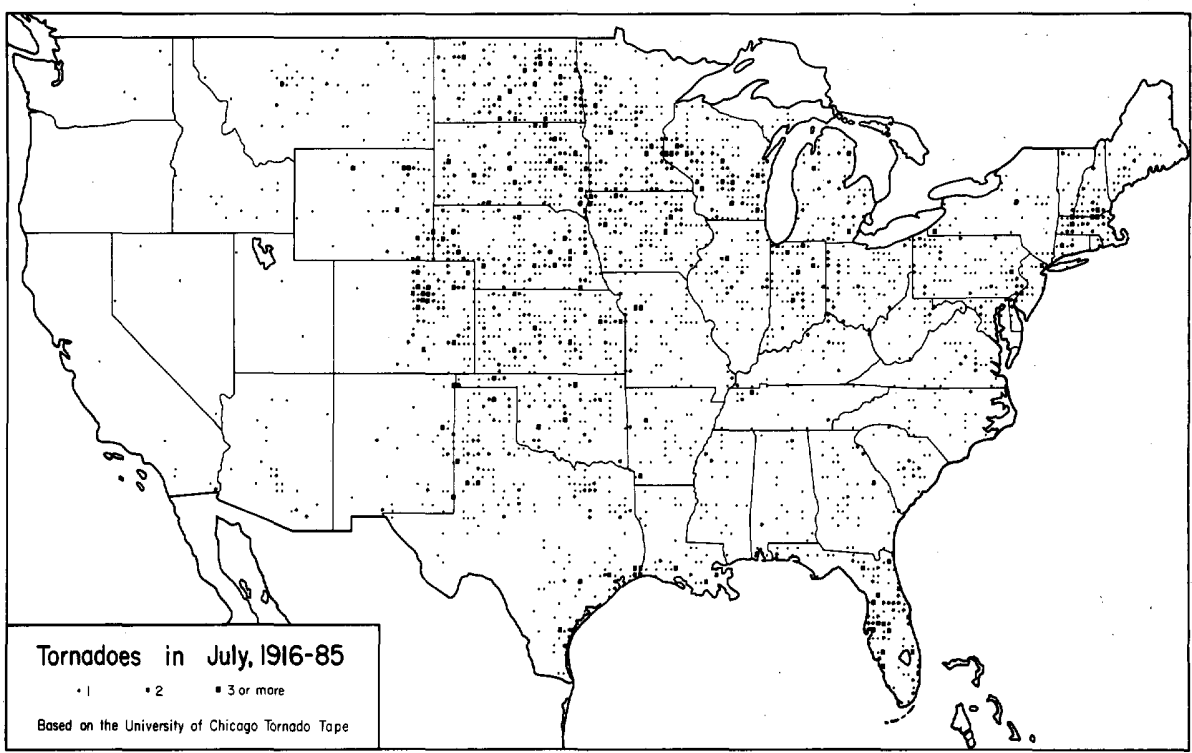
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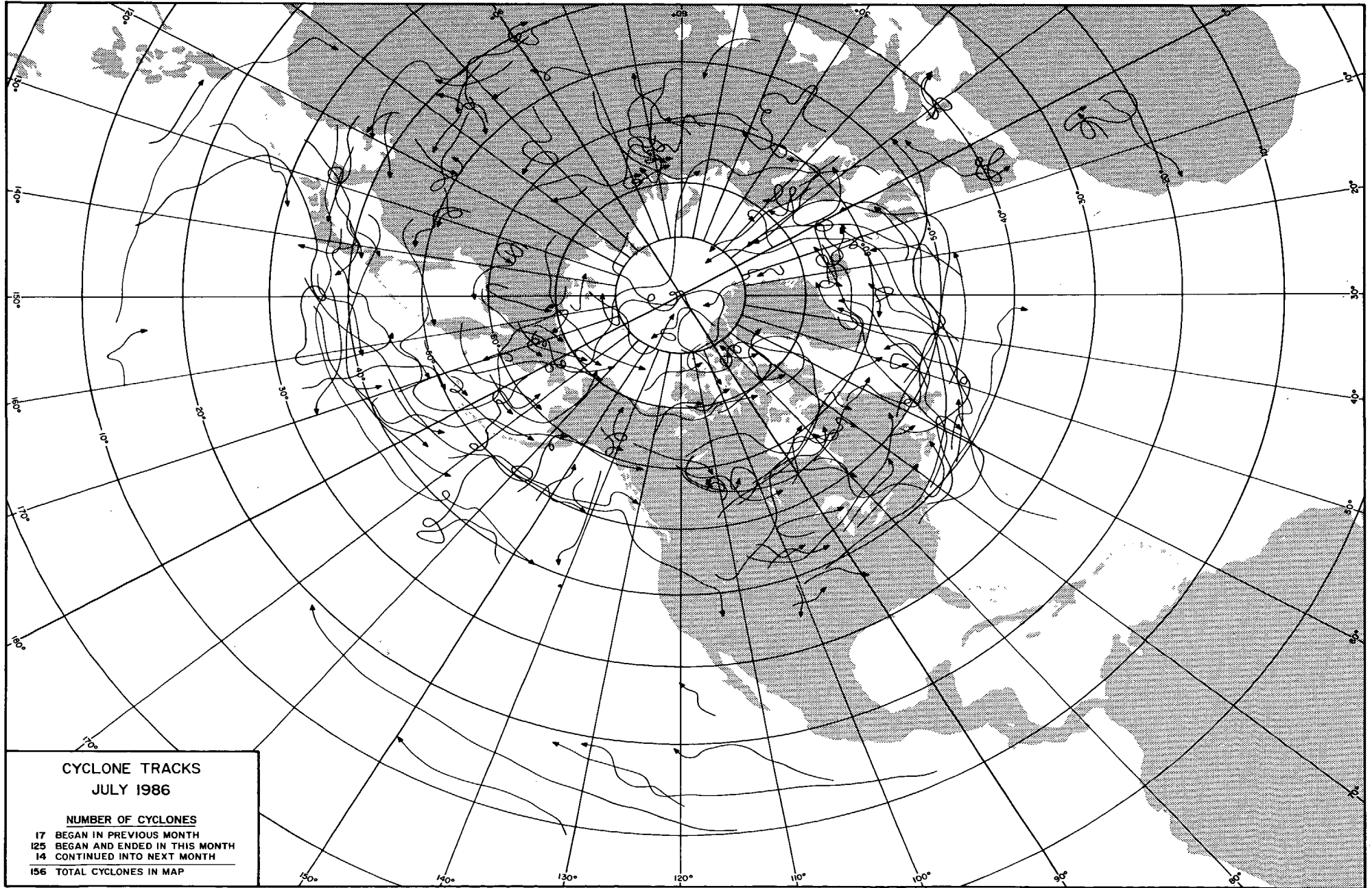
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OUTSTANDING STORMS OF THE MONTH



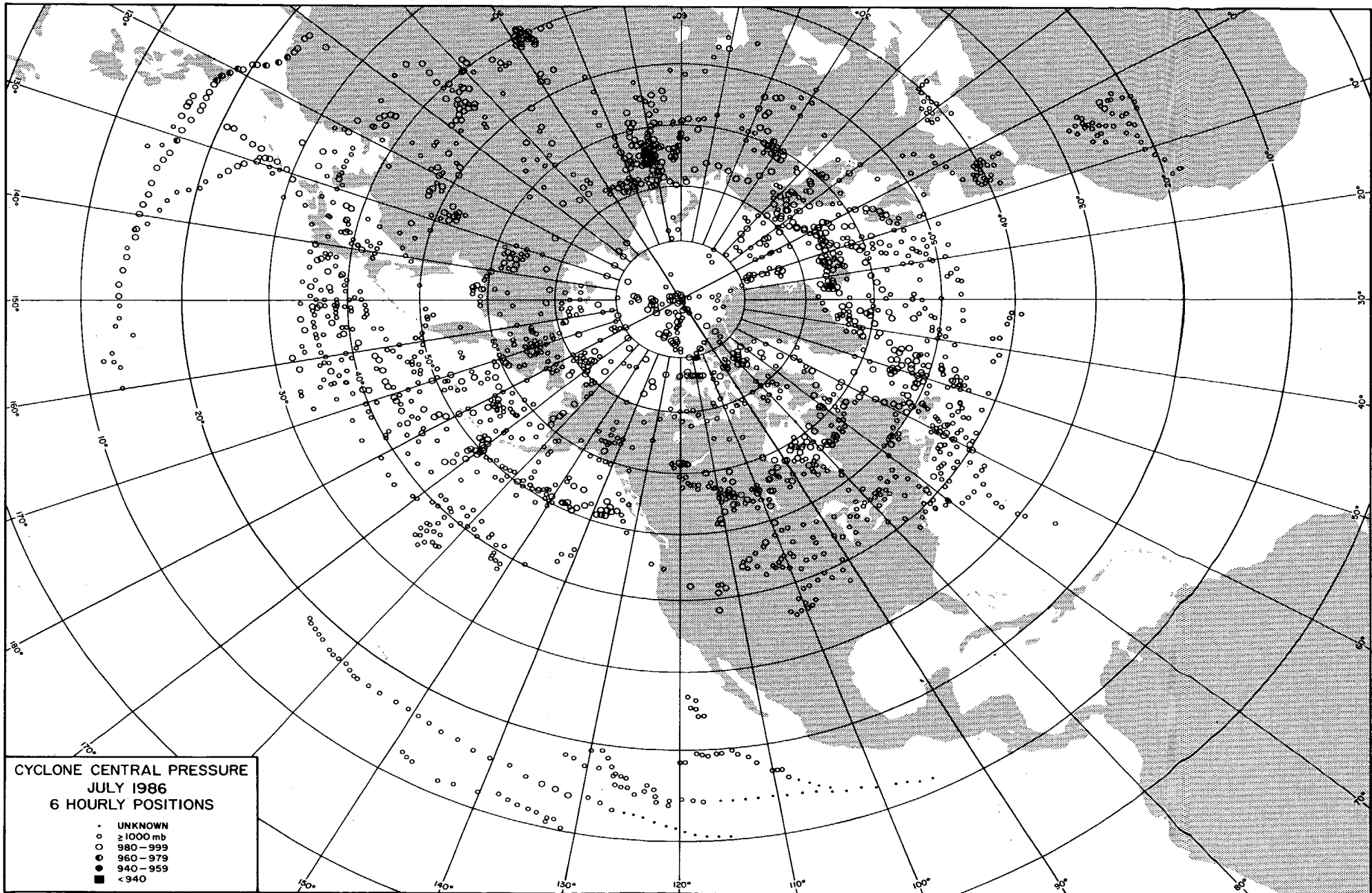
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**CYCLONE TRACKS
JULY 1986**

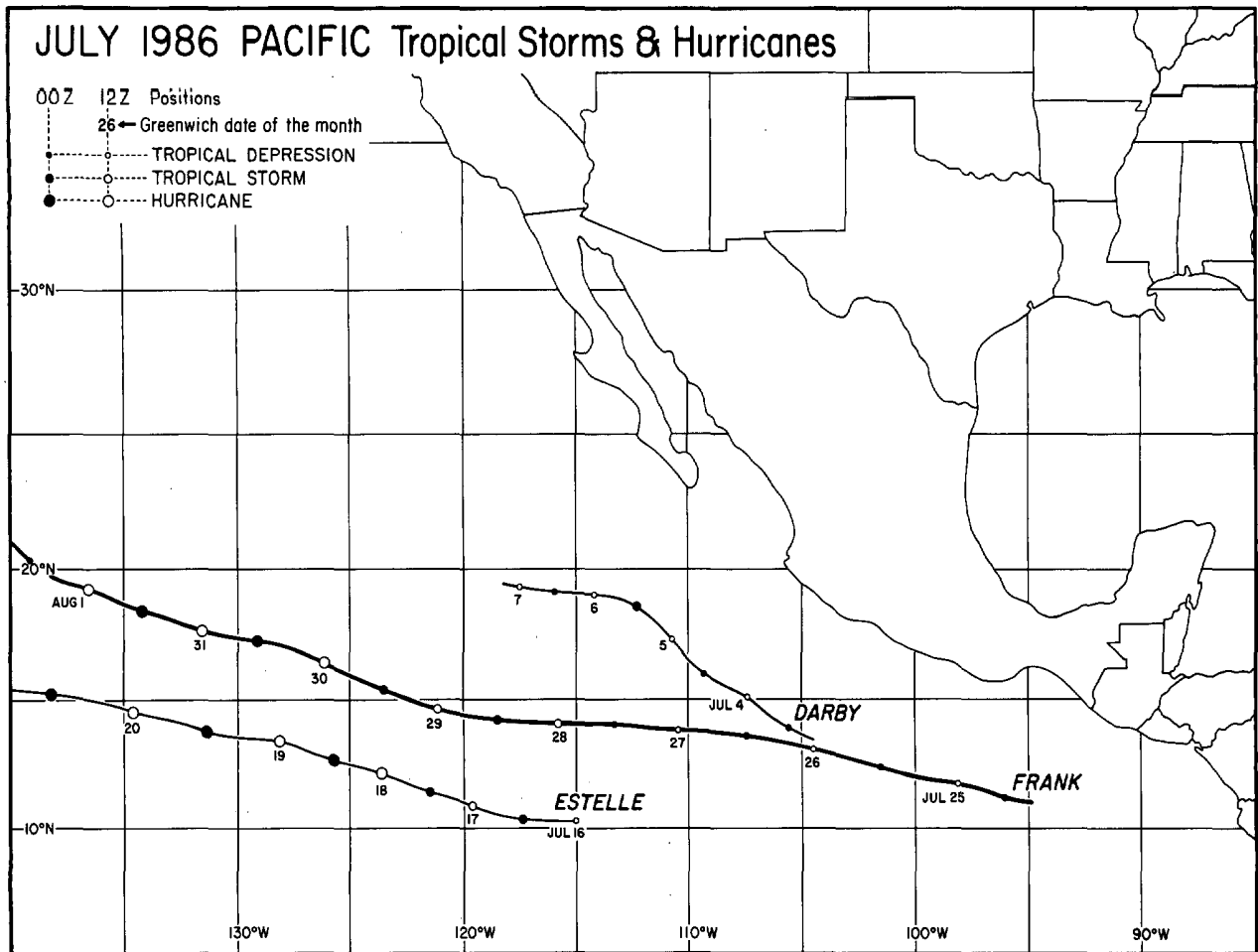
NUMBER OF CYCLONES
17 BEGAN IN PREVIOUS MONTH
125 BEGAN AND ENDED IN THIS MONTH
14 CONTINUED INTO NEXT MONTH
156 TOTAL CYCLONES IN MAP



**CYCLONE CENTRAL PRESSURE
JULY 1986
6 HOURLY POSITIONS**

- UNKNOWN
- ≥ 1000 mb
- ◐ 980 - 999
- ◑ 960 - 979
- ◒ 940 - 959
- < 940

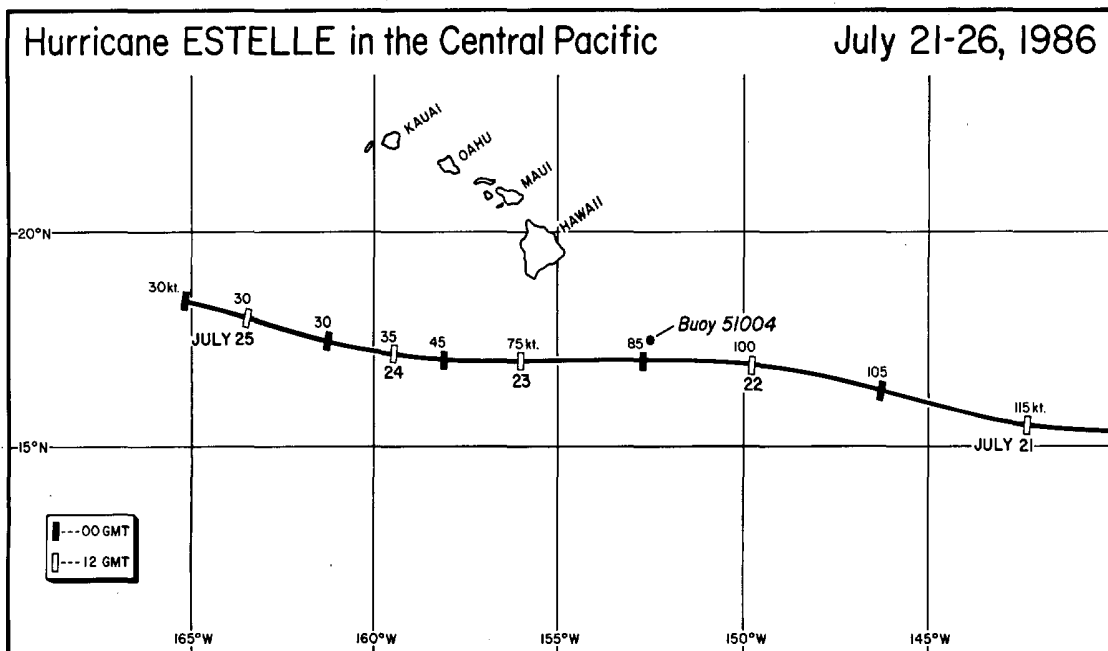
TROPICAL STORMS AND HURRICANES



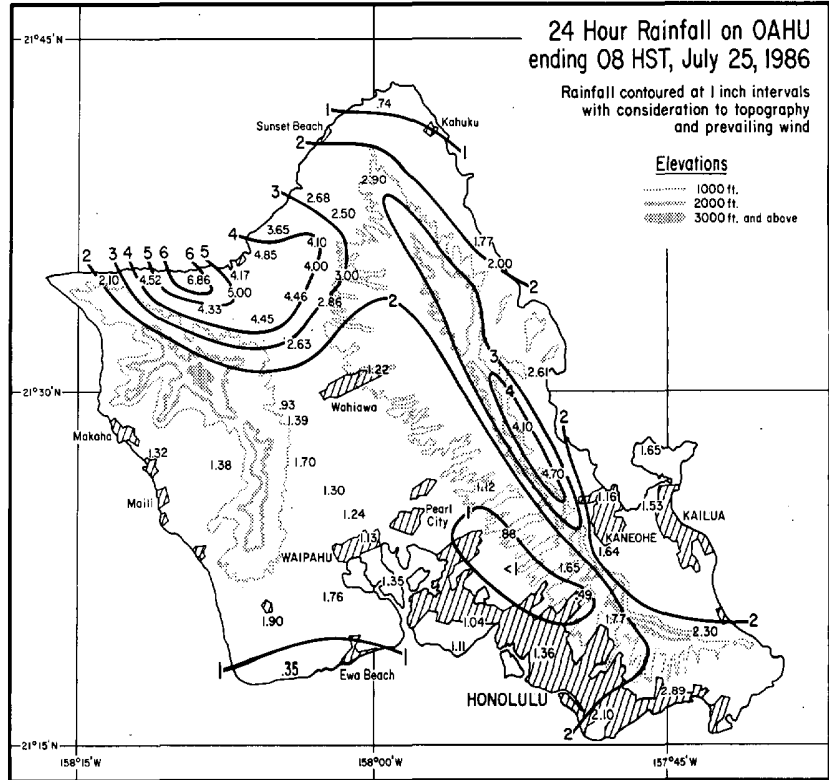
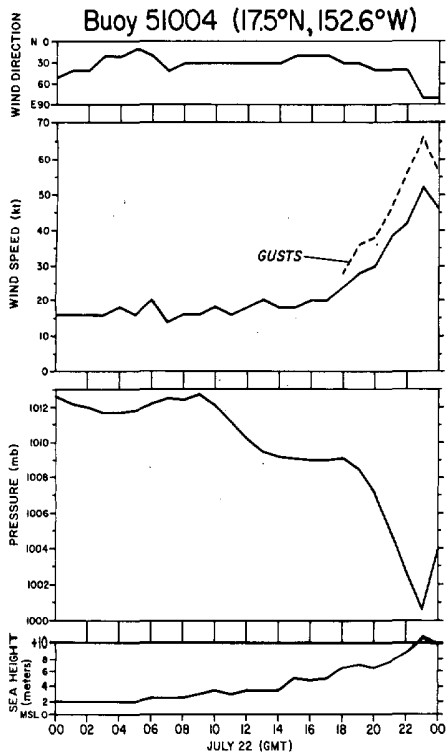
---Best track data from the NWSFO, San Francisco, California.

1. HURRICANE ESTELLE in the CENTRAL PACIFIC on July 21-26, 1986

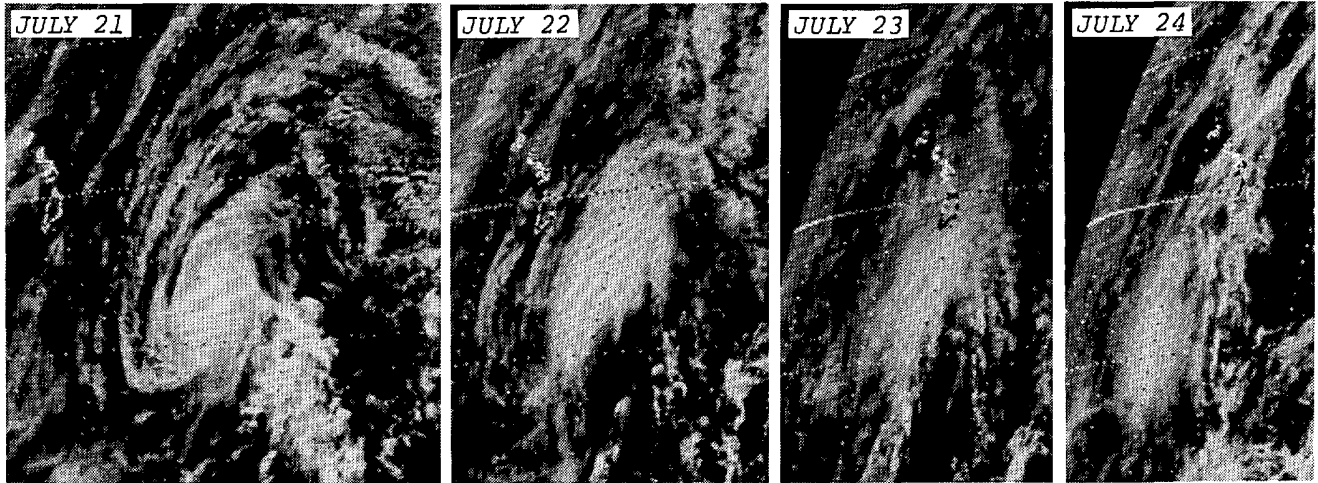
After forming in the Eastern Pacific on July 16th and quickly intensifying, ESTELLE became a hurricane on the 18th as it moved west-northwest toward the Hawaiian Islands. As ESTELLE moved through the Central Pacific on July 21st through the 26th, it gradually diminished and passed 120 nm south of Hawaii, but created high swells along the islands' eastern shores. ---Map from the Central Pacific Hurricane Center, Honolulu, HI.



HURRICANE ESTELLE ---- continued



LEFT: Meteorological data collected by Buoy 51004 as ESTELLE's center approached and passed just to its south on July 22nd (see location in map on previous page).
 RIGHT: 24 hour rainfall totals on Oahu that resulted from ESTELLE's passage.
 ---Both figures provided by the Central Pacific Hurricane Center, Honolulu, HI.



GOES 6 satellite, visible images of ESTELLE as it passed south of the Hawaiian Islands. Each photo was taken at 1830GMT on the shown dates. ---Photos from NESDIS.



Amassed debris, an eroded road, and a displaced home remain as vivid reminders of the 10 to 20 foot high surf that pounded the shoreline at Kapoho Beach near the Big Island's easternmost point on July 22nd.
 ---Photo by O. Almarza

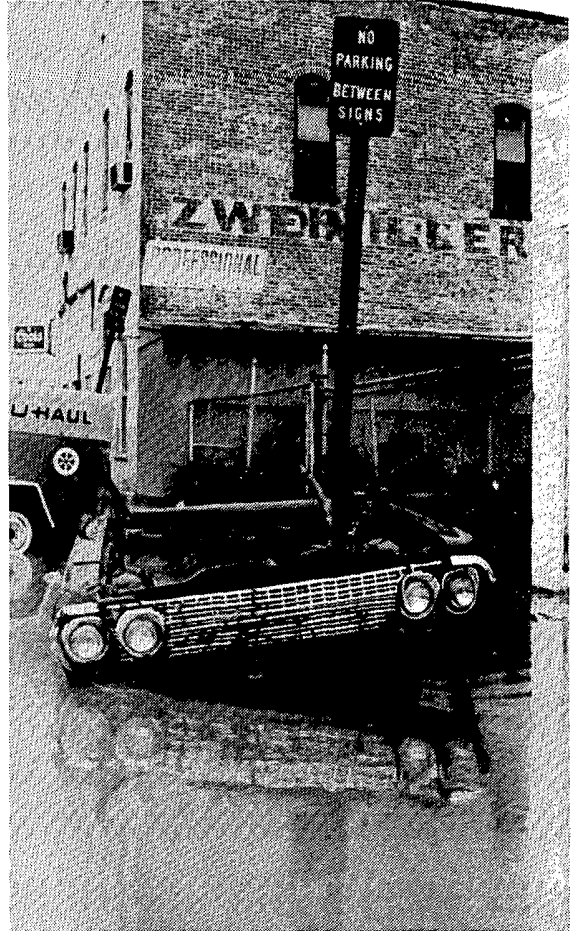
HURRICANE ESTELLE ---- continued



Additional examples of the structural and erosional damage that was sustained at Kapoho Beach on July 22nd. The large swells resulted from ESTELLE's rapid forward motion (20 knots) which was directed toward the islands while ESTELLE was still quite strong. The situation was aggravated by the fact that the waves arrived at a time of spring tides near full moon and during a period of high water induced by the cyclone itself as strong northeast winds gusting to near 50 mph blew parallel to the Puna and Kau Coast and piled water to its right toward the shore. ---All photos by O. Almarza, and supplied by the NWSFO, Honolulu, Hawaii.

2. FLASH FLOOD at LEAVENWORTH, KANSAS on July 6-7, 1986

Two periods of heavy rain on July 6th, one occurring during mid morning and the other during the evening, resulted in localized-but-major flash flooding in the city of Leavenworth, Kansas. Officially, 10.37 inches of rain fell at the Leavenworth Water Plant, and some unofficial amounts in the town were reported to be in excess of 12 inches. Although no deaths or injuries resulted, property damage was extensive. 50 homes and at least 15 businesses sustained damage, as did numerous vehicles.



Leavenworth Police officers rescuing motorists who became trapped in their car by the flood.

An oddity that resulted from the floodwater's flow.

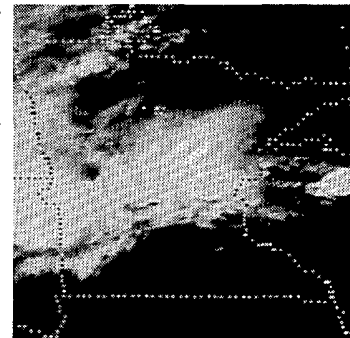
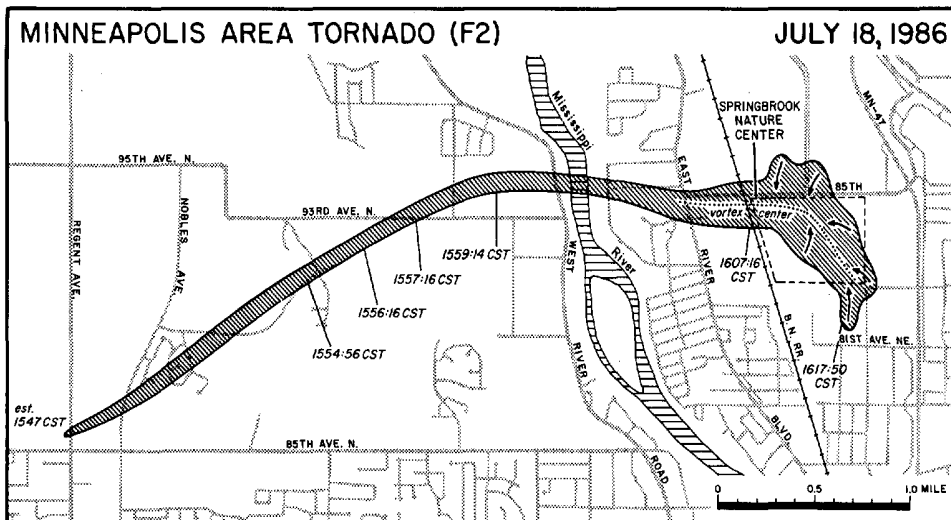


Large pieces of asphalt that were torn up and moved about by the floodwater along Cherokee Street in the downtown area.

---All photos are by William L. Davis, The Leavenworth Times, and are provided by the NWSFO at Topeka, Kansas.

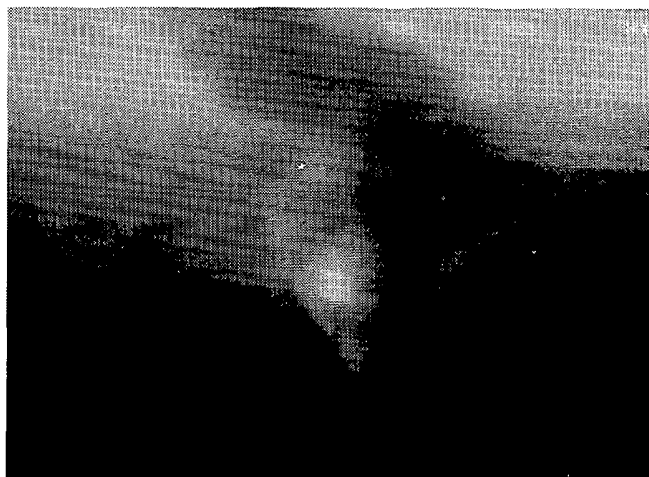
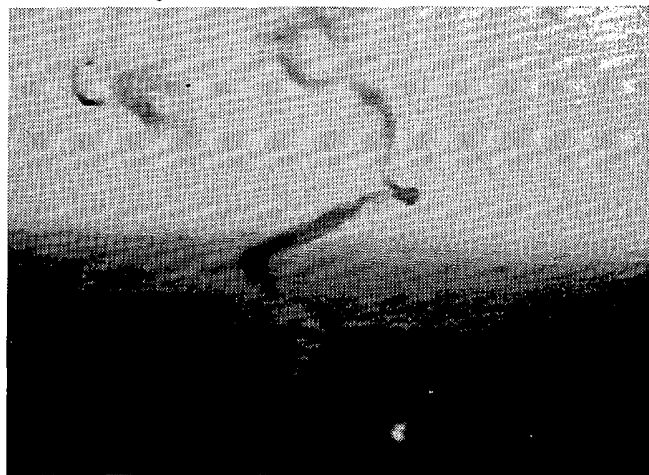
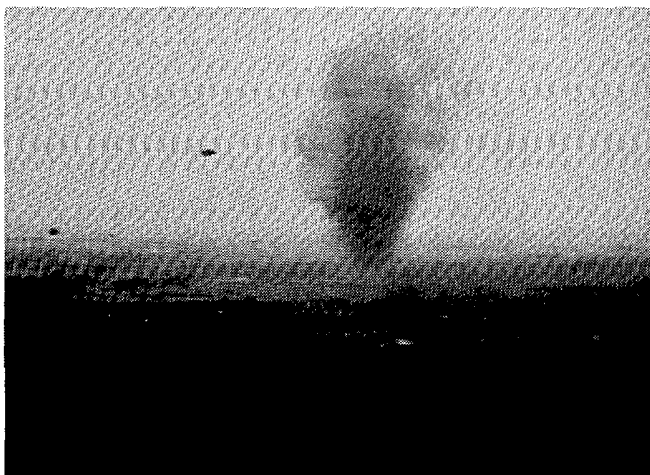
3. TORNADO at MINNEAPOLIS, MINNESOTA on July 18, 1986

In the afternoon of July 18th, a tornado that touched down in the northern suburbs of Minneapolis, Minnesota became one of the most observed and photographed tornadoes ever because of its duration and lack of translation in such an urban area. The photographic coverage included video from a Minnesota DOT traffic camera and a remarkable aerial video taken from helicopter by a television camera crew. The tornado began in Brooklyn Park (see map below) and moved slowly northeast at 12 mph, causing only light to moderate, intermittent damage. It then turned east and slowed as it crossed the Mississippi River and entered portions of Coon Rapids and Fridley. At its end, it became almost stationary as it spent over 10 minutes in the Springbrook Nature Center.

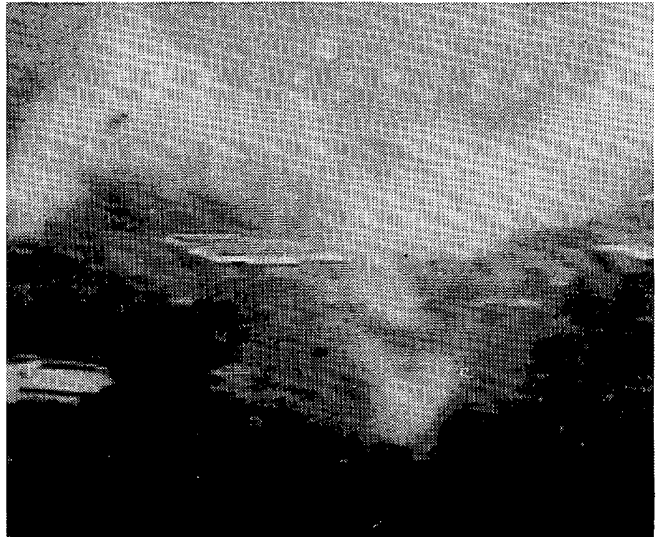
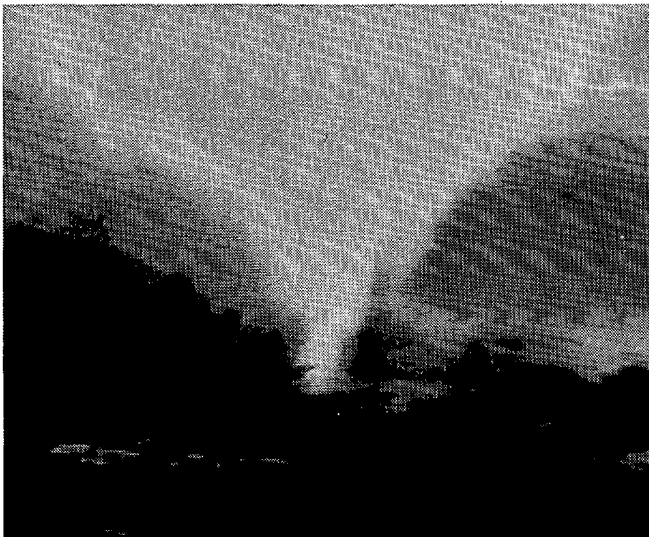
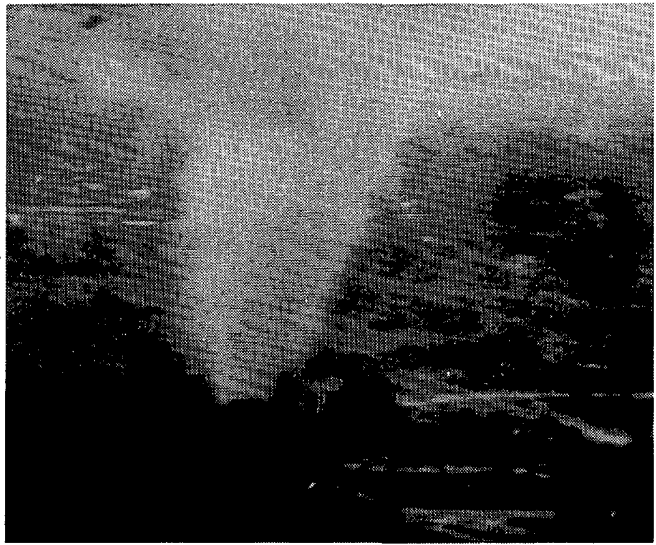
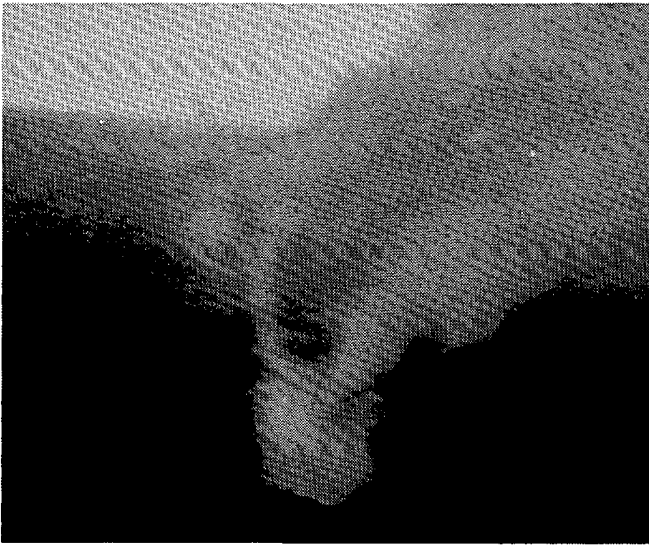
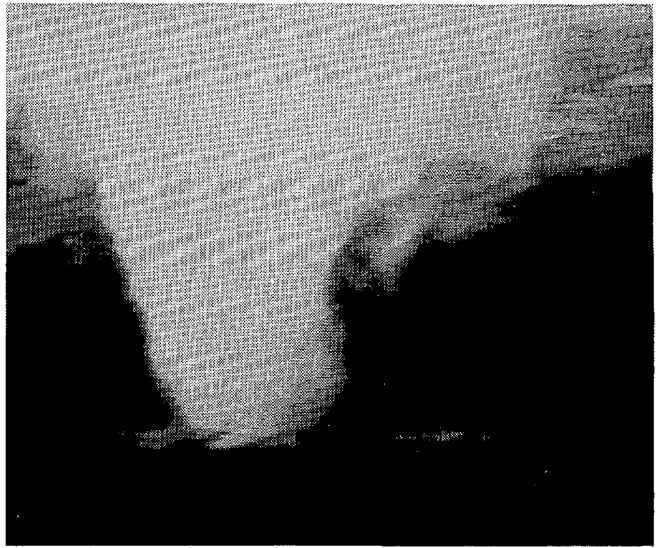
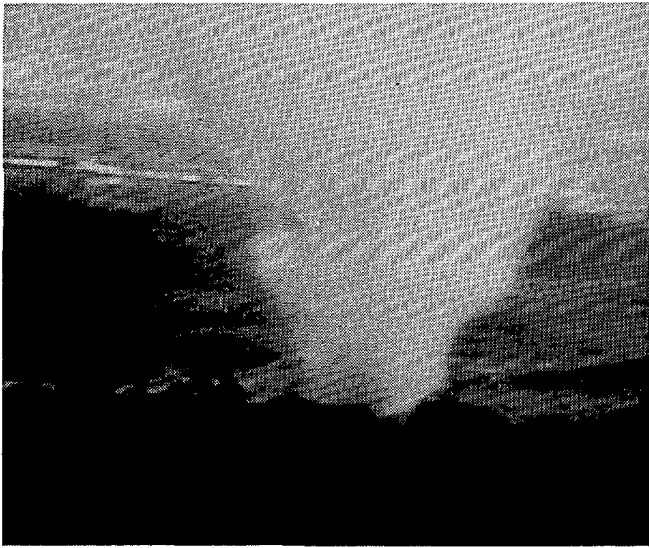


A GOES 6 satellite, visible image taken at 2131GMT (1531CST) shows that the tornado formed at the southern edge of a thunderstorm complex in central Minnesota.
 ---Photo from NESDIS.

---Map from surveys by Duane J. Stiegler, University of Chicago, and Earl Kuehnast, Minnesota State Climatology Office. Times from the MN DOT traffic camera at I-694 and Hwy. 100.

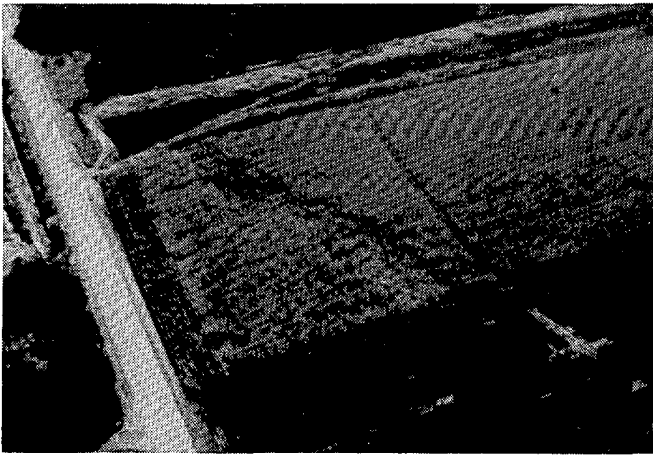


TORNADO at MINNEAPOLIS, MINNESOTA ---- continued



The tornado photos on pages 10 and 11 are from video tape taken from helicopter by a television crew of KARE-TV in Minneapolis. Cameraman Tom Empey shot the tape as the helicopter circled up to within 1/4 mile of the tornado during the later half of its life. The first four photos, on page 10, view the tornado from the east as it moved from the Mississippi River to the Springbrook Nature Center, approaching the copter enroute. The remaining photos show the tornado during its 10 minutes within the nature center as it ripped out trees, made meandering loops too small to be mapped, and induced strong surface inflow jets. ---Tape provided by Paul Douglas, KARE-TV, Minneapolis.

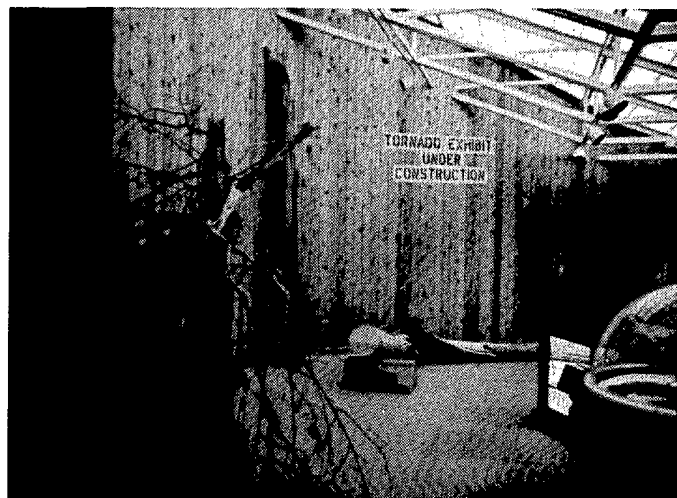
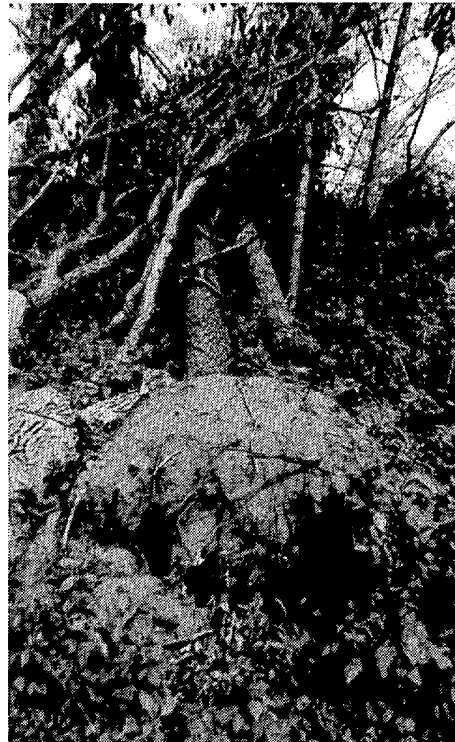
TORNADO at MINNEAPOLIS, MINNESOTA ---- continued



Stalks of corn brought down in the tornado's path as it crossed a field just south of 93rd Avenue N.



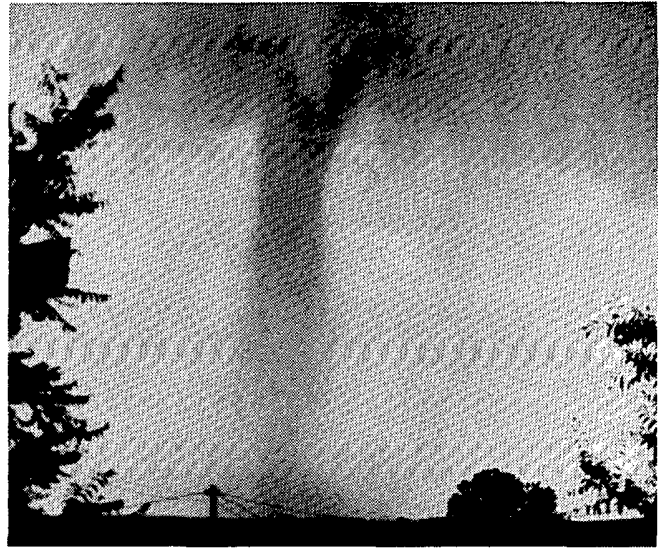
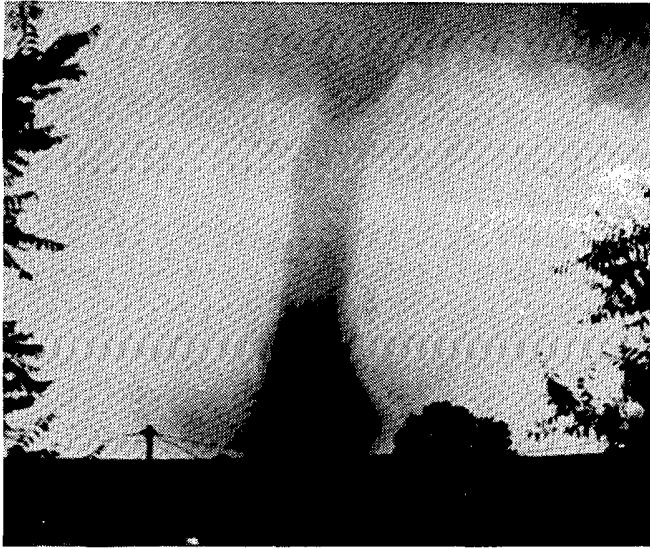
A portion of raised walkway over marshland in the Springbrook Nature Center that was ripped away by the tornado.



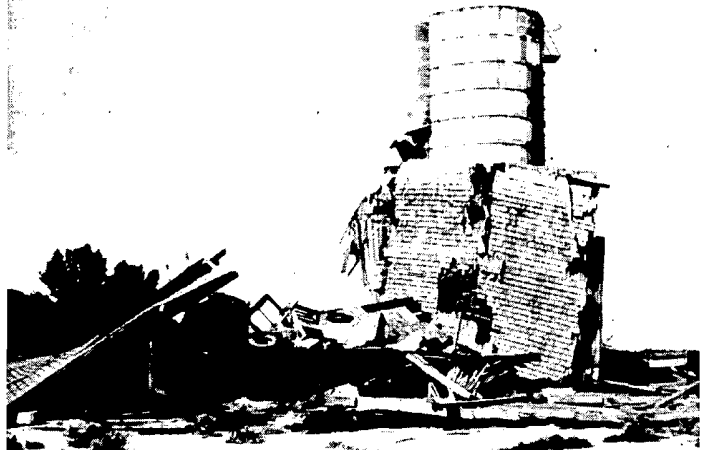
Examples of damage to the trees, mostly oak and aspen, in the nature center; some were brought into the exhibit building for display (bottom right).
---All above photos by Duane J. Stiegler, The University of Chicago.

4. TORNADOES in SOUTH DAKOTA on July 18, 1986

The photos below, taken by Peggy McClung of Meadow, South Dakota, are of a tornado that traveled 10.4 miles from south-southeast of Meadow to 14 miles west of Glad Valley in the north-central part of the state on the afternoon of July 18th. Surprisingly, the only reported damage was 6 toppled power poles and 30 torn-up bales of hay. ---Photos provided by the Bison Courier and supplied through the NWSFO at Sioux Falls, SD.

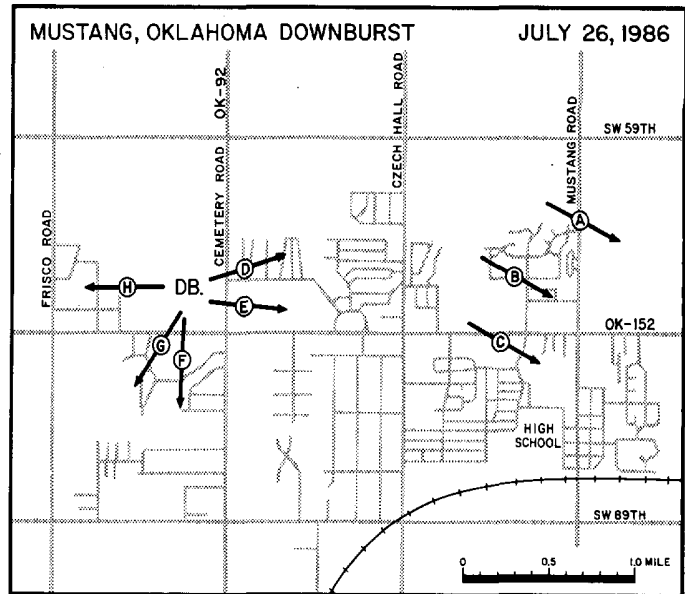


Another tornado, this one in eastern South Dakota on the same afternoon, traveled 14 miles across southern Hamlin County, doing more extensive damage to farms. The barn destruction at right took place just south of Lake Norden. ---Photo by Carol Noem; provided by the Dakotan, Bryant, SD; and supplied through the NWSFO at Sioux Falls, SD.

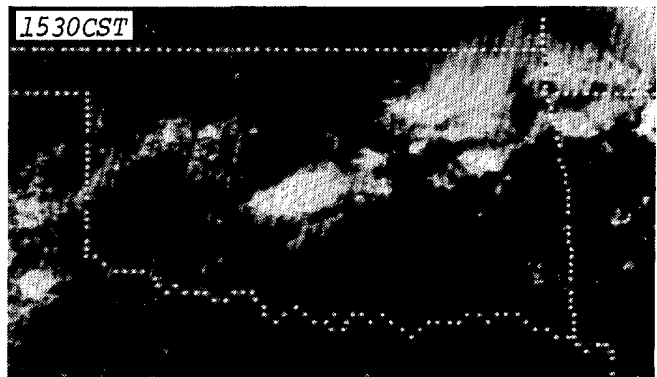
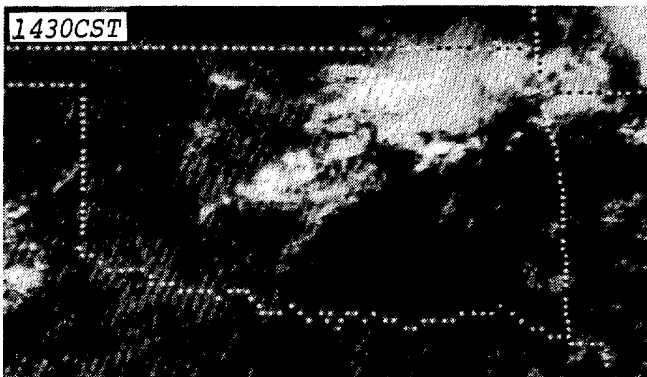


5. DOWNBURST at MUSTANG, OKLAHOMA on July 26, 1986

At about 1500CST on July 26th, an isolated thunderstorm produced downburst winds at Mustang, Oklahoma, 13 miles west-southwest of downtown Oklahoma City. Damage was widespread within Mustang, but its pattern clearly revealed that the winds radiated from a point just northwest of the intersection of State Highways 92 and 152 (see map at right), indicating that a small downburst, or microburst, descended to the ground at that point. A wind gust was measured at 91 mph atop the city hall at location C on the map, and the total damage was estimated at \$150,000. Notably, the event occurred only 6 miles west of Will Rogers Airport. ---Map and table (below) from a survey by Michael L. Branick, NWSFO, OKC.

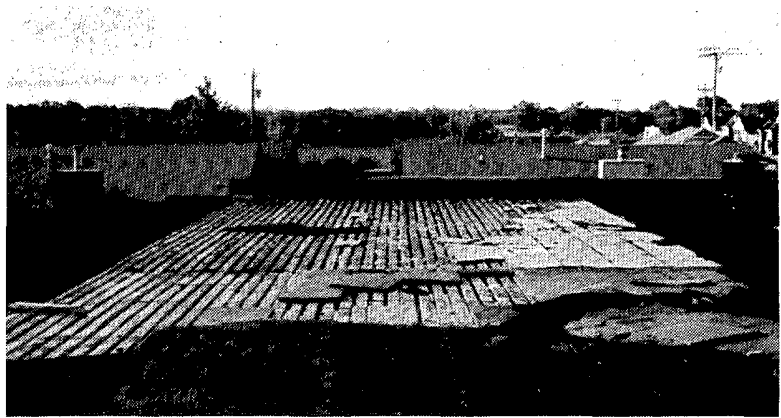
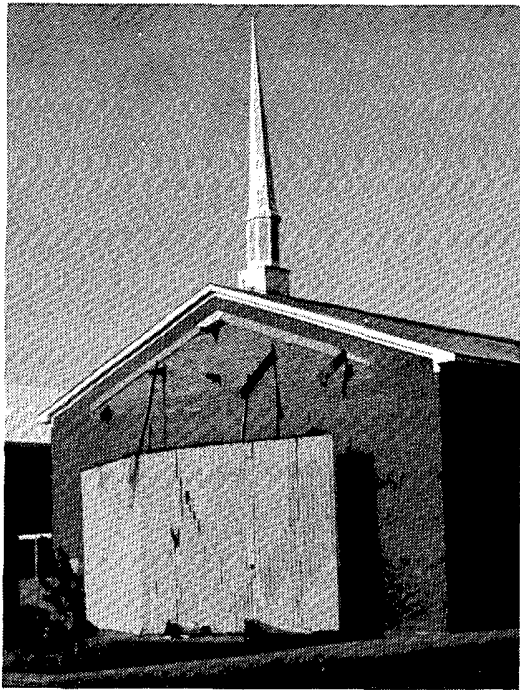


- LOCATION A: Roughly one-fifth of the roof-covering was ripped off of the northwest corner of a day care center on Mustang Road and deposited on the ground around a car canopy on the east side of the building. The damage to the roof allowed heavy rains to enter the building, resulting in considerable water damage to interior rooms. The facade on the west side of a First Baptist Church across the road collapsed because of the winds as well. The damaging winds were west-northwesterly.
- LOCATION B: Over 60 knot, west-northwesterly winds were reported from an NWS employee's residence shortly after 1500CST. The winds became easterly at 30 to 40 knots shortly afterward. Minor damage occurred in the area.
- LOCATION C: Wind equipment on the roof of the Mustang City Hall recorded a gust of 91 mph at 1501CST. Loose objects in the fire station were blown out through the doors which were opened by the winds. The winds were west-northwesterly and caused only minor damage in the area.
- LOCATION D: Widespread damage to shingles and wooden fences occurred at the Whippoorwill subdivision. One home lost a front porch roof and a portion of an adjacent garage roof. Damage occurred to some trees and chimneys, but char marks on some of the trees indicated that some of the damage resulted from lightning. Debris trails indicated that the damaging winds came from about 240° in the north end of the area, and from about 270° in the south end. Some fence components traveled several hundred feet.
- LOCATION E: A semi-trailer oriented north-south just south of the Whippoorwill subdivision was blown on its side. A nearby, 22-foot camper was overturned, rolled about 40 feet, and destroyed by the 280° winds.
- LOCATION F: At the Lakehoma subdivision, large tree limbs (1 foot diameter) were snapped off and blown onto a house, resulting in minor roof damage. The damage appeared to be from northerly winds, although other nearby trees with similar damage showed char marks indicative of lightning.
- LOCATION G: Just northeast of the Lakehoma subdivision, a metal outbuilding was blown from its foundation, turned around 180°, and destroyed. Several large branches (about 9 inch diameter) were snapped from a large, nearby tree. The wind was northeasterly.
- LOCATION H: Several outbuildings were heavily damaged or destroyed on Johnson Way. Several sheds sustained considerable damage as metal roof and siding components were torn off and blown about 100 feet. One home's rear porch was ripped off and blown over the home. Parts from the porch landed in the front yard and driveway, resulting in heavy damage to the windshield and dashboard of one vehicle. The winds were easterly.



GOES 6 satellite, visible images taken on July 26th show the isolated nature of the downburst-producing storm, and that the storm was still in a developing stage during the downburst's occurrence. ---Photos from NESDIS.

DOWNBURST at MUSTANG, OKLAHOMA ---- continued

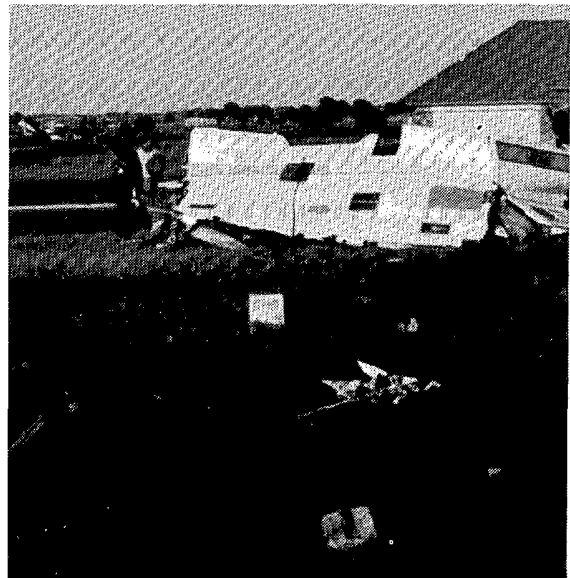


A day care center along Mustang Road that had roof covering peeled off by the winds from left to right in this north view (location A in the map).

LEFT: Mustang's First Baptist Church with its portico collapsed. The church is also situated along Mustang Road (location A, looking northeast).



A home in the Whippoorwill subdivision that had a portion of its roof torn off of the front porch and garage (location D, looking south-east). The garage roof was already covered with temporary, protective plastic at the time of the photo.



A camper that was rolled by the winds from the location at the lower left of the photo (location E, looking east).



Fence damage caused by west or west-southwest winds on the western edge of the Whippoorwill subdivision (location D, looking northeast).



Snapped and twisted tree branches along Highway 152 (location G, looking south).

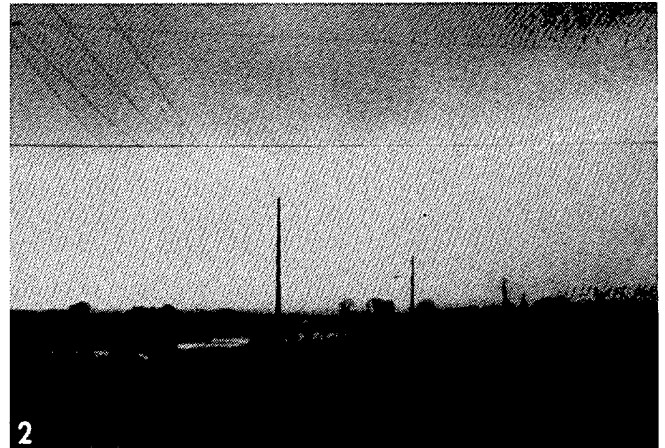
---All photos by Michael L. Branick, NWSFO, Oklahoma City, OK.

6. MICROBURST at IDAHO FALLS, IDAHO on July 2, 1986

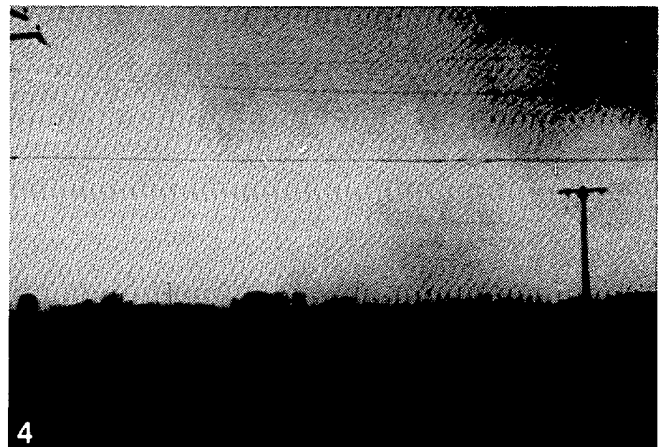
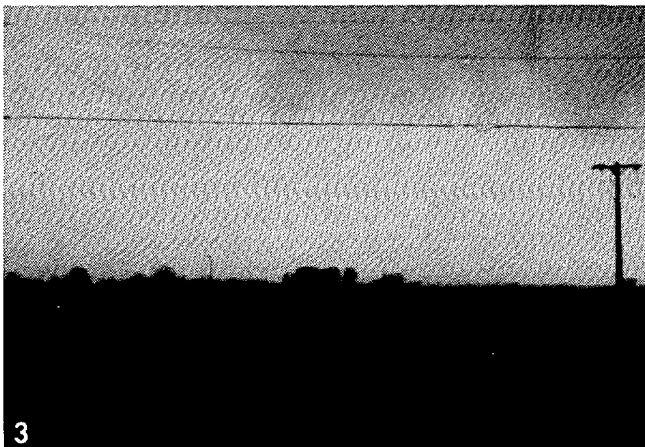
In the early evening of July 2nd, a thunderstorm over Idaho Falls, Idaho produced a microburst, a phenomena found to be associated with several past low-altitude aviation accidents, very near to the south edge of the airport on the west side of the city. Since no damage occurred and operations at the airport were unaffected, the event might have gone unnoticed had it not been observed and photographed while in progress. Only light rain and occasional lightning accompanied the sudden winds.



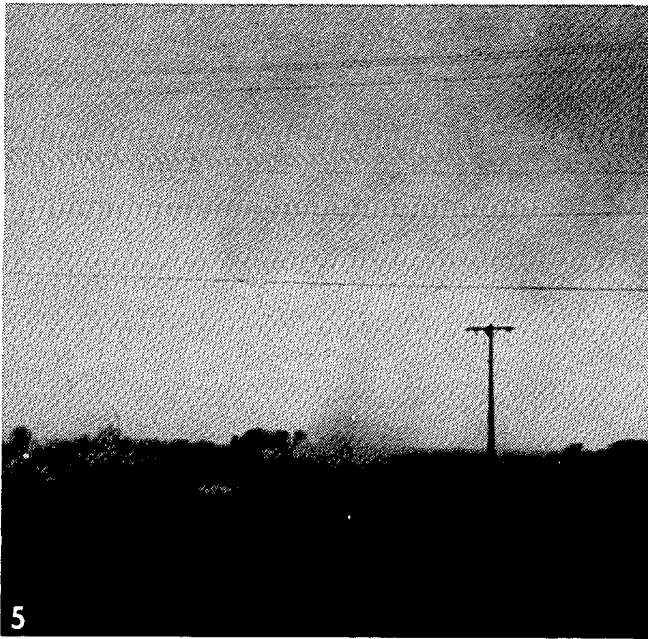
The thunderstorm base viewed toward the west from the east side of the city at 1755MST.



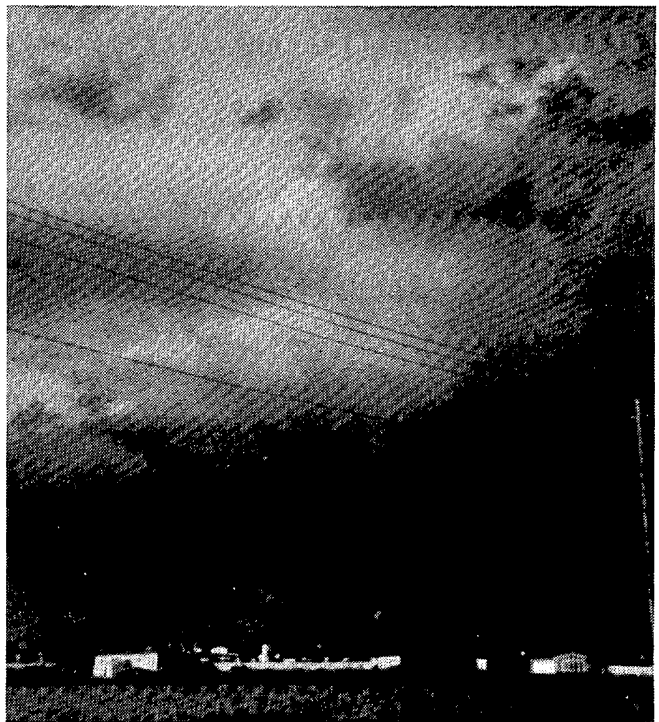
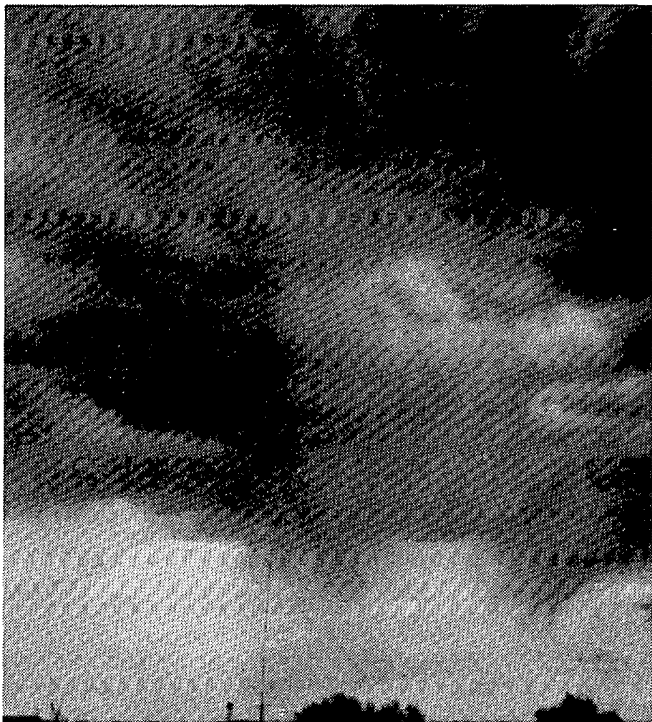
Viewed toward the west from the west side of Idaho Falls, a cloud of dust is raised by the microburst's descending air current at 1808MST. This first horizontal vortex about 200 yards away, is shown moving from left to right (north) toward the airport in the two photo sequence (photos 1 and 2).



MICROBURST at IDAHO FALLS, IDAHO ---- continued



Also at 1808MST, just seconds after photos 1 and 2 were taken, a second horizontal vortex was captured in the photo sequence numbered 3 through 6. The vortex moved northeast toward the photographer, starting from about 100 feet away. A sudden increase in the wind was felt by the photographer at the time photo number 5 was taken. All of the photos were taken just seconds apart.



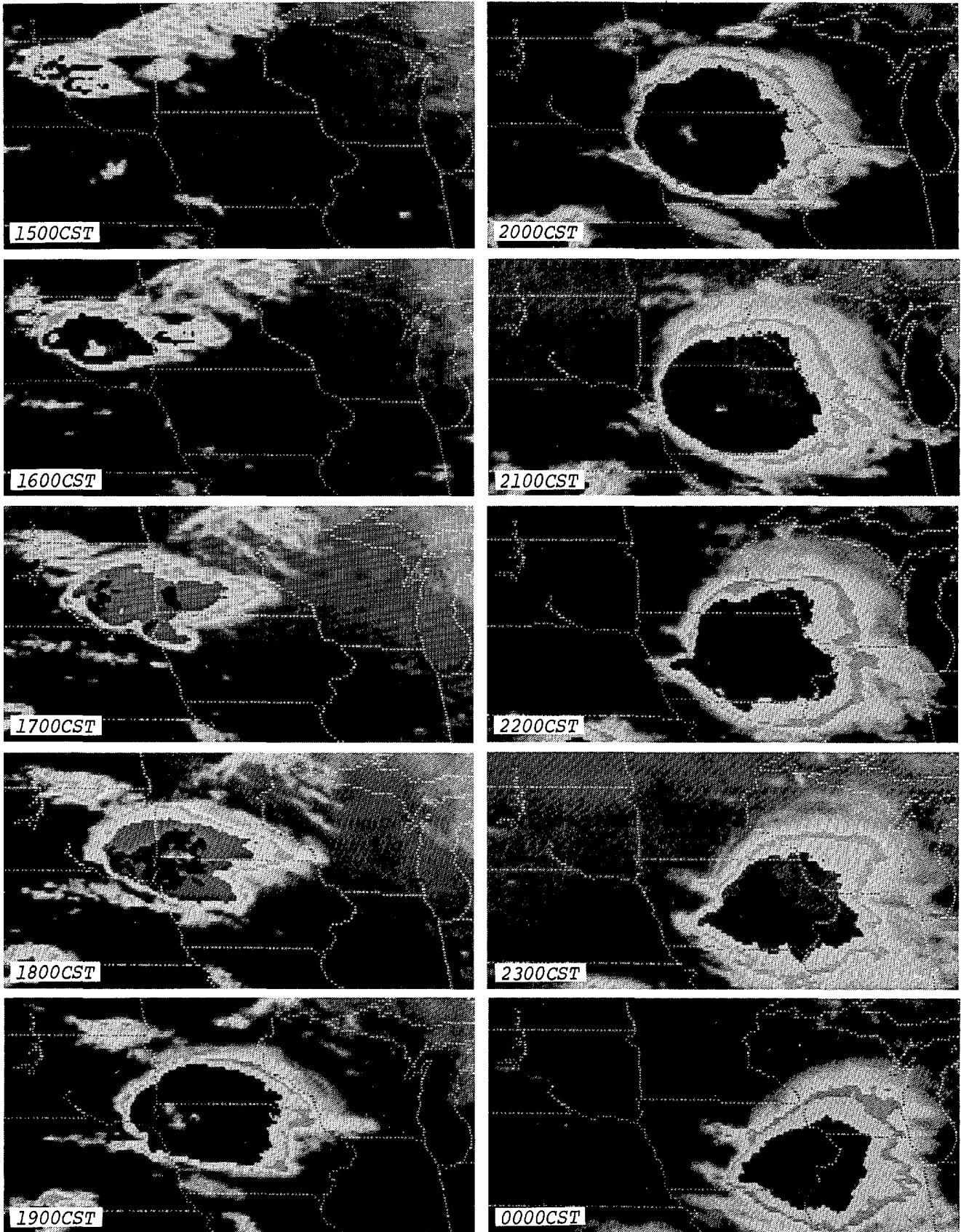
A northeast view of the cloud base at 1812MST, after the microburst had passed. A Boeing 737 had taken off from the airport toward the southwest at 1811MST without problem, as the winds did not affect the airport. An FAA observer never noticed anything unusual on the airport grounds, although he suspected that the storm might be hazardous.

A northeast view of the storm at 1834MST as it continued northeast out of the area. At 1815MST, a 40 mph wind gust was observed at KIFI-TV in east Idaho Falls.

---All photos on pages 16 and 17 are by Dave Miller, KIFI-TV, Idaho Falls, Idaho.

7. MESOSCALE CONVECTIVE COMPLEX in the NORTHERN PLAINS on July 28, 1986

A group of thunderstorms that formed in central South Dakota during the afternoon of July 28th moved southeast and consolidated into a mesoscale convective complex (MCC) that traversed Iowa that evening. Enroute, the storm system produced widespread damaging winds, hail, and numerous tornadoes of which one was F4 in intensity.



Hourly, GOES 6 satellite, infrared images show the movement and development of the MCC from 1500CST on July 28th to 0000CST on the 29th. ---Photos from NESDIS.

7a. THUNDERSTORM WINDS at BOONE, IOWA on July 28, 1986

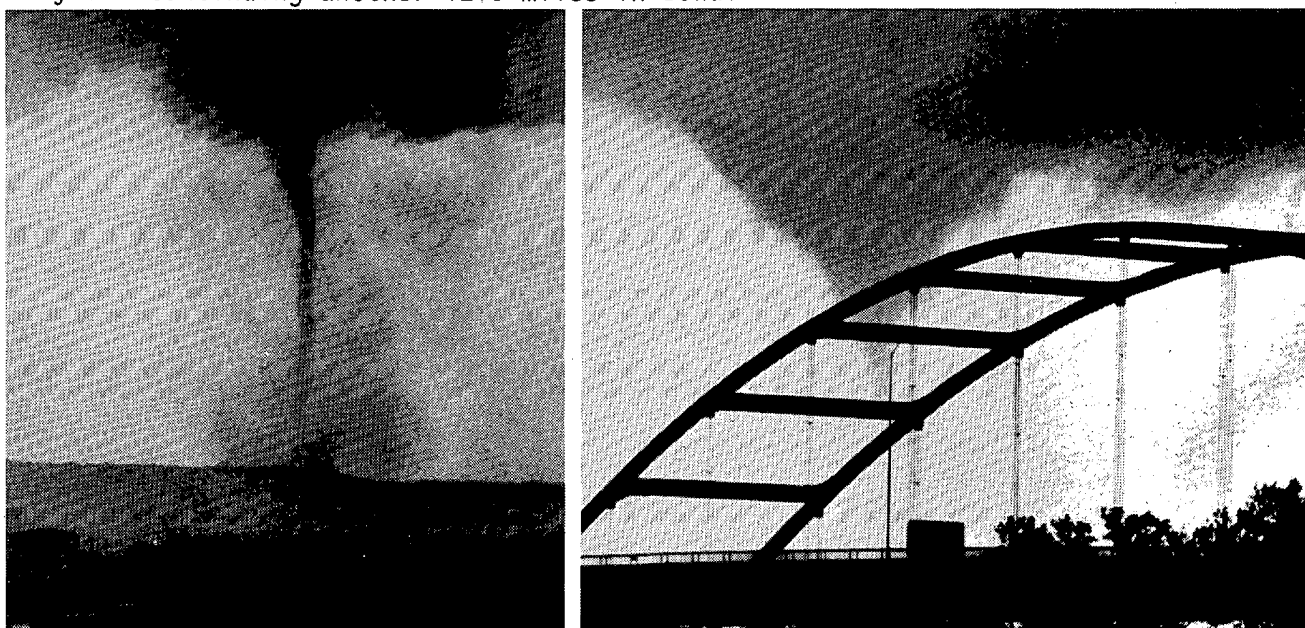
A spectacular event resulting from the MCC's high winds in central Iowa was the derailment of 18 piggyback trailer cars of a westbound freight train as it crossed the Kate Shelley Bridge over the Des Moines River near Boone. 16 of the cars carrying drums of chemicals, bags of insecticide, cookies, and B-1 bomber parts, fell 187 feet to the river below. Bridge and environmental damages were minimal.



The derailment scene on the morning of July 29th. ---Photo by W. Taylor, The Des Moines Register.

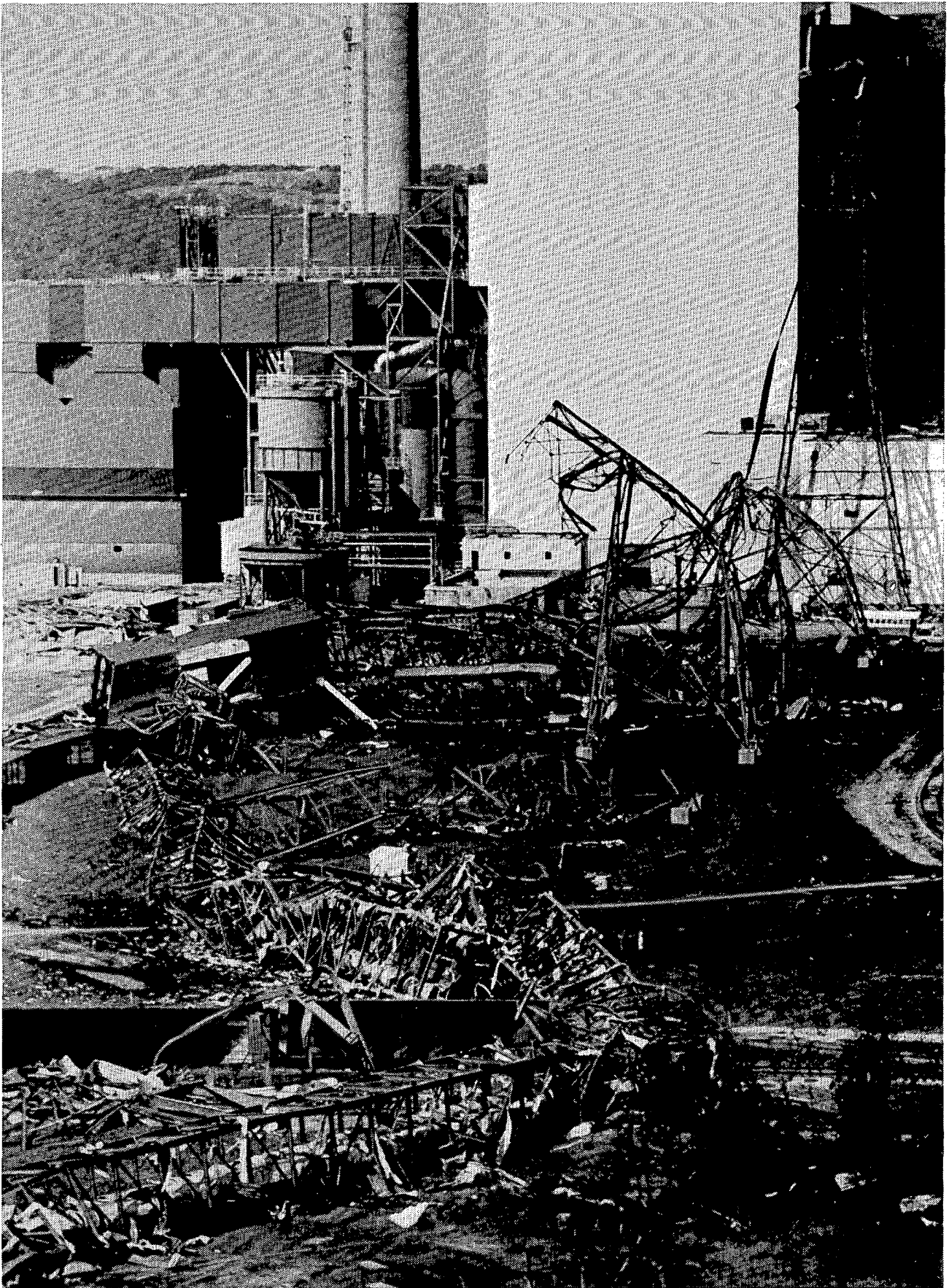
7b. TORNADO near SIOUX CITY, IOWA on July 28, 1986

Another phenomena associated with the MCC was an F4 tornado that, after crossing into Iowa from Nebraska, struck a coal-burning power plant near Sloan, causing between 25 and 50 million dollars worth of damage. The tornado traveled southeast 55 miles through extreme northeast Nebraska before crossing the Missouri River south of Sioux City and continuing another 12.5 miles in Iowa.

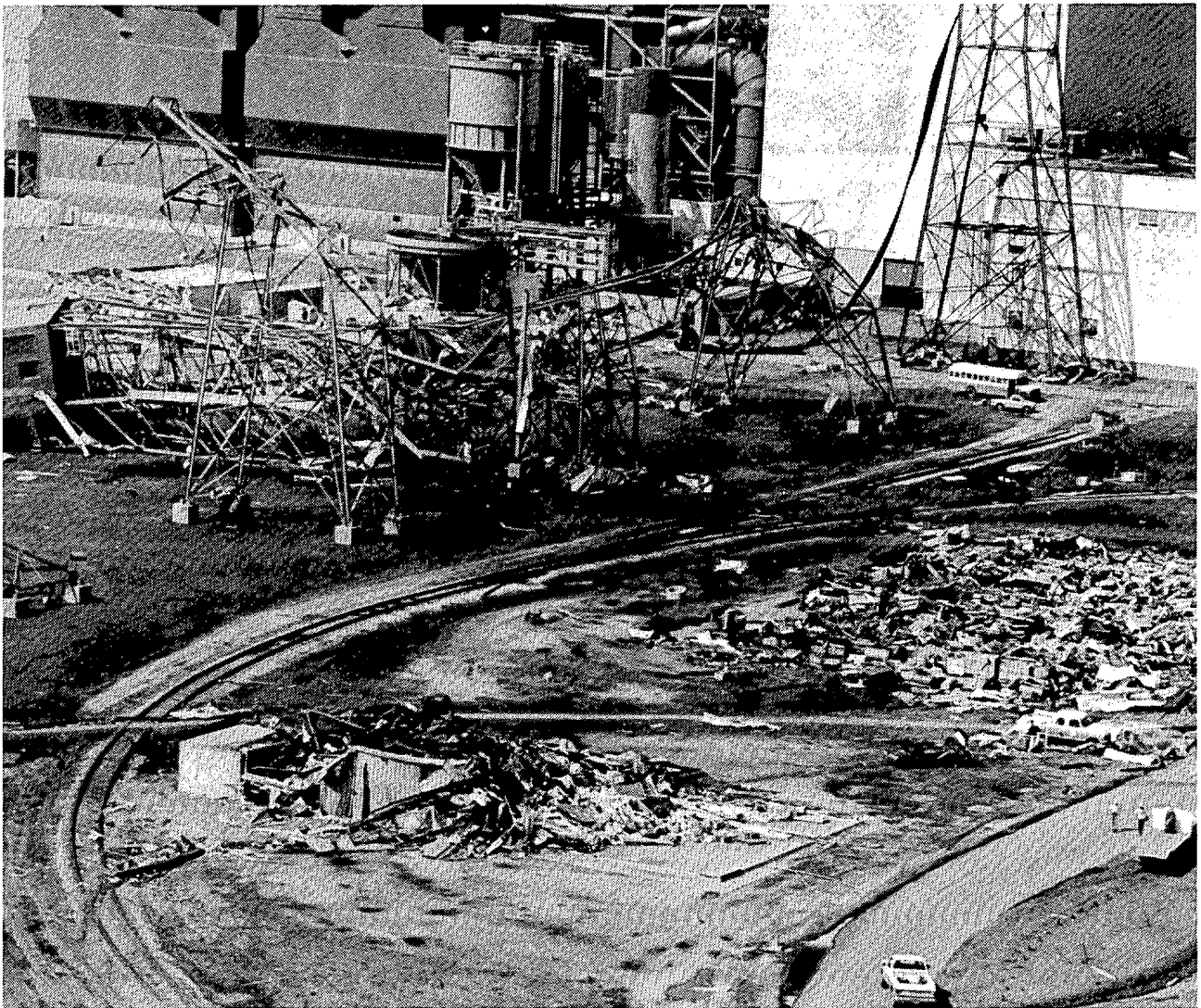


The tornado as it moved through Nebraska, southwest of Sioux City. ---Both photos by Ed Porter, The Sioux City Journal.

TORNADO near SIOUX CITY, IOWA ---- continued



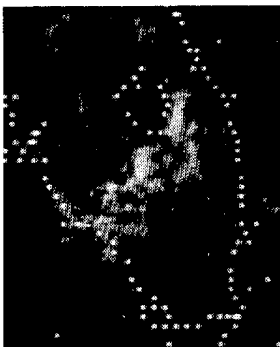
A coal conveyor that was demolished by the tornado at the Port Neal No. 4 generating station of the Iowa Public Service Company. Except for the containment building, almost every structure at the station, located on the Iowa side of the Missouri River near Sloan, received severe damage. ---Photo by Gary Anderson, The Sioux City Journal.



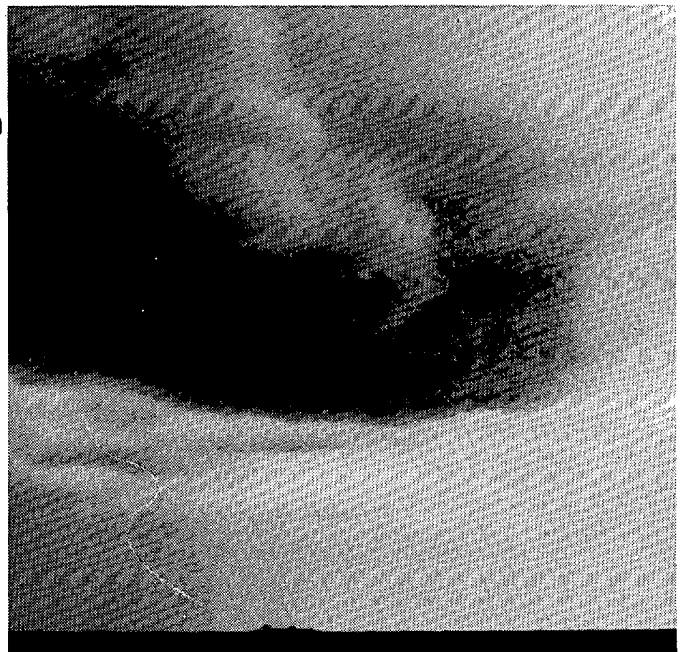
Destroyed parts warehouses near the power plant's conveyor. The buildings contained equipment valued at \$4.5 million. ---Photo by Gary Anderson, The Sioux City Journal.

8. TORNADO at BELLE GLADE, FLORIDA on July 14, 1986

At about 1600EST on July 14th, a small, short-lived tornado touched down near Belle Glade, Florida from a rather innocuous-looking cloud system. Although the tornado's condensation funnel never extended further than shown at right, a vortex circulation was apparent at the ground for a few seconds. ---Photo by Jack "Thunderhead" Corso, © 1986.



LEFT: A GOES 6 satellite, visible image of the tornado-producing cloud system at 1630 EST. Belle Glade is located at the south-east edge of Lake Okeechobee. ---Photo from NESDIS.



STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED ¹ DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
1 ALABAMA									
Florence area, Lauderdale County	13	1443CST			0	0	3	0	Thunderstorm/Wind
			Thunderstorm winds caused minor damage to two buildings and downed some trees and powerlines.						
Athens, Limestone County	13	1510CST			0	0	3	0	Lightning
			A lightning strike resulted in damage to three buildings in downtown Athens. The lightning bolt hit the electric meter bases outside the buildings and the roof of one of the buildings where a fire resulted.						
Cullman area, Cullman County	13	1530CST			0	0	3	0	Thunderstorm/Wind
			Thunderstorm winds downed a few trees and falling trees downed some powerlines.						
Birmingham area, Jefferson County	13	1630CST			0	0	3	0	Thunderstorm/Wind
			Thunderstorm winds downed a few trees and falling trees downed a few powerlines mainly in the south part of the metro area.						
Talladega, Talladega County	13	1805CST			0	0	4	0	Lightning
			An unoccupied home was heavily damaged by a fire that resulted from a lightning strike.						
Marion Junction, Dallas County	13	1927CST			0	0	4	0	Thunderstorm/Wind
			Thunderstorm winds downed several trees in the Marion Junction area. Trees blocked Alabama Highway 22 and Dallas County 201. One home was damaged by a falling tree and one farm building was destroyed. Intense lightning strikes caused power outages.						
Escambia County	14	1430CST			0	0	?	?	Thunderstorm/Wind
			Several large trees were reported blown down NE of Brewton.						
Mount Moriah, Clay County	14	2030CST			0	0	3	0	Thunderstorm/Wind
			Thunderstorm winds uprooted trees and damaged a chicken house.						
Adamsville area, Jefferson County	17	1430CST			0	0	2	0	Thunderstorm/Wind
			Thunderstorm winds downed a few trees.						
Noccalula Falls, Etowah County	17	1510CST			0	0	3	0	Thunderstorm/Wind
			Thunderstorm winds damaged some trees and the roofs of three barns. Hail to marble size was also reported.						
Waterloo area, Lauderdale County	17	1600CST			0	0	4	0	Thunderstorm/Wind
			Downburst thunderstorm winds hit camping areas on Wind both sides of a creek and left a damage path about 100 yards wide and 1 mile long. Damage was confined to trees, powerlines and a sailboat that was still on a trailer. A second downburst occurred about the same time 1 1/2 miles north of the camping area and left a damage path about 50 yards wide and 200 yards long. Two homes were damaged, a car was demolished, and trees and powerlines were downed.						
Arkadelphia, Cullman County	17	1745CST			0	0	2	0	Thunderstorm/Wind
			Thunderstorm winds damaged a carport and some trees.						
Springville area, St. Clair County	18	1600CST			1	0	0	0	Lightning
			A 77 year old man was killed by lightning while pushing a wheelbarrow near a pine tree in his garden. The tree had a metal gage attached to its branches and reports indicated that the lightning struck the tree before striking the victim. Lightning, M770.						
West Jefferson, Jefferson County	19	1630CST			1	0	0	0	Lightning
			An inmate at West Jefferson State Correctional Facility was killed when struck by lightning while standing in the prison's exercise yard. The man was reported to have been knocked to the ground by the lightning bolt along with several other people, but none of the others were reported to have been injured. Lightning, M300.						
Ozark, Dale County	20	1500CST			0	0	5	0	Thunderstorm/Wind
			Thunderstorm winds caused extensive damage to three airplanes and a classroom roof at an aviation and technical college. Several heating and cooling units were also damaged.						
Baldwin County	20	1710CST			0	0	3	0	Thunderstorm/Wind
			Thunderstorm winds damaged the roof and porch of a home.						
Montgomery, Montgomery County	21	1200CST			0	1	4	0	Thunderstorm/Wind
			Thunderstorm winds destroyed two buildings at a lumber yard. One man was injured by a lightning strike, apparently while running across the yard. Hail to marble size was also reported.						
Tuscaloosa area, Tuscaloosa County	21	1330CST			0	0	?	?	Hail (0.75)
			Alabama State Troopers reported dime size hail at Alberta City on the east edge of Tuscaloosa. Intense lightning strikes also knocked out power.						
ALABAMA									
Birmingham area, Jefferson County	21	1436CST			0	0	?	?	Hail (1.75)
	21	1440CST			0	0	4	0	Thunderstorm/Wind
	21	1450CST			0	0	4	0	Thunderstorm/Wind
	21	1513CST			0	0	4	0	Hail (0.75)
	21	1520CST			0	0	4	0	Thunderstorm/Wind
	21	1530CST			0	0	3	0	Thunderstorm/Wind
AL2006, East Jefferson County	21	1530CST			0	1	?	0	Lightning
	21	1530CST			0	0	?	0	Flash Flood
			The temperature registered 98 degrees in the drought stricken Birmingham area when a sharp flash of lightning was observed over the south part of the metro area. This was the beginning of a large severe thunderstorm that would last for almost two hours. The storm remained almost stationary over the Homewood, Mountain Brook, Hoover and Vestavia areas, dumping torrents of rain and some large hail, while producing damaging winds and almost continuous lightning, snarling rush hour traffic, and dropping the temperature to 68 degrees. Power company officials reported 20 cases where trees fell onto powerlines, and nine substation breakers were knocked out of service. Other wind damage included a 90 foot communications tower on Shades Mountain that toppled, minor damage to cladding on a building, and heavy wrought-iron furniture at a motel blown into the swimming pool. More than 3 inches of rain fell in less than an hour in some spots, and flooded streets. The flood waters also entered the ground floor of some apartments in the Homewood area. While very little rain fell in downtown Birmingham, the only reported storm injury occurred in North Birmingham where a 24 year old man was struck by lightning while walking along the street. The injured man was treated and released at a Birmingham hospital.						
Attalla, Etowah County	22	1309CST			0	0	2	0	Thunderstorm/Wind
			Thunderstorm winds downed a few trees.						
Dothan Airport, Dale County	23	1314CST			0	0	?	?	Thunderstorm/Wind
			Thunderstorm winds gusted to 69 mph at the Dothan Municipal Airport.						
Pinkard area, Dale County	23	1345CST			0	0	2	0	Thunderstorm/Wind
			Thunderstorm winds downed some trees. Numerous power outages also were reported.						
Wicksburg area, Houston County	23	1400CST			0	0	2	0	Thunderstorm/Wind
			Thunderstorm winds downed some trees. Powerlines were also reported down.						
Pike County	23	1420CST			0	0	2	0	Thunderstorm/Wind
	23	1440CST			0	0	2	0	Thunderstorm/Wind
			Trees were reported down on powerlines on U.S. 29 Wind between Troy and Banks, and trees were reported down in the Brundidge area.						
Brewton Area, Escambia County	23	1740CST			0	0	4	0	Lightning
			A home was heavily damaged by a fire that was reported to have resulted from a lightning strike. Some powerlines were also reported downed in the area by lightning strikes.						
Montgomery, Montgomery County	23	1805CST			0	0	?	?	Thunderstorm/Wind
			Thunderstorm winds downed large tree limbs and some powerlines. Some house fires were reported to have resulted from lightning strikes.						
Bay Minette, Baldwin County	24	1445CST			0	0	4	0	Thunderstorm/Wind
			Thunderstorm winds downed trees and powerlines and ripped the awnings off a building. Heavy rains flooded streets.						
Montgomery, Montgomery County	25	2015CST			0	0	?	?	Thunderstorm/Wind
			Thunderstorm winds downed powerlines.						
Anniston area, Calhoun County	25	2250CST			0	0	?	?	Hail (0.75)
			Alabama State Trooper reported hail 3/4 inch in diameter on Alabama 9 just east of Anniston.						
Phenix City, Russell County	27	1720CST			0	0	?	?	Thunderstorm/Wind
			Thunderstorm winds downed several trees, with some trees blown onto powerlines. Other power outages were due to lightning strikes. A sink hole also developed on a road during the storm, and an automobile was reported to be sinking as the hole continued to deepen.						
Birmingham area, Jefferson County	28	1315CST			0	0	4	0	Thunderstorm/Wind
			Thunderstorm winds damaged the roof of a service Wind station in West End. At nearby Legion Field, there was minor wind damage to the scoreboard, and a small trailer was blown into a car.						

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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	
ALABAMA									
Grove Hill, Clarke County	28	1638CST			0	0	5	0	Thunderstorm/ Thunderstorm winds toppled a 90 foot communications tower, downed trees and caused power outages. At least two houses and two vehicles were struck by falling trees. One of the downed trees was an ancient oak that was thought to be the last of the grove from which the town got its name.
Jackson area, Clarke County	28	1655CST			0	0	4	0	Thunderstorm/ Thunderstorm winds downed trees and falling trees Wind downed some powerlines.
Uriah, Monroe County	28	1700CST			0	0	4	0	Thunderstorm/ Downburst winds from a severe thunderstorm downed Wind numerous trees and demolished a barn. Falling trees damaged a mobile home and a truck. A second mobile home was damaged when rammed by a trailer that was blown out of an equipment shed.
Hazel Greene, Madison County	28	1810CST			0	0	?	?	Hail (0.75) Hail to 3/4 inch in diameter was reported.
Huntsville, Madison County	28	1930CST			0	0	4	0	Lightning 28 1940CST 0 0 3 0 Thunderstorm/ Several homes were damaged by lightning strikes. Wind Damage from the lightning strikes included some windows blown out, electrical equipment damaged and some fire damage. A direct hit split the steeple of a large church all the way down the middle of the structure. Winds downed some trees and lightning strikes also caused tree damage and power outages.
Union Grove/Scant City area, Marshall County	28	2030CST			0	0	4	0	Thunderstorm/ Thunderstorm winds downed numerous trees and blew Wind roofing off several buildings. Powerlines were down in part of the area due to lightning and falling trees. The doors were ripped off their hinges at the county shop near Scant City and a mobile home was reported to have been blown over. Local officials described the gust as out of the north in a path about 4 miles wide.
NW Blount County	28	2100CST			0	0	?	?	Thunderstorm/ Uprooted trees were reported. Wind
Odenville area, St. Clair County	28	2153CST			0	0	?	?	Thunderstorm/ A tree was blown across Highway 174 east of Odenville. Wind
Lee County	30	1315CST			0	0	?	?	Thunderstorm/ Numerous trees were reported as blown down in west Lee County. Wind
Macon County	30	1335CST			0	0	?	?	Thunderstorm/ Powerlines were reported down near U.S. 80 and County Road 89 in east Macon County. Wind
Barbour County	30	1520CST			0	0	2	0	Thunderstorm/ Trees were reported blown down near Louisville. Wind
Clarke County	30	1525CST			0	0	2	0	Thunderstorm/ Wind
	30	1545CST			0	0	2	0	Thunderstorm/ Trees were blown down west and northwest of Grove Hill and south of Jackson. Wind
Washington County	30	1545-1630CST			0	0	?	?	Thunderstorm/ Trees and powerlines were reported downed in spots throughout the county as severe thunderstorms moved southeast. Wind
Mobile County	30	1625CST			0	0	?	?	Thunderstorm/ Wind
	30	1630CST			0	0	?	?	Thunderstorm/ Wind
	30	1725CST			0	0	?	?	Thunderstorm/ Trees were downed in Citronelle at 1625CST, a stop sign was blown through the windshield of a car in Prichard at 1630CST, and trees were downed in Mobile at 1725CST. Winds were clocked at 54 mph at the NWS office at Bates Field at 1717CST. Wind
Clinton area, Greene County	30	1708CST			0	0	?	?	Hail (1.00) Hail to one inch in diameter was reported.
Fairhope, Baldwin County	30	1745CST			0	0	4	0	Thunderstorm/ Thunderstorm winds unroofed a house. Wind
Lamar County	30	1745CST			0	0	3	0	Thunderstorm/ Wind
	30	1815CST			0	0	3	0	Thunderstorm/ Wind
	30	1825CST			0	0	3	0	Thunderstorm/ Wind
									Two severe thunderstorms struck the Kennedy/Millport area of Lamar County within 30 minutes of each other. Damage included trees and powerlines downed and some minor damage to a school.
ALABAMA									
Reform area, Pickens County	30	1755CST			0	0	3	0	Thunderstorm/ Thunderstorm winds downed some trees and powerlines. Wind
Limestone County	31	1240CST			0	0	?	?	Hail (1.50)
	31	1245CST			0	0	?	?	Hail (1.75)
									Hail to 1 1/2 inches in diameter was reported at Elkton at 1240CST and in the Antioch community at 1245CST.
Union Grove, Marshall County	31	1330CST			0	0	?	?	Hail (2.75)
	31	1332CST			0	0	3	0	Thunderstorm/ Hail to baseball size was reported and the roof was blown off a building. Wind
Walnut Grove, Etowah County	31	1428CST			0	0	?	?	Hail (1.75) Hail to golf ball size was reported.
Ragland area, St. Clair County	31	1525CST			0	0	2	0	Thunderstorm/ Thunderstorm winds downed some trees and damaged powerlines. Wind
Lee County	31	1545CST			0	0	?	?	Thunderstorm/ Wind
	31	1600CST			0	0	?	?	Thunderstorm/ Wind
	31	1720CST			0	0	?	?	Thunderstorm/ Numerous trees and some powerlines were reported down on U.S. 431 in north Lee County with hail to 1/2 inch in diameter at 1545CST. Wind gusts to 63 mph were reported at the Emergency Operations Center in Opelika at 1600CST with numerous trees and some powerlines down. Trees were also reported down south of Gold Hill at 1720CST. Wind
Chambers County	31	1630CST			0	0	?	?	Thunderstorm/ Wind
	31	1630CST			0	0	?	?	Hail (0.75)
	31	1715CST			0	0	?	?	Thunderstorm/ Some trees and powerlines were downed in Lafayette around 1630CST, and hail to dime size was reported to have occurred on and off for about 45 minutes. Some trees and powerlines were reported downed in SW Chambers County around 1715CST. Wind
Alexander City, Tallapoosa County	31	1700CST			0	0	4	0	Thunderstorm/ Wind
	31	1700CST			0	0	?	?	Hail (1.00) One home was heavily damaged by a falling tree, and the City Hall roof was damaged by winds. One powerline pole that was snapped blocked the railroad tracks. Hail to one inch in diameter was reported. Two small fires were reported as the result of lightning strikes.
Tallasse area, Elmore County	31	1730CST			0	0	5	0	Thunderstorm/ Damage from downburst thunderstorm winds included Wind one brick home severely damaged by a falling tree, the roofing ripped off two buildings, and numerous trees and powerlines downed.
Titus, Elmore County	31	1750CST			0	0	2	0	Thunderstorm/ Some trees were reported blown down. Wind
Bullock County	31	1825CST			0	0	3	0	Thunderstorm/ Numerous trees and some powerlines were reported down in the Union Springs area. About 8 powerline poles were reported down on Highway 223 south of Union Springs.
Pike County	31	1830CST			0	0	4	0	Thunderstorm/ Wind
	31	1915CST			0	0	2	0	Thunderstorm/ A high voltage line tower was blown down just north of Troy around 1830CST, and trees were blown down between Clio and Brundidge at 1915CST. Wind
Coffee County	31	1900CST			0	0	2	0	Thunderstorm/ Some trees were reported down in the New Brocton area. Wind
Barbour County	31	1900CST			0	1	5	0	Thunderstorm/ Wind
	31	1925CST			0	0	3	0	Thunderstorm/ Wind
	31	1930CST			0	0	2	0	Thunderstorm/ Downburst winds left considerable damage in the Eufaula area around 1900CST. Some wooden frame buildings in an industrial park were demolished and a large tree crashed through the roof of a home. Power outages were extensive and several trees were uprooted. One woman was injured in a mobile home that was damaged by the storm. She was treated at a hospital and released. Other damage included a communications tower toppled at Clayton about 1925CST and trees reported down just west of Clio at 1930CST. Wind
Henry County	31	1915CST			0	0	2	0	Thunderstorm/ Numerous trees and some powerlines were reported down near Alabama Highway 95 northeast of Abbeville. Wind

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED ¹ DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	
ALABAMA											
Statewide	Jan-Jul.				0	0	6	8			Drought
	Jul. 19-Aug. 2				*11	0	?	?			Heat Wave
	<p>Drought conditions persisted over much of Alabama into July, and the heat made conditions even worse. The January through July precipitation total for Birmingham of 16.48 inches is the least for the period since records began in 1896, and is about 50% of normal. Parts of central and east Alabama were even harder hit, where accumulated precipitation for January through July was 20 inches or more below normal. The drought was especially severe during the spring planting and growing season. April rains were almost non-existent. Rainfall amounts were generally less than one inch, and April is normally one of the wettest months of the year. A major weather system moved in from the west during mid May and brought a substantial rain to many areas in west and north Alabama. But, the soaking rains with this system failed to reach most of the eastern counties. For example, while more than 11 inches of rain fell at Uniontown in Perry County during May, Auburn had only 1.07 inches. Following the mid May rains, rainfall from mainly scattered afternoon thunderstorms was near normal in amount for some areas during June and July, but the loss of the winter and spring rains continued to be felt. Most rivers, streams and reservoirs remained well below normal levels, water supplies were very low in some eastern counties, and several cities had placed restrictions on water usage. Water levels for river navigation were being maintained in west Alabama, but locking operations were being curtailed in other areas. Hydro-electric power generation was estimated to be some 70 percent below normal. The prolonged dry weather caused pastures to fail in the summer heat. Saw-timber growth was estimated to have been reduced some 50 percent, and 75 percent of the pine seedlings set last winter were lost.</p> <p>Hot weather prevailed throughout July. The most persistently hot area was the SE corner, where Dothan and Headland recorded high temperatures above 91 degrees every day and Headland had 101 on July 9. The combination of heat and humidity grew worse statewide during mid July, and the Alabama Department of Public Health issued a heat alert on July 19. As conditions continued to deteriorate, the alert was upgraded to critical status on July 29, when afternoon highs varied from 98 in Dothan and Headland to 101 in Muscle Shoals and 103 in Hamilton. Highs on the 30th reached 100 degrees at Cullman, Anniston, Montgomery and Mobile, 101 at Birmingham, Headland and Dothan, 103 at Tuscaloosa and Muscle Shoals, and 105 in Hamilton. The heat appeared to peak on the 31st, although Montgomery, Dothan and Mobile recorded highs of 100 on August 1 and highs in the 90s continued into August. (All temperatures are *Fahrenheit.)</p> <p>*Although the peak of the heat was from mid July into early August, health officials reported two heat-related deaths in June. Three heat-related deaths were recorded in July and six in August. By age brackets, two of the victims were under 15 years old, three were from 15 to 44, two from 45 to 64, and four of the victims were 65 or more years old.</p>										
ARIZONA											
Cochise County	14	1630 MST			0	0	5	0			Flash Flooding, Hail (.75)
	<p>The Old Bisbee section of Bisbee was hit by very heavy local thunderstorms, causing a massive rock and debris flow that forced 7 cars into a logjam at the bottom of Brewery Gulch. About 2 inches of rain fell in just 30 minutes, 3 inches in about 50 minutes. Damage was mainly to retaining walls, streets and waterways.</p>										
Pima County	15	1315 MST			0	0	?	0			Thunderstorm wind
	<p>University of Arizona in Tucson had small hail and wind gusts to near 65 mph. About 2.5 inches of rain fell in 40 minutes in downtown Tucson, flooding four underpasses.</p>										
Cochise County	15	1600 MST			0	0	2	0			Flash Flooding
	<p>Another round of thunderstorms hit Bisbee, giving a 24-hour rain total of 5.19 inches.</p>										
Maricopa County	16	1445 MST			0	0	2	0			Hail (.75)
	<p>Thunderstorms were accompanied by dime-size hail and winds that snapped branches and felled small trees in Tempe. Microburst winds estimated at 50 mph occurred.</p>										
Cocconino County	20	1600 MST			0	0	3	0			Lightning, Hail (1.50)
	<p>Thunderstorms and hail pelted east Flagstaff. Cars and trees were damaged by large hail. At least one house was set on fire by lightning.</p>										
Pima County	20	2000 MST			0	0	3	0			Thunderstorm Wind
	<p>Sheriff's office in Ajo reported street flooding and broken tree limbs.</p>										
Yuma County	20	2055 MST			0	0	2	0			Thunderstorm wind
	<p>Power lines were downed in northwest Yuma due to very strong thunderstorm winds.</p>										
LaPaz County	21	1900 MST			0	0	5	0			Flash Flooding
	<p>Very heavy rains and water rushing off the Dome Rock Mountains breached a retaining wall near a mobile home park in Ehrenberg. 7 mobile homes, some with residents inside, were swept into the Colorado River. Portions of Interstate 10 were washed away as up to 3 feet of water covered the highway. 55 vehicles were damaged.</p>										
Hohave County	22	1800 MST			0	0	5	0			Thunderstorm wind
	<p>About 35 mobile homes were damaged, some boats were overturned, a power pole was upended, and power lines were draped across London Bridge Road in Lake Havasu City. The most severe damage was near the Desert Hills Fire Station. Winds cut a path of destruction about 1/4 mile wide.</p>										
3 ARKANSAS											
Boone County	01	1445CST			0	0	4	-			Thunderstorm Wind
	<p>Gusts from a thunderstorm blew down some block walls in the auditorium for the new high school at Harrison. The building was still under construction.</p>										
Pulaski County	07	1530CST			0	0	4	-			Lightning
	<p>A lightning strike started a fire at a Little Rock residence. Damages were estimated at \$35,000.00.</p>										
White County	20	1457CST			0	0	-	-			Hail (1.75")
	<p>The Searcy Police Department reported golfball-size hail in Bradford.</p>										
White County	20	1513CST			0	0	-	-			Thunderstorm Wind
	<p>Trees and power lines were reported blown down in Bradford by the State Police. Tree and power line damage was also reported in Bald Knob. Five power poles were knocked down in Bald Knob.</p>										
Gila County	01	1600 MST			0	0	0	0			Funnel Cloud
	<p>Thunderstorms in Globe produced a funnel cloud and 50 mph winds.</p>										
Maricopa County	01	2030 MST			0	0	0	0			Funnel Cloud
	<p>Wittmann reported a funnel cloud.</p>										
Maricopa County	02	1907 MST			0	0	4	0			Thunderstorm wind (G-53)
	<p>Two billboards in Phoenix were blown over, and damaged several cars. The National Weather Service Forecast Office, about 1 mile south, had a peak gust of 61 mph. Apache Junction had gusts to 56 mph at 1805 MST.</p>										
Pinal County	03	1630 MST			0	0	2	0			Thunderstorm wind
	<p>Queen Creek spotter reported minor wind damage, with estimated winds of 60 mph.</p>										
Navaho County	14	1500 MST			0	0	0	0			Thunderstorm wind (G-55)
	<p>A sudden downburst hit Winslow Airport.</p>										
Pima County	14	1630 MST			0	0	4	0			Thunderstorm wind
	<p>Clusters of thunderstorms moved into Tucson from the Rincon Mountains, felled some large trees, and caused some minor flooding of washes and streets. 0.91 inch rain fell on the northwest side, and estimated winds of about 50 mph occurred.</p>										

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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									
Pope County	20	1600CST			0	0	4	-	Lightning
									Lightning struck a large, elm tree one mile south of Appleton. The strike killed 27 heads of beef cattle that had taken refuge under the tree. The loss was estimated between \$16,000 and \$18,000.
Pope County	20	1600CST			0	0	?	-	Thunderstorm Wind
									Two houses, located just east of Atkins, had shingle damage resulting from thunderstorm outflow.
Lonoke County	20	1707CST			0	0	?	-	Thunderstorm Wind
									A mobile home was blown 3 feet off its supports in Ward. A fireworks stand was tossed about by the wind. Several trees and tree limbs were blown down, with a large tree blocking an intersection for about 3 hours.
White County	20	1740CST			0	0	4	-	Thunderstorm Wind
									Trees were uprooted, outbuildings were blown down, and plate-glass windows were broken by strong gusts in El Paso. Roofs and porches were taken off some houses. Damages were estimated between \$25,000 and \$35,000.
Saline County	20	1845CST			0	0	?	-	Lightning
	20	1912CST			0	0	-	-	Thunderstorm Wind
									The Benton Police Department reported one tree and power lines down in that city. Lightning started a fire at a building under construction in the Human Development Center at Alexander. A church had its steeple knocked down by the wind in Benton.
Hot Spring County	20	1915CST			0	0	-	-	Thunderstorm Wind
									The Sheriff's Office reported that trees were blown down in Bismarck.
Montgomery County	21	1600CST			0	0	3	-	Thunderstorm Wind
									A church-owned van had its roof crushed by a tree that was knocked down by strong winds at Mount Ida.
Miller County	21	1845CST			0	0	-	-	Thunderstorm Wind
					0	0	-	-	Hail (1.00")
									Trees were blown down west of Ferguson, and one-inch-diameter hail fell at Fouke.
Nevada County	21	1900CST			0	0	4	-	Thunderstorm Wind
									A restaurant in Prescott lost half its roof to the strong winds accompanying a thunderstorm. Winds knocked down trees and tree limbs in Prescott and other parts of the county. One airplane was torn loose from its mooring and demolished at the Prescott Municipal Airport.
Franklin County	21	1945CST			0	0	?	-	Lightning
									A storage shed was set on fire by a lightning strike in the Pond Creek area, west of Altus.
Union County	21	2000CST			0	0	?	0	Thunderstorm Wind
									The town of Strong was left without electricity because the wind blew down a large tree across a power line.
Columbia County	21	2015CST			0	0	-	-	Thunderstorm Wind
	21	2015CST			0	0	-	-	Funnel Cloud
									Strong winds blew trees down across Highway 19, 3 miles south of Magnolia, and also across Highway 344, 3 miles north of the intersection with Highway 132. At the same time, a sheriff's deputy spotted a funnel cloud between Taylor and Emerson.
Marion County	25	1755CST			0	0	?	-	Hail (1.00")
									A radio station manager reported moderate damage to cars and glass from hail 1-1/2 inches in diameter at the southern edge of Bull Shoals Lake.
Baxter County	25	1806CST			0	0	-	-	Hail (1.75")
									The Sheriff's Office reported golfball size hail covering the ground to a depth of 2 inches at Lakeview.
— ARKANSAS									
Baxter County	25	1830CST			0	0	-	-	Thunderstorm Wind
									A strong thunderstorm blew 2 trees down across Arkansas Highway 5 on the north side of Mountain Home.
Baxter County	25	2012CST			0	8	4	-	Thunderstorm Wind
									Strong winds blew down trees and overturned camper trailers at Robinson Point, a Corps of Engineers' Park (10 miles east of Mountain Home) on Lake Norfork. Some of the injuries resulted from an overturned trailer; others resulted from the crashing trees; one injury resulted from an overturned boat as a person attempted to get back to shore. Six of the injured were treated and released at a Mountain Home hospital, while two were hospitalized.
Baxter County	25	2043CST			0	0	-	-	Funnel Clouds
									The Baxter County Sheriff's Office reported 5 funnel clouds observed by one of its deputies in the vicinity of Midway.
Faulkner County	26	UNK			2	0	-	-	High Heat
									The Arkansas Health Department reported two fatalities in the county due to high temperatures. One was a 91-year old male, and the other was an 84-year old female.
Searcy County	26	1653CST			0	0	4	-	Thunderstorm Wind
									Hail and strong winds were reported in Saint Joe. Trees were uprooted, falling down across a car and across the roof of a mobile home.
Independence County	26	1700CST			0	0	-	-	Thunderstorm Wind
									The Sheriff's Office reported minor wind damage to property along Main Street in Batesville. Trees and power lines were blown down in Batesville and at unspecified areas of the county.
Cleburne County	26	2105CST			0	0	-	-	Thunderstorm Wind
									The Sheriff's Office reported trees were blown down in Heber Springs.
Sharp County	27	1700CST			0	0	-	-	Hail (1.50")
									The Sheriff's Office reported walnut-size hail in Hardy, along with heavy rain.
Crawford County	28	UNK			1	0	-	-	High Heat
									The Arkansas Health Department reported one fatality in the county due to high temperature--an 83-year-old male.
Chicot County	29	UNK			1	0	-	-	High Heat
Logan County	29	UNK			1	0	-	-	High Heat
Sebastian County	29	UNK			1	0	-	-	High Heat
Saint Francis County	29	UNK			1	0	-	-	High Heat
									The Arkansas Health Department reported 4 deaths due to high temperature, one in each county. Chicot--70-year-old female. Logan--84-year-old female. Sebastian--54-year-old male. Saint Francis County--80-year old male.
Clark County	30	UNK			1	0	-	-	High Heat
									The Arkansas Health Department reported a death in the county due to high temperatures--a 72-year old female.
Benton County	31	UNK			1	0	-	-	High Heat
Conway County	31	UNK			1	0	-	-	High Heat
Crittenden County	31	UNK			1	0	-	-	High Heat
Pulaski County	31	UNK			2	0	-	-	High Heat
White County	31	UNK			1	0	-	-	High Heat
									The Arkansas Health Department reported six fatalities due to high temperatures. Benton--an 82-year-old male; Conway--a 68-year-old female; Crittenden--a 53-year-old female; Pulaski--an 87-year-old female and an 85-year old female; White--an 83-year-old male.
Craighead County	31	1520CST			0	0	-	-	Thunderstorm Wind
									Small hail and heavy rain accompanied strong winds that knocked down tree limbs at Otwell.
Jackson County	31	1530CST			0	0	?	-	Thunderstorm Wind
									Unspecified, wind damage was done to aircraft at the Newport Airport, according to the State Police.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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					KILLED	INURED	PROPERTY	CROPS	
— ARKANSAS									
Poinsett County	31	1551CST			0	0	-	-	Thunderstorm Wind
									Trees were blown down in Harrisburg by winds estimated at 60 MPH.
Crittenden County	31	1730CST			0	0	?	-	Thunderstorm Wind
	31	1730CST			0	0	-	-	Hail (0.75")
									Penny-size hail and 50-60 MPH winds occurred at Turrell. Large signs were blown down also.
White County	31	1730CST			0	0	?	-	Thunderstorm Wind
									Tree limbs and one power pole were blown down in Bald Knob. Damage was described as minimal. However, plate-glass windows were blown out and trees and power lines were knocked down in Judsonia, with the damage described as extensive in Judsonia.
Cross County	31	1745CST			0	0	4	-	Thunderstorm Wind
									The Sheriff's Office reported that a liquor store in Wynne was unroofed, and that two other buildings had roof damage. Trees, power lines, and signs were blown down.
Woodruff County	31	1800CST			0	0	?	-	Thunderstorm Wind
									Numerous trees, utility poles, and power lines were blown down by strong wind throughout the county, according to the Sheriff's Office.
Polk County	31	1830CST			0	0	?	-	Thunderstorm Wind
Polk County	31	1830CST			0	0	-	-	Hail (1.75")
									Golfball-size hail fell at Big Fork. Also several trees were knocked down at a Big Fork residence. The occupants were trapped inside the house, and their pickup truck was crushed by another tree. Two barns were unroofed, and a total of 30 trees were uprooted.
Monroe County	31	1848CST			0	0	5	-	Thunderstorm Wind
									The Office of Emergency Services reported \$200,000 worth of damage to large, commercial signs along Interstate 40 in the Brinkley area. Damages were the result of wind gusts from a thunderstorm.
Drew County	31	2230CST			0	0	?	-	Thunderstorm Wind
									Straight-line winds damaged 3 airplanes and some hangars at the Monticello Airport.
4 CALIFORNIA, Northern									
Mono County	23	1345PST			0	0			Flash Flood
									Heavy thunderstorms in southern Mono County produced flash flooding along Hwy. 120 southwest of Benton Station with 1 to 2 feet of water across the roadway.
4 CALIFORNIA, Southern									
Stoddard Valley south of Barstow, San Bernardino County	21	1145PST	0.1	?	0	0	0	0	Tornado (F0)
									A small tornado set down on a hillside 10 miles south of Barstow. It lasted 2 to 3 minutes, traveled a distance of 100 to 200 yards, and was reported by a member of the Barstow Posse.
San Diego County	21	1335PST			0	0	?	0	Thunderstorm
									A thunderstorm dropped hail and heavy rain on Palomar Mountain.
Riverside County	21	1700PST			0	0	0	0	Heavy Rain
									Minor flooding occurred near I-10 in the Bristol Mountain region. No major damage was reported.
Carlsbad, San Diego County	22	Afternoon			0	6	0	0	Lightning
									Six field workers were injured by lightning that struck near where they stood.
Indio, Riverside County	22	1605PST			0	0	0	0	Heavy Rain
									Minor street flooding was reported by the Indio Sheriff Station. Some homes had water on the floors which quickly receded.
— CALIFORNIA, Northern									
Lake Hemet area, Riverside County	22	1651PST			0	0	?	0	Heavy Rain
									Heavy rains in the Lake Hemet area washed out State Highway 371 to Anza.
Los Angeles, Whittier and East Pasadena, Los Angeles County; and Yorba Linda to Huntington Beach, Orange County	22	Evening			0	0	0	0	Lightning
									20,000 customers were without electricity at various times throughout the night due to several lightning strikes in portions of Los Angeles and Orange Counties. The Angels-Brewers baseball game was delayed for about 15 minutes.
Orange County	26	Afternoon			1	0	0	0	Heavy Surf
									A southern hemispheric swell generated heavy surf, taking one life at Newport Beach. The surf averaged 6 to 8 feet. P200
Ventura County	27	1800PST			3	0	0	0	Heavy Surf
									The swell from the southern hemisphere continued to generate large waves along Point Mugu. One man was swept from the rocks; two friends dove in to save him, but were swept away as well. M520, M450, M390
5 COLORADO									
Larimer Cy.	3	1640MST			0	0	0	0	Tstm. winds
									A wind gust of 60 mph was clocked 5 1/2 miles WNW of Wellington.
Larimer Cy.	4	1603MST			0	0	3	0	Tstm. winds
									A gust of 38 mph occurred 2 miles north of Fort Collins. A television antenna was toppled.
Jefferson Cy.	6	1300-1500MST			0	0	0	0	Hail, Rain
									1 inch hail fell 5 miles southwest of Conifer at 1310MST. The associated thunderstorm produced 1.5 inches of rain in an hour, with a storm total of 2.15 inches. Nearby Buffalo Creek was drenched with .8 inch of rain in just 10 minutes.
Yuma Cy.	7	1700-1830MST			0	0	5	3	Svr. tstms.
									A large thunderstorm moved across Yuma County, leaving a swath of damage through the southern part of the county. 70 power poles were downed near Idalia, and houses in the town suffered broken windows and roof damage. East of Joes, a porch was ripped off of one house and a trailer was moved off its foundation. 1 inch hail fell in Idalia at 1755MST, and 60 mph winds occurred. Corn was flattened near Joes. Rainfall amounts were generally around 2 inches in about an hour's time.
Logan and Phillips Counties	9	1600MST			0	0	0	0	Hail
									Golfball size hail fell 10 miles southwest of Holyoke in Phillips County. At about the same time, baseball size hail battered the Logan County town of Fleming, along with 1.75 inches of rain.
Yuma Cy.	9	1650-1730MST			0	0	5	5	Svr. tstms.
									A severe thunderstorm complex dropped heavy rain and large hail in many parts of Yuma County, causing widespread damage to property and crops. Hail reached golfball size in Wray at 1650MST, and a few stones as large as baseballs pummeled the area shortly after 1700MST. 3 inches of rain drenched an area just northeast of the town in just 25 minutes. Golfball size hail also fell during this time period in Yuma.
									In Wray, trees were uprooted, power lines downed; windows were broken, and metal bleachers were tossed around and bent in half. The rain caused flooding; many buildings suffered severe water damage. The hail shattered many windshields of cars and trucks. The wind ripped a portion of the roof off of the local Elks club. Severe crop damage occurred north of Wray. Corn, beans, alfalfa, and watermelon were all hit; several thousand acres of corn were destroyed 10 to 18 miles north of Wray. The large hail killed several hogs, and the torrential rain washed out fences in some spots.
Yuma Cy.	9	1700MST	1	40	0	0	4	0	Tornado (F1)
									The severe thunderstorm spawned a tornado a half mile north of Wray that hit the airport. At least two hangars were damaged, and a plane was flipped.
Logan Cy.	9	2210MST			0	0	0	3	Hail
									Golfball size hail fell 15 miles WNW of Sterling, damaging crops in the area.

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JULY 1986

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					KILLED	INJURED	PROPERTY	CROPS	KILLED	INJURED	PROPERTY	CROPS		
COLORADO														
Northeast Colorado	13	1630-1830MST			0	0	3	0	Tstm. winds					
Thunderstorm microbursts hit Larimer, Weld, and Morgan Counties, blowing over a few sheds and causing scattered power outages. Gusts reached 70 mph in Fort Collins at 1655; 58 mph in Briggsdale at 1735; and 70 mph in Fort Morgan at 1820, all times being MST.														
Arapahoe Cy.	13	aftn.			0	0	3	0	Lightning					
A lightning bolt struck a church steeple in Littleton, causing it to topple to the ground.														
Denver area, Jefferson and Denver Counties	14	1400-1500MST			0	0	3	0	Tstm. winds					
Thunderstorm microbursts blew down a power line in west-central Jefferson County and later hit Denver, snapping tree limbs and damaging a fence near Washington Park. Gusts in the area were estimated at 80 to 85 mph.														
Mesa Cy.	15	aftn.			0	0	4	0	Tstm. winds					
Thunderstorm microbursts uprooted trees near Grand Junction. Several garages and a camper in a residential area were damaged, and some windows were broken.														
Morgan Cy.	16	1815MST			0	0	0	0	Tstm. winds					
A gust of 62 mph was clocked at Fort Morgan.														
Arapahoe Cy.	17	1800-2000MST			0	0	0	0	Heavy rain					
1 1/2 inches of rain fell in an hour and 15 minutes in the southeastern part of Aurora.														
Southwest Colorado	19	aftn.			0	0	3	0	Heavy rain					
Heavy rain caused rockslides on several highways in southwestern Colorado. Several spots had about an inch of rain in an hour or so, including Montrose, Gunnison, and Del Norte.														
Denver and Ft. Collins areas COZ011	20	1430-1830MST			0	0	3	0	Heavy rain					
Thunderstorms dumped heavy rain on most of the Denver metropolitan area, causing extensive street flooding. There were power outages, and some basements were flooded. The greatest recorded rainfall was 4.39 inches in Lakewood. 2.29 inches fell in just 20 minutes in extreme northwest Denver. Arvada was drenched with 2.60 inches, and over an inch fell in southeast Denver and adjacent sections of Aurora. In the Fort Collins area, 2.80 inches fell 6 miles south of the city; 2.30 fell in just 40 minutes. There was also street flooding in that area.														
Larimer Cy.	24	1333MST			0	0	3	0	Hail					
3/4 inch hail fell 2 miles north of Fort Collins. A few vehicles were dented, and shingles on some houses were damaged. The hail was accompanied by heavy rain that caused severe street flooding.														
Lincoln Cy.	31	0700MST			0	0	0	0	Hail					
Baseball size hail fell 5 miles south of Hugo.														
Yuma Cy.	31	0730MST			0	0	0	0	Hail					
Baseball size hail fell at Yuma.														
Teller Cy.	31	1430MST			0	0	0	0	Hail					
1 1/2 inch hail fell at Divide; nearby Woodland Park had over an inch of rain.														
Douglas Cy.	31	1502MST			0	0	0	0	Hail					
Golfball size hail fell at Perry Park.														
El Paso Cy.	31	1500-1800MST			0	0	0	0	Hail					
3/4 inch hail fell in Colorado Springs at 1520MST; another thunderstorm produced stones 3 inches in diameter 10 miles southeast of the city at 1731MST.														
Prowers Cy.	31	1830MST			0	0	0	0	Hail					
1 1/2 inch hail fell at Lamar.														
Weld Cy.	31	1940-2010MST			0	0	0	0	Hail					
Golfball size hail was reported at 2010MST 21 miles north-east of New Raymer, along with very heavy rain. Hail fell at that location for 30 minutes.														
Logan Cy.	31	2050MST			0	0	4	4	Hail					
1 inch hail fell 15 miles WNW of Sterling. The hail damaged homes, vehicles, and crops in western Logan County, and killed a few turkeys and chickens.														
6 CONNECTICUT														
Fairfield County	29	Afternoon- Early Evening			0	0	3	0	Lightning, Heavy Rain					
About 4,000 electric customers lost power as a series of scattered, heavy thunderstorms moved across the area. Street flooding was the result of the heavy rain, and amounts of up to 2 inches were reported.														
New London County	29	Afternoon			0	0	3	0	Lightning					
In New London, lightning struck a gas main, causing an explosion that left a hole in the street. Twenty families were evacuated from their homes.														
New Haven County	30	1900- 2030EST			0	0	3	0	Lightning, Heavy Rain					
A thunderstorm which prompted a flood warning caused temporary street flooding and power outages in Ansonia and Derby. A bolt of lightning punched a hole in a house in Derby. No injuries were reported. About 2,000 electric customers lost power in the area. Rainfall amounts were reported to be around 2 inches.														
7 DELAWARE														
Kent County	13	2215EST			0	0	4	0	Thunderstorm wind					
A heavy thunderstorm felled trees and downed TV towers in Williamsville. Trees fell on a house and damaged a truck and a car.														
Sussex County	18	1520EST			1	0	0	0	Lightning					
A 49 year old Seaford man was killed when he was struck by lightning during an afternoon thunderstorm. He was standing alongside a truck at the time of the accident. M490														
8 FLORIDA														
Brevard Co.	01	1600EST			0	1	0	0	Lightning					
	01	1620EST			0	0	4	-	Thunderstorm wind					
Lightning struck and injured a 33 year old man who was riding a motorcycle at the time. High wind blew the roof off a stable and destroyed several sheds.														
Osceola Co.	02	1355EST			0	0	4	-	Thunderstorm wind					
Several mobile homes had the roof blown off by high wind. Fifteen mobile homes were damaged by high wind.														
Citrus Co.	03	0800EST			0	3	-	-	Lightning					
Three men working outside were injured when lightning struck near where the men were standing.														
Polk Co.	03	1745EST			0	0	3	-	Thunderstorm wind					
High wind blew off the roofs of several mobile homes, damaged screened porches, and destroyed several small trees.														
Polk Co.	05	1415EST	1.0	30'	0	0	3	0	Tornado (F0)					
A person saw a tornado touch down and uproot a tree which was blown through the roof of a mobile home.														
Collier Co.	06	1325EST			0	0	0	0	Hail (1.0)					
Hail one inch in diameter was reported by the sheriff's office.														
Pinellas Co.	12	0935EST			0	1	0	0	Lightning					
Pinellas Co.	12	0945EST			1	0	0	0	Lightning					
Hillsborough Co.	12	1130EST			0	3	-	-	Lightning					
A 16 year old girl was struck and critically injured as she walked in her driveway. A 68 year old male was struck and killed by lightning as he walked along the beach. Lightning struck a tree and injured three teenagers, one critically, who had taken refuge from the rain under the tree. M680														

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					KILLED	INJURED	PROPERTY	CROPS	
— GEORGIA —									
Fulton County	20	1300EST			1	1	0	0	Lightning
					Two men standing on tree roots along the Chattahoochee River in north Fulton County were struck by lightning which had first struck the tree they were under. One 24 year old man was killed, the other injured. M240				
Mitchell County	20	1800-1815EST			0	0	?	?	Hail (1.25)
					Golf ball size hail fell in the northeast part of the county. Moth ball size hail fell in Camilla and near Palham.				
Tift County	20	1945EST			0	0	4	0	Thunderstorm winds
					Thunderstorm winds uprooted trees and damaged a mobile home and two vehicles 6 miles northeast of Tifton.				
Telfair County	21	1400-1420EST			0	0	5	0	Thunderstorm winds
Wheeler County	21	1425EST			0	0	?	?	Thunderstorm winds
					Thunderstorm winds downed several pecan trees and damaged several mobile homes and houses in Workmore. Two houses were damaged in Helena. A few minutes later, several pecan and oak trees were downed southeast of McRae. Several oak trees were uprooted east of Alamo.				
Habersham County	21	1450EST			0	0	?	0	Thunderstorm winds
					Two trees were topped out by intense thunderstorm winds 7 miles northwest of Clarksville.				
Lee County	21	1500EST			0	0	4	0	Thunderstorm winds
					Thunderstorm winds heavily damaged a grocery store and the city hall in Smithville. A bank was also damaged.				
Marion County	21	1530EST			0	0	4	0	Thunderstorm winds
					Thunderstorm winds downed power lines and damaged a tool shed, a chicken house and a dairy barn at a farm 14 miles south of Buena.				
Washington County	21	1545EST			0	0	5	0	Thunderstorm winds
					Two hangars were heavily damaged at Koolin Field in Sandersville by thunderstorm winds. Debris from the roofs of the hangars was dumped in the yard of the county jail, knocking down a fence. Several trees were uprooted in the area. Minor damage to homes and barns in the area was reported.				
Gwinnett County	21	1645EST			0	0	4	0	Thunderstorm winds
					Trees were broken off and uprooted by thunderstorm winds in Snellville.				
Effingham County	21	1700EST			0	0	3	0	Thunderstorm winds
					Thunderstorm winds knocked down several walls of a building under construction near Rincon.				
Chatham County	21	1702-1710EST			0	0	4	0	Thunderstorm winds
					Winds gusting to 63 miles per hour caused damage to 3 aircraft at the Savannah International Airport. A large tree was downed in Bloomingdale.				
Clarke County	21	1726EST			0	0	4	0	Thunderstorm winds
					Winds gusting to 76 miles per hour at Athens Municipal Airport flipped a small plane and uprooted numerous trees in the area.				
Troup County	21	1730EST			0	0	4	0	Thunderstorm winds
					A tree uprooted by thunderstorm winds fell across a mobile home. The mobile home was considered a total loss. Several other trees in the area were also downed.				
Oglethorpe and Oconee Counties	21	1740EST			0	0	?	0	Thunderstorm winds
					Thunderstorm winds downed trees into streets in Lexington. Other trees were downed in scattered locations in the south part of Oconee County.				
Lamar County	21	1818EST			0	0	4	0	Thunderstorm winds
					Thunderstorm winds downed trees and powerlines in Barnesville and scattered locations in the south part of the county. Several roofs were damaged.				
Bryan County	21	1830EST			0	0	3	0	Thunderstorm winds
					Several trees were downed near Keller which is 10 miles south of Richmond Hill. Two large oak trees damaged a hundred-year-old church.				
Coweta County	21	1840EST			0	0	3	0	Thunderstorm winds
					A garage was damaged by thunderstorm winds north of Newnan.				
— GEORGIA —									
Spalding County	21	2000EST			0	0	?	0	Thunderstorm winds
					Trees were broken off and uprooted, blocking some roads in the west part of the county.				
Habersham and Rabun Counties	22	1430EST			0	0	?	0	Thunderstorm winds
					Thunderstorm winds downed a few trees in the north part of the county near Lake Burton and in Mountain City.				
Franklin and White Counties	22	1550EST?			0	0	?	0	Thunderstorm winds
					Trees were uprooted by thunderstorm winds near Hartwell Lake in the north part of Franklin County, and also in the northern part of White County.				
Tattnal County	22	1600EST			0	0	2	0	Thunderstorm winds
					Thunderstorm winds downed a tree near Reidsville and a barn was blown down 3 miles from Reidsville just off the Reidsville-Claxton Highway.				
Bibb County	22	1715EST			0	0	?	0	Thunderstorm winds
					Power lines and tree damage was extensive in many areas of Macon from thunderstorm winds.				
Tift County	22	2000EST			0	0	4	0	Thunderstorm winds
					Thunderstorm winds blew the roofs off two apartment buildings in Tifton.				
Fulton and DeKalb Counties	23	1700-1740EST			0	0	4	0	Thunderstorm winds
					Around 40 trees were uprooted by thunderstorm winds in a 20 minute period at scattered locations in eastern Atlanta. Several houses were also damaged by the strong winds. Several of the trees fell on homes and cars.				
Schley County	23	1800-1815EST			0	0	?	0	Hail (0.75)
					Marble to nickle size hail fell in Ellaville.				
Irwin and Ben Hill Counties	23	1810EST			0	0	?	0	Thunderstorm winds
					Tree and power line damage was reported in rural parts of Irwin and Ben Hill Counties.				
Morgan County	24	1500EST			0	0	?	0	Thunderstorm winds
					Thunderstorm winds downed several trees in Hard Labor State Park.				
Rockdale County	24	1630EST			0	0	3	0	Thunderstorm winds
					Fifteen trees and a power pole and lines were downed by thunderstorm winds in Millstead.				
Bibb County	25	1500EST			1	0	0	0	Lightning
					A 62 year old south Macon man was killed by lightning while sitting under a carport. M620				
Screven County	25	1620EST	0.5	55	0	0	4	0	Tornado (F1)
					A tornado touched down 3 miles south of Sylvana near Greenhill. A mobile home was rolled over onto a car with one person trapped inside but not injured. Another mobile home was partially unroofed.				
Fulton County	25	2045EST			0	0	4	0	Thunderstorm winds
					Thunderstorm winds uprooted 3 large trees north of downtown Atlanta. Two of the trees fell on houses and a limb from another tree fell through the roof of another house.				
Lamar County	26	1415EST			0	0	3	0	Thunderstorm winds
	26	1420EST			0	2	0	0	Lightning
					Thunderstorm winds destroyed a garage in Milner. Two people were injured by lightning. One was on a metal ladder and the other was in a kitchen when struck.				
Gwinnett County	27	1245EST			0	0	?	0	Thunderstorm winds
					Trees were downed by thunderstorm winds in Lilburn.				
Barrow County	27	1305EST			0	0	?	0	Thunderstorm winds
Rabun County	27	1330EST			0	0	?	0	Thunderstorm winds
Hall County	27	1450EST			0	0	3	0	Thunderstorm winds
					Thunderstorm winds uprooted trees 10 miles west of Winder, along the Chatoga River in southeastern Rabun County, and along Highway 369 in the west part of Hall County. A small building was also damaged in Hall County.				
Chattooga County	27	1400EST			0	0	4	0	Thunderstorm winds
					Thunderstorm winds blew out windows in businesses in Summerville. Many trees and power lines were downed in the area. Several of the trees fell on cars and homes.				

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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	

GEORGIA

Paulding County	27	1530EST			0	0	?	0	Thunderstorm winds
Scattered trees were downed in the north part of the county. One road was blocked by a tree.									
Elbert County	27	1630-1700EST			0	0	?	0	Thunderstorm winds
More than a dozen trees were downed along with a split rail fence north of Elberton. Three trees were downed by thunderstorm winds off Highway 77N in the east part of the county.									
Muscogee County	27	1745-1900EST			0	0	4	0	Thunderstorm winds
Thunderstorm winds in Columbus downed many trees, blew a door off a hangar at the Columbus airport, and damaged a roof at a department store.									
Houston and Twiggs Counties	27	1915-1930EST			0	0	3	0	Thunderstorm winds
Thunderstorm winds downed trees and power lines in Warner Robins and near the Twiggs/Houston County line in Twiggs County. A car was damaged by a falling tree in Warner Robins.									
Jefferson County	29	1340EST			0	0	?	0	Thunderstorm winds
Several trees were blown down by thunderstorm winds 8 to 10 miles southwest of Louisville.									
Benn Hill County	29	1520EST			0	0	0	0	Hail (0.75)
Nickle size hail fell in southern Fitzgerald.									
Tattnall County	29	1610EST			0	6	4	0	Thunderstorm winds
Thunderstorm winds destroyed 5 mobile homes and damaged 3 others 12 miles southeast of Reidsville and 3 miles north of Highway 169. A bath house and 3 barns were also damaged. Six migrant workers living in the mobile homes were injured, none seriously.									
Bleckley County	29	1710EST			0	0	4	0	Thunderstorm winds
Two roofs were blown off barns just east of Cochran and several trees were downed in the area.									
Tift County	29	1730EST			0	2	4	0	Thunderstorm winds
Trees were blown down into power lines just south and in the northeast part of Tifton. Two people were injured by flying glass when a plate glass window was blown out. Lightning caused several fires, destroying a storage house and damaging at least 3 homes. A mobile home was overturned by the thunderstorm winds.									
Worth County	29	1820EST			0	0	?	0	Thunderstorm winds, Hail (1.0)
Thunderstorm winds downed trees in Redrock and Warwick, with power lines downed in many locations. A porch was blown off a trailer and scattered trees uprooted near the Worth/Dougherty County line. Hail from pea to quarter size fell between Albany and Sylvester.									
Chatham County	31	1430EST			0	0	4	0	Hail (1.0)
Chatham County	31	1430EST				3	0	0	Thunderstorm winds
Bryan County	31	1500EST				?	0	0	Thunderstorm winds
Liberty County	31	1500EST				?	0	0	Thunderstorm winds
Chatham County	31	1530EST			1	0	4	0	Lightning
McIntosh County	31	1610EST				?	0	0	Thunderstorm winds
Hail from 1/4 to 1 inch in diameter fell 5 to 10 miles south of Savannah. Thunderstorm winds downed trees at scattered locations in Pooler, Richmond Hill, near Lake George, Crescent and in Eulonia. An 80 year old woman died after lightning struck a mobile home in Midway. The mobile home immediately burst into flames. FBI									
Rockdale County	31	1530EST			0	0	?	0	Thunderstorm winds
Thunderstorm winds downed power lines and at least one tree in the north part of the county.									
Heard County	31	1640EST			0	0	?	?	Thunderstorm winds
Trees and power lines were downed by thunderstorm winds in Franklin.									
Troup County	31	1710EST			0	0	4	?	Thunderstorm winds
Thunderstorm winds downed trees from the La Grange area westward across the county. Several power lines were downed and several cars were damaged by the falling trees.									
Dade County	31	2300EST			0	0	?	?	Thunderstorm winds
Thunderstorm winds downed numerous trees around the north part of the county.									

10 IDAHO

IDZ002-003 Snake River Valley from Twin Falls to Rexburg	4	1230MST-1800MST			2	1	4	2	High Wind
A Pacific cold front brought strong winds which toppled many trees, caused considerable structural damage, blew a motorcycle into the median on I-15, 3 miles south of Inkom, and started fires from downed power lines and blowing sparks, including a brush fire, and a log fire in a lumber yard. Hay was blown from windrows. One man was killed by a falling tree at Sand Creek Reservoir in Fremont Co; one girl was killed and another injured by a falling tree at Riverside Campground along Henry's Fork. Winds were clocked at 51mph at Twin Falls, 66mph at Pocatello and 71mph at Rexburg.									
IDZ003 Western Jefferson Co.	8	1900MST			0	0	3	0	Thunderstorm wind
Power outages occurred when a thunderstorm blew trees onto power lines in the Mud Lake area. Lightning took out other power lines and equipment.									
IDZ003 Pocatello, Bannock Co.	16	1200MST			0	0	3	0	Lightning
Lightning struck the roof of a house in the Country Club Estates subdivision in Pocatello, causing \$200 damage from the resulting fire.									
IDZ004 Northeast of Inkom, Bannock Co.	23	1300MST-1600MST			0	0	3	0	Flash flood
Between 1pm and 4pm, a flash flood caused mudslides at Green Canyon and Webb Canyon Road and washouts of U.S. Highway 30 and Old State Highway 91.									
KDZ004 Near Inkom, Bannock Co.	24	1400MST-1500MST			0	0	2	0	Flash flood
Large amounts of debris up to one foot deep were swept onto county roads.									
IDZ004 Bannock Co.	25	Unknown			0	0	2	0	Flash flood
Water and debris washed over Inkom Road between Inkom and McCammon.									
IDZ003 Marysville, Fremont Co.	26	1600MST			0	1	0	0	Lightning
Ball lightning exploding inside a house threw a youth 12 feet across a room, causing minor injuries.									
IDZ003 NW of Blackfoot, Bingham Co.	28	1800MST			0	0	3	0	Thunderstorm wind
Thunderstorm winds blew a tree onto power lines. A portion of a roof was blown off a mobile home at Shelley.									
11 ILLINOIS									
Jefferson Co, SE Mc. Vernon	01	1345CST	1	125	0	0	?	?	Tstm. Wind (60)
Downburst thunderstorm winds estimated at 70mph by National Weather Service personnel blew down several large trees along Route 15. The path of wind damage was about 1 mile long, and was 400 feet wide where it crossed Route 15.									
Christian and Macon Counties	06	1607CST			0	0	0	0	Funnel clouds
Two funnel clouds, observed by many residents of the area, moved northeast at 25mph, and lasted about 40 minutes beginning at 507pm CDT. The clouds first appeared 5 NW Taylorville (Christian Co) and moved northeast, dissipating near Blue Mound (Macon Co). Another funnel appeared briefly at 555pm CDT just SE of Decatur (Macon Co).									
McHenry and Lake Counties	06	1758CST-1845CST			0	0	4	0	Tstm. Wind (60)
Thunderstorm winds resulted in widespread tree damage across McHenry and Lake Counties. Lightning caused two house fires in Lake Villa (Lake Co) at 1758CST.									
Crystal Lake to Round Lake, McHenry and Lake Counties	06	1820CST-1845CST	12	narrow	0	0	0	0	Tornado (F0)
A small weak tornado moved from Crystal Lake to Round Lake, aloft almost all the time along its 12-mile path. Brief touchdowns occurred in rural areas just NE of Crystal Lake, at Spring Grove, and at the intersection of Drury and Rollins Roads.									
Whiteside Co.	08	1815CST-1845CST			0	0	3	?	Tstm. Wind (65)
High thunderstorm winds resulted in widespread tree damage. Large trees blocked many highways, and many power lines were pulled down.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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					KILLED	INJURED	PROPERTY	CROPS	
ILLINOIS									
Whiteside Co.	08	1900CST-2400CST			0	0	5	?	Flash flood
		Rainfall amounts of 4 to 8 inches, and locally 10 inches along and south of U.S. Highway 30, caused rapid and extensive flooding. All streams along Route 30 were out of their banks. Three hundred families were affected by high water.							
Perry Co, 7 N Pinckneyville	09	1504CST	3	1/2 mile	0	0	4	?	Tstm. Wind (70)
		Downburst winds associated with a severe thunderstorm produced scattered damage along a path 3 miles in length and 1/2 mile wide. A weather service meteorologist estimated peak winds at 80mph. Trees blown over were all leaning to the southeast. Fallen trees damaged several buildings, mostly along Highway 127 near Rice.							
St. Clair, Clinton, and Marion Counties	09	1630CST-1730CST			0	0	?	?	Tstm. Wind, Hail, Flash Flooding
		Thunderstorm winds, hail, and flash flooding resulted in widespread damage across the 3-county area.							
O'Fallon, St. Clair Co.	09	1645CST			0	0	3	?	Hail (0.75)
Smithton, St. Clair Co.	09	1650CST			0	0	3	?	Tstm. Wind
		Trees and power lines were toppled by high winds.							
Clinton Co.	09	1700CST-1730CST-1700CST-1930CST			0	0	4	3	Tstm. Wind
					0	0	4	?	Flash flood
		High thunderstorm winds toppled trees and power lines in New Baden, Trenton and Carlyle. Minor flash flooding on most county streams and minor urban flooding in towns throughout the county were reported. Flooding was especially prevalent in the Salem area. Rains of 3 to 6 inches fell in a 3-hour period.							
Marion Co.	09	1714CST-1730CST			0	0	4	3	Hail (1.75), Tstm. Wind (65)
		75mph winds accompanied by 1 3/4 inch hail broke windows, and toppled trees and power lines at many county locations, especially at Salem and Centralia.							
Menard and Logan Counties	10	1700CST-1750CST	20	2 miles	0	0	0	4	Hail (0.8), Funnel cloud
		Hail fell in a path extending from central Menard to central Logan County. Most hail was pea-sized and very few larger stones were observed. A small funnel cloud was also seen in the Latham area on the Menard-Logan county line.							
Kankakee, Will, Grundy, and Livingston Counties	10	1715CST-1755CST			0	0	2	2	Tstm. Wind (50), Hail (1.00), Funnel cloud
		Winds estimated at 60mph caused minor property and crop damage in the 4-county area. A funnel cloud, observed by many residents, moved from Gardner (Grundy Co) at 1715CST northeast to Peotone (Will Co) at 1755CST, then disappeared.							
St. Clair Co, E. St. Louis	11	1445CST-1515CST			0	0	4	0	Tstm. Wind (52)
		Thunderstorm winds downed several hundred trees in East St. Louis, blocking roads and pulling down power lines. Winds gusted to 60mph at the East St. Louis Airport at 1505CST.							
Marion Co, Odin to Iuka	11	1600CST-1630CST			0	0	3	0	Tstm. Wind, Flash flood
		Winds uprooted trees, downed power lines and overturned a trailer between Salem and Iuka. Most damage was just N of Highway 50. Flash flooding in eastern portions of the county with minor damage to several bridge abutments occurred.							
Cook Co, Chicago	12	0800CST			0	4	0	0	Lightning
		Four soccer players were burned when lightning struck a tree under which they were standing.							
Franklin Co, Christopher	12	1329CST			0	0	?	?	Tstm. Wind
		Thunderstorm winds blew down several large trees.							
Jackson, Union, Williamson, and Johnson Counties	12	1500CST-1555CST			0	0	4	0	Tstm. Winds (55)
		Thunderstorm winds, accompanied by heavy rain and small hail, uprooted trees, resulting in power outages in many communities in the 4-county area.							
Franklin Co, South half	12	1700CST-1900CST			0	0	3	0	Flash flood
		Heavy rains caused flash flooding, especially in the West Frankfort area.							
Perry Co, Pinckneyville	14	1800CST			0	1	0	0	Lightning
		A youth was struck by lightning at the Elvin Rigdon Ball Park.							
ILLINOIS									
McHenry, Lake, and N Cook Counties	15	1830CST-1930CST			1	0	4	0	Tstm. Wind (65)
		Thunderstorm winds estimated at 75mph downed trees and power lines. Damage occurred in McHenry Co. about 1830CST, in Lake Co. 1850-1920 CST, and across extreme N Cook Co. 1900-1930CST. In a related incident, surging winds and waves swept a young woman off a Lake Michigan pier on Chicago's south side at 2000CST. F190							
Winnebago Co, Rockton	19	1740CST			0	0	0	0	Hail (1.10)
McHenry Co, Lake in the Hills	19	1850CST			0	0	3	0	Tstm. Wind (60)
		Thunderstorm winds toppled trees and power lines.							
Cook Co, NE O'Hare Airport	24	1440CST			0	0	0	0	Hail (0.75), Tstm. Wind (60)
		Hail and high winds occurred just NE of O'Hare Airport.							
Effingham Co, N half	25	1700CST-1730CST			0	0	5	?	Tstm. Wind, Hail (1.00)
		High winds accompanied by large hail caused widespread damage in rural areas across the north half of the county, as well as in the communities of Effingham, Teutopolis, Wheeler and Shumway. Trees and power lines were down, one fire was caused by lightning, and a radio antenna toppled in a rural area east of Effingham. Many houses were damaged by fallen trees.							
Southwest Illinois	28	0015CST-0230CST			1	0	5	3	Tstm. Wind (70)
		Severe thunderstorms raked a large area of southwest Illinois, causing widespread wind damage. Large trees fell, power lines were pulled down, and many houses were damaged. Thunderstorms advanced across the area from the northwest. Specific reports are as follows: Adams Co - 0015CST; hundreds of trees down in Quincy. Cleanup operations were not completed after a week; 78mph winds measured; one electrocution death due to a fallen power line; 500 separate power outages. Scott and Pike Counties - 0030CST; 45 to 60mph winds; widespread minor damage. Green and Macoupin Counties - 0115CST; high winds and widespread tree damage. Montgomery and Bond Counties - 0200CST; high winds and many large trees down. M080							
Shelby Co, Moweaqua	28	0200CST			0	0	3	0	Tstm. Wind
		Many large trees were downed.							
Hancock Co, Hamilton area	29	0030CST			0	0	3	0	Tstm. Wind (60)
		Winds measured at 70mph damaged trees and power lines. Several houses were damaged by fallen trees.							
Cumberland Co, Greenup	30	0115CST			0	0	3	0	Tstm. Wind
		High winds toppled large trees onto 3 houses, and lightning killed several head of livestock.							
Henry Co, Atkinson area	31	0200CST			0	0	3	?	Tstm. Wind (60)
		55 to 75mph winds toppled many trees in the area.							
Central and Southern Illinois	31	0200CST-0530CST			0	0	5	3	Tstm. Wind, Lightning
		Severe thunderstorms caused widespread wind damage, and lightning started many fires. Reports by county: Knox - 0100CST to 0140CST; 1000 houses lost electric power, especially around Galesburg. Fulton - 0125CST to 0200CST; widespread tree damage; Canton especially hard hit. Peoria - 0125CST to 0200CST; widespread tree damage. Tazewell - 0130CST to 0215CST; thousands of trees down; widespread power outages; 5000 houses without power. Macon - 0225CST to 0245CST; widespread tree damage; 4 house fires. Piatt - 0230CST to 0300CST; widespread tree damage; 3 houses with significant damage rural area N Piatt Co; 3 inches of rain 0230CST-0430CST, minor flooding. Moultrie - 0235CST to 0300CST; widespread tree damage and downed power lines. Christian - 0345CST; 65mph winds measured at Taylorville; hundreds of trees downed. Cumberland - 0345CST; widespread tree damage; building unroofed at Neoga. Richland - 0415CST to 0530CST; tree damage; barn destroyed 6 E Olney; 2 oil tanks exploded as a result of lightning. Lawrence - 0430CST to 0530CST; trees down; electric service disrupted in many rural areas. Jefferson - 0515CST to 0600CST; many trees down; barn fire due to lightning near Mt. Vernon.							
Edwards, Wabash, and White Counties	31	0600CST-0625CST			0	0	3	?	Tstm. Wind
		Widespread tree damage, minor at most locations, occurred in the 3 counties. Power lines were downed in Mt. Carmel and Enfield.							

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					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS	
ILLINOIS										INDIANA									
Cook Co., Chicago	31	1555CST			0	6	3	0	Heavy rain	Adams Co., Monroe	11	1540 EST			0	0	2	0	Tstn. wind
									Torrential rain (3 inches in one hour) in a localized area on the near north side caused a brick wall, already weakened by an earlier fire in the building, to collapse onto 2 automobiles.										Winds downed tree limbs in Monroe. Highway employees removed truckloads of debris.
12 INDIANA										Hendricks Co., Pittsboro	11	1635 EST			0	0	2	0	Tsta. wind
Vanderburgh Co., Near Highway 62	01	1518 EST			0	0	2	0	Tsta. wind										Trees were downed by strong thunderstorm winds.
									Strong winds downed large trees.	Hamilton Co.	11	1655 EST			0	0	3	0	Tsta. wind
Warrick Co., Near Alcoa Company	01	1526 EST	short narrow		0	0	0	0	Tornado (F0)										Trees and power lines were downed by strong winds at 146th St. 2 miles east of U.S. 31.
									A tornado touched down briefly, but did no damage.	Marion Co., Indianapolis	11	1710 EST			0	0	3	0	Tsta. wind (52)
Fayette Co., Orange	01	1830 EST			0	0	3	2	Tsta. wind										A television station in downtown Indianapolis measured a wind gust to 60 mph. Numerous trees were downed around the city, some on cars.
									Two trailers were blown off their foundations, trees were downed, and some outbuildings were damaged. Also, 40 acres of corn were flattened.	Mancock Co., Fortville	11	1730 EST			0	0	3	0	Tsta. wind
Brown Co., Mt. Liberty	01	1900 EST			0	0	2	0	Tsta. wind										Strong winds blew over an insulator on a power transformer, leaving several homes in the area without power. A second outage occurred when a utility pole was blown over.
									Four to six large trees were uprooted.	Randolph Co., 16N Richmond	11	1842 EST			0	0	0	0	Hail (1.75)
Wabash Co., Wabash	07	2030 EST			0	0	4	0	Tsta. wind	Wayne Co., Richmond	11	1842 EST			0	0	3	0	Tsta. wind (60)
									Winds destroyed part of the roof of a drug store and also of an apartment building in Wabash. Several trees were uprooted.										An amateur radio operator in Richmond measured a wind gust to 69 mph.
Wells Co., 6N Bluffton	07	2146 EST			0	0	2	0	Tsta. wind, Hail	Decatur Co., Greensburg	11	1910 EST			0	0	3	0	Tsta. wind
									Large hail was reported and trees were uprooted west of Bluffton. One vehicle was damaged when it struck a tree in the road.										A window was blown out, three trees were uprooted, and some roof damage occurred in Greensburg.
Marion Co., Southport	08	1510 EST			0	0	4	0	Tsta. wind	Jennings Co., Butlerville	11	1945 EST			0	0	2	0	Tsta. wind
									Strong thunderstorm winds caused damage to the roofs of two buildings of an apartment complex about 2 miles south of Southport, and several trees were uprooted. Also, an elevated wind tower in Southport measured a gust to 70 mph.										Trees were downed between Butlerville and Nebraska and between Queensville and Vernon.
Johnson Co., Greenwood	08	1510 EST			0	0	2	0	Tsta. wind	Monroe Co., New Unionville	12	1130 EST			0	0	2	0	Tsta. wind
									A few large trees were uprooted.										Trees were downed by strong winds in New Unionville.
Shelby Co., Freeport	08	1545 EST			0	0	2	0	Tsta. wind	Bartholomew Co., Edinburg	12	1245 EST			0	0	2	0	Tsta. wind
									Several large trees were uprooted.										Trees were downed in and just south of Edinburg.
Marion Co., Southport	08	1652 EST			0	0	0	0	Tsta. wind (63)	Shelby Co., Mt. Auburn	12	1245 EST			0	0	2	0	Tsta. wind
									An elevated wind tower in Southport measured a gust to 72 mph. In the next 5 to 10 minutes, strong winds blew out some windows and damaged the roof at another apartment complex in Southport. Trees were uprooted and power lines were downed in the area.										Trees were downed near Mt. Auburn.
Johnson Co., Bargersville	08	1730 EST			0	0	2	0	Tsta. wind	Rush Co., Rushville	12	1300 EST			0	0	0	0	Tsta. wind (51)
Whiteland	08	1740 EST			0	0	2	0	Tsta. wind										A radio station in Rushville reported winds of 65 mph.
									Trees were uprooted in Bargersville, a sign was blown over in Whiteland, and 55 to 60 mph winds were estimated in Franklin.	Fayette Co., 2S Connersville	12	1320 EST			0	0	2	0	Tsta. wind
Huntington Co., 2S Mt. Edna	11	1429 EST			0	0	3	0	Tsta. wind										Large trees were blown down onto S.R. 121 near Connersville.
									Some trees were uprooted while others were blown down.	Wells Co. to Adams Co.	12	1850 EST	7	narrow	0	0	3	0	Tornado (F1)
Jay Co., Several locations	11	1525 EST			0	0	2	0	Tsta. wind										A small tornado touched down 1 1/2 miles east of Ossian in Wells County and moved east into Adams County, touching down in the countryside as many as 5 times. The tornado was on the ground approximately 1/2 mile in its 7 mile length of travel. Damage was minor with some power lines and trees down. Some minor roof damage was reported in both counties, and a small shed was destroyed in Wells County.
Adams Co., Monroe	11	1530 EST			0	0	3	0	Tsta. wind	Union Co., North Liberty	12	1922 EST			0	0	2	0	Tsta. wind
									Some telephone poles, trees, and lines were taken down in the Monroe and Berne areas.										Trees were blown down onto U.S. 27 near North Liberty.
Parke Co., 5S Rockville	11	1530 EST			0	0	2	0	Tsta. wind	Monroe Co., Bloomington	14	1630 EST			0	0	0	0	Hail (0.75)
									Strong winds downed numerous tree limbs south of Rockville.										

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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									
Kosciusko Co: Etna Breen Warsaw	15	2308 EST			0	0	?	?	Tsta. wind (52)
	15	2315 EST	.5	30	0	0	4	?	Tsta. wind
	A spotter reported estimated wind greater than 60 mph at Etna Green. In Warsaw, downed trees damaged buildings, cars, and power lines. Three to four thousand customers were left without power. A golf cart shed was destroyed and ten trees on the golf course were downed.								
St. Joseph Co, 38 South Bend	25	1445 EST			0	0	5	?	Tsta. wind
	A building under construction collapsed. Winds were estimated at 40 to 50 mph.								
Elkhart Co, Goshen	25	1550 EST			0	0	?	?	Tsta. wind
	Large trees 12 to 18 inches in diameter were downed at Doshen. Numerous power outages occurred due to lightning and to fallen tree limbs. Minor flooding occurred throughout Elkhart County.								
DeKalb Co, Several locations	25	1720 EST			0	0	3	0	Tsta. wind
	Downed trees and power lines blocked some roads across the county.								
Cass Co, Galveston	25	1705 EST			0	0	0	?	Hail (1.5)
Miami Co, Wamegon	25	1710 EST			0	0	0	?	Hail (1.5)
Howard Co, 34 Greentown	25	1715 EST			0	0	0	?	Hail (1.0)
Plevna	25	1715 EST			0	0	?	?	Hail (1.5)
	A continuous swath of hail damage about 1/4 mile wide occurred from U.S. 35 on the Cass/Howard county line across northern Howard and southern Miami Counties. At Plevna the path widened to 1 1/2 miles. Witnesses at Plevna said the hail, ranging in diameter from 3/4 to 1 1/2 inches, covered the ground to a depth of 1 to 2 inches. Standing corn was shredded completely.								
Huntington Co, Huntington	25	1741 EST			0	0	2	0	Tsta. wind
	Strong winds downed trees and power lines. Winds up to 55 mph were reported.								
Montgomery Co: 25 Waynetown	25	1750 EST			0	0	0	0	Hail (2.75)
Parkersburg	25	1800 EST			0	0	2	0	Tsta. wind
	A few large trees downed by thunderstorm winds were blocking S.R. 231 near Parkersburg.								
Howard Co, Greentown	25	1755 EST			0	0	2	0	Tsta. wind
	Several trees were down and blocking county roads near and east of Greentown.								
Allen Co: Harlan	25	1756 EST			0	0	0	0	Tsta. wind
Woodburn	25	1805 EST			0	0	2	0	Tsta. wind
	Strong winds knocked down tree limbs 3 to 4 inches in diameter in Harlan. A few minutes later, 4 large trees were downed on the west edge of Woodburn.								
Howard Co: Russiaville	25	1815 EST			0	0	2	0	Tsta. wind
25 Kokono	25	1825 EST			0	0	3	0	Tsta. wind
	Several trees were uprooted near Russiaville. Some power lines and power poles downed by strong winds landed on mobile homes near Kokono.								
Grant Co, Swazyee	25	1820 EST			0	0	2	0	Tsta. wind (52)
	Trees and power lines were downed as winds gusted to 60 mph.								
Clinton Co, Boyleston	25	1830 EST			0	0	2	0	Tsta. wind
	Several trees downed by strong winds were blocking S.R. 29 near Boyleston.								
Hendricks Co, Danville	25	1935 EST			0	0	2	0	Tsta. wind
	Downed trees blocked residential streets in Danville.								
INDIANA									
Delaware Co, Eaton	25	1905 EST			0	0	2	0	Tsta. wind
	Trees were uprooted in Eaton.								
Blackford Co, SW part of county	25	1915 EST			0	0	4	0	Tsta. wind
	A barn was blown down at 4005 and 100W in southwestern Blackford County.								
Madison Co, Alexandria	25	1915 EST			0	0	2	0	Tsta. wind
	Downed trees blocked residential streets in Alexandria.								
Hendricks Co, Avon	25	1925 EST			0	0	2	0	Tsta. wind
	Strong winds downed trees in Avon.								
Hamilton Co, 2W Noblesville	25	1930 EST			0	0	2	0	Tsta. wind
	Several trees were downed near Noblesville.								
Marion Co, Indianapolis	25	1935 EST			0	0	2	0	Tsta. wind
	Strong winds downed trees on the west side of Indianapolis.								
Clay Co, Harnony	25	1940 EST			0	0	2	0	Tsta. wind
	Trees were uprooted just east of and 3 miles north of Harnony.								
Clay Co: Staunton	25	2000 EST			0	0	2	0	Tsta. wind
15W Hoosierville	25	2210 EST			0	0	3	0	Tsta. wind
	Shortly after strong winds downed trees in Staunton, a large plate glass window was blown out at a truck stop near Hoosierville.								
Randolph Co, Winchester	25	2015 EST			0	0	2	0	Tsta. wind
	Strong winds downed trees in Winchester.								
Vigo Co, Numerous locations	25	2020 EST			0	0	2	0	Tsta. wind
	Numerous trees were uprooted and power outages were widespread across the county.								
Owen Co: Vandalia	25	2030 EST			0	0	2	0	Tsta. wind
Spencer	25	2040 EST			0	0	3	0	Tsta. wind
Gosport	25	2045 EST			0	0	2	0	Tsta. wind
	Several trees were uprooted in Vandalia. In Spencer, several trees were blown down on vehicles and houses. A few minutes later, trees were downed in Gosport.								
Vanox Co, 2NE Vincennes	31	0718 EST			0	0	2	0	Tsta. wind
	Large trees were blown down.								
Gibson Co, 25 Oakland City	31	0712 EST			0	0	2	0	Tsta. wind
	Large trees were blown down.								
Vanderburgh Co, at Harrosey Way & Petersburg Rd	31	0750 EST			0	0	3	0	Tsta. wind
	Power lines and large trees were blown down.								
13 IOWA									
Wright County, near Holmes	04	1340 CST			0	0	0	0	Funnel Cloud
	A funnel was sighted about 10 miles west of Clarion.								
Pottawattamie County, Carter Lake	05	1745 CST			0	0	4	2	Wind (63 MPH)
	Strong winds brought power lines and tree limbs down at Carter Lake, and knocked a radio station off the air at Council Bluffs.								
Wayne County, Millerton	06	1315 CST			0	0	0	0	Cold Air Funnel
Wayne County, 1 NE Cambria	06	1617 CST			0	0	0	0	Cold Air Funnel
	Funnel clouds were sighted in northern Wayne County.								
Cass County, E of Lewis	07	1522 CST			0	0	0	0	Cold Air Funnel
Washington County, 12 NW Washington	07	1554 CST			0	0	0	0	Cold Air Funnel
	Cold air funnels were sighted in a couple of different locations.								

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS			
IOWA										IOWA											
O'Brien County, 3E Pringhar	28	1900	CST			0	0	4	3	Wind (60+ MPH)	Jasper County, Kellogg	28	2150	CST			0	0	5	4	Wind (60+ MPH)
Buena Vista County, Sioux Rapids	28	1900	CST			0	0	3	4	Wind (70+ MPH)	Polk County, Ankeny	28	2158	CST			0	0	5	3	Wind (60+ MPH)
Buena Vista County, 1S Sioux Rapids	28	1903	CST			0	0	3	5	Hail (2.75)	Marshall County, near Melbourne	28	2200	CST			0	0	4	4	Wind (60+ MPH)
Pocahontas County, Laurens	28	1913	CST			0	0	3	4	Hail (1.0)	Warren County, Hartford	28	2200	CST			0	0	5	4	Wind (60+ MPH)
O'Brien County, Sutherland	28	1913	CST			0	0	4	3	Wind (60+ MPH)	Marion County, Swan	28	2200	CST			0	0	4	4	Wind (60+ MPH)
Buena Vista County, Marathon	28	1915	CST			0	0	3	4	Hail (1.0)	Marion County, Knoxville	28	2215	CST			0	0	5	4	Wind (60+ MPH)
Pocahontas County, Flover	28	1915	CST			0	0	3	4	Hail (1.0)	Poweshiek County, Grinnell	28	2220	CST			0	0	5	4	Wind (80+ MPH)
Cherokee County, Cherokee	28	1923	CST			0	0	5	4	Wind (80+ MPH)	Marion County, Lake Red Rock	28	2230	CST			0	0	4	4	Wind (60+ MPH)
Buena Vista County, Albert City	28	1925	CST			0	0	5	3	Wind (70+ MPH)	Mahaska County, New Sharon	28	2230	CST			0	0	4	4	Wind (60+ MPH)
Woodbury County, at Sioux City	28	1929	CST			0	0	3	3	Hail (1.5)	Adair County, 10NW Creston	28	2231	CST			0	0	0	0	Funnel Cloud
Monona County, near Kennebec	28	1929	CST			0	0	0	0	Funnel Cloud	Poweshiek County, Montezuma	28	2235	CST			0	0	6	4	Wind (60+ MPH)
Buena Vista County, Storm Lake	28	1929	CST			0	0	4	2	Wind (63 MPH)	Adair County, 3 W Greenfield	28	2236	CST			0	0	5	4	Hail (1.75)
Pocahontas County, Pocahontas	28	1930	CST			0	0	4	3	Wind (60+ MPH)	Poweshiek County, Brooklyn	28	2238	CST			0	0	4	4	Wind (60 MPH)
O'Brien County, Hartley	28	1930	CST			0	0	5	4	Wind (70+ MPH)	Monroe County, 8 NE Albia	28	2240	CST			0	0	4	4	Wind (60+ MPH)
O'Brien County, 4S Hartley	28	1935	CST			0	0	4	3	Wind (60+ MPH)	Marion County, Marysville	28	2245	CST			0	0	4	4	Wind (60+ MPH)
Monona County, near Mapleton	28	1940	CST			0	0	0	0	Funnel Cloud	Wapello County, near Eddyville	28	2248	CST			0	0	4	4	Wind (60 MPH)
Calhoun County, Pomeroy to Twin Lakes	28	1947?	CST	4	150?	0	0	5	4	Tornado (F2)	Poweshiek County, 5SE Montezuma	28	2250	CST			0	0	5	5	Wind (70+ MPH)
Woodbury County, Stone State Park, Sioux City	28	1950	CST			0	0	3	4	Hail (1.75)	Mahaska County, Barnes City	28	2255	CST			0	0	6	5	Wind (70+ MPH)
Pocahontas County, Palmer	28	1953	CST			0	0	4	3	Wind (60+ MPH)	Keokuk County, Sigourney	28	2255	CST			0	0	4	4	Wind (60 MPH)
Webster County, Clara	28	1955	CST			0	0	4	2	Wind (60+ MPH)	Wapello County, Ottumwa	28	2300	CST			0	0	4	4	Wind (60 MPH)
Woodbury County, Sioux City	28	1959	CST			0	0	2	3	Hail (0.75)	Appanoose County, 3NW Unionville	28	2315	CST			0	0	5	4	Wind (60+ MPH)
Humboldt County, Humboldt	28	2000	CST			0	0	4	2	Wind (50+ MPH)	Jefferson County, Fairfield	28	2315	CST			0	0	4	3	Wind (60+ MPH)
Calhoun County, Twin Lakes	28	2000	CST			0	0	4	2	Wind (60+ MPH)	Van Buren County, 8NW Keosauqua	28	2318	CST			0	0	4	4	Wind (60+ MPH)
Woodbury County, Sioux City	28	2002	CST			0	0	3	4	Hail (1.75)	Davis County, Troy	28	2325	CST			0	0	4	4	Wind (60+ MPH)
Woodbury County, 5E Sioux City	28	2004	CST			0	0	4	2	Wind (60+ MPH)	Van Buren County, Birmingham	28	2328	CST			0	0	4	4	Wind (60+ MPH)
Crawford County, Charter Oak	28	2005	CST	?	?	0	0	?	?	Tornado (F0)	Van Buren County, near Mt. Pleasant	28	2338	CST			0	0	5	4	Wind (60+ MPH)
Woodbury County, Sioux City Airport	28	2010	CST			0	0	2	4	Hail (0.75)	Van Buren County, Bonaparte	28	2338	CST			0	0	4	4	Wind (60+ MPH)
Sac County, Sac City	28	2010	CST			0	0	4	4	Wind (58+ MPH)	Lee County, Donnellson	28	2348	CST			0	0	4	4	Wind (60+ MPH)
Calhoun County, Rockwell City	28	2010	CST			0	0	4	2	Wind (60+ MPH)	Lee County, Keokuk	28	2355	CST			0	0	5	4	Wind (60+ MPH)
Webster County, Fort Dodge	28	2015	CST			0	0	4	2	Wind (60+ MPH)	Van Buren County, Farmington	28	2358	CST			0	0	4	4	Wind (60+ MPH)
Webster County, Callender	28	2020	CST			0	0	4	2	Wind (60+ MPH)	<p>Ferocious storms developed in South Dakota and Nebraska and moved into Iowa in an unstable northwest flow situation. The first of these storms produced a tornado that crossed into Iowa south of Sioux City, slammed into a coal-burning power plant and caused between 25 and 50 million dollars damage. The containment building was not damaged, but almost every other structure at the facility was severely damaged. The storm injured slightly a guard who was at his post in a concrete guardhouse. The tornado continued across farmland, then damaged a convenience store and demolished a motel at the town of Sloan before lifting up. Funnels were spotted and hail came from this same thunderstorm cell, but the vortex apparently never touched down again. (Border Crosser)</p> <p>Another storm system moved into northwest Iowa and traversed the state, though the power of this storm was exhibited in strong winds and a few tornadoes, rather than one massive twister. Some hail accompanied the storm as well. Many outbuildings, trees, powerlines, and other structures were felled in a path that began near Spencer and continued past Keokuk. In the Central Iowa area alone, 4 to 5 million dollars damage occurred to the electrical utility system. One of the most spectacular events occurred near Boone, where a train crossing the Des Moines River on a 180 foot high bridge was derailed, dumping carloads of debris into the water below. In the Des Moines area, trees and power lines were snapped off, falling onto houses and cars; the worst damage occurred near Saylorville Lake, Berwick, and Altoona.</p>										
Webster County, Lehigh	28	2030	CST			0	0	4	2	Wind (60+ MPH)											
Carroll County, Carroll	28	2030	CST			0	0	4	3	Wind (60+ MPH)	Pottawattamie County, near Oakland	30	2150	CST			0	0	2	3	Hail (1.5)
Sac County, Wall Lake	28	2030	CST			0	0	4	4	Wind (60+ MPH)	<p>Large hail fell briefly in the vicinity of Oakland.</p>										
Crawford County, 10W Denison	28	2040	CST			0	0	0	0	Funnel Cloud											
Webster County, 1S Stracford	28	2045	CST			0	0	5	2	Wind (65+ MPH)											
Crawford County, 4 W Denison	28	2055	CST			0	0	0	0	Funnel Cloud											
Hamilton County, Webster City	28	2100	CST			0	0	4	3	Wind (60+ MPH)											
Boone County, 3E Ogden	28	2100	CST			0	0	5	3	Wind (70+ MPH)											
Greene County, Grand Junction	28	2100	CST			0	0	4	4	Wind (60+ MPH)											
Boone County, near Madrid	28	2110	CST			0	0	4	2	Wind (60+ MPH)											
Polk County, 4N Polk City	28	2116	CST			0	0	4	2	Wind (60+ MPH)											
Dallas County, near Granger	28	2117	CST			0	0	4	3	Wind (60+ MPH)											
Polk County, West Side of Des Moines	28	2118	CST			0	0	0	0	Funnel Cloud											
Polk County, Windsor Heights	28	2120	CST			0	0	5	0	Wind (62 MPH)											
Polk County, Berwick	28	2124	CST			0	0	0	0	Funnel Cloud											
Polk County, East Side of Des Moines	28	2125	CST			0	0	5	0	Wind (62 MPH)											
Polk County, Altoona & Bondurant	28	2127	CST			0	0	6	4	Wind (80+ MPH)											
Story County, Nevada	28	2128	CST			0	0	4	2	Wind (60+ MPH)											
Polk County, Des Moines Airport	28	2132	CST			0	0	4	0	Wind (61 MPH)											
Warren County, Carlisle	28	2132	CST			0	0	5	2	Wind (60 MPH)											
Jasper County, Colfax	28	2140	CST			0	0	4	4	Wind (60+ MPH)											
Audubon County, Exira	28	2140	CST			0	0	4	4	Wind (60+ MPH)											
Polk County, Des Moines Airport	28	2144	CST			0	0	5	2	Wind (67 MPH)											
Polk County, Mitchellville	28	2148	CST			0	0	5	4	Wind (70 MPH)											

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					KILLED	INJURED	PROPERTY	CROPS	
14 KANSAS									
Rawlins Co, SS McDonald	02	1635CST			0	0	0	4	Hail(1.75)
	A thunderstorm moved from Nebraska through Rawlins County and dropped 3/4 inch hail near McDonald. Some crop damage resulted.								
Mitchell Co, Beloit	05	1700CST			0	0	4	2	TSTM Wind(70kt)
Republic Co, Scandia	05	1715CST			0	0	4	2	TSTM Wind
	05	1730CST			0	0	3	3	Hail(1.00)
	A severe thunderstorm developed southwest of Beloit and moved northeast toward Belleville. Strong wind gusts downed power lines and trees, and blew the roof from a building in Beloit. Large hail caused some crop damage near Scandia.								
Ford Co, 1W Ford	05	1855CST			0	0	2	3	TSTM Wind(52kt), Hail(1.75)
	A severe thunderstorm dropped large hail and produced winds estimated near 60mph over eastern Ford County near the town of Ford.								
Leavenworth Co, Leavenworth	06- 07	0500- 0500CST			0	0	6	4	Flash Flood
	Major flash flooding resulted from torrential rains that hit Leavenworth shortly after 0500CST and again around dusk on the 6th. The Leavenworth Water Plant officially measured 10.37 inches of rain from early morning the 6th through mid morning on the 7th. Some unofficial reports in the town totaled more than 12 inches. Many residents claimed the flooding was the worst they could remember.								
	The flooding was concentrated along 3 Mile and 5 Mile Creeks in and near the town. Most serious flooding occurred the morning of the 6th and after sunset that evening. At least 15 businesses and 50 homes sustained damage. A good number of vehicles were also flooded.								
	The heavy rain and flooding was concentrated in the Leavenworth area. Surrounding towns received 3-5 inch rains and hardly any flooding.								
Marshall Co, Marysville	06- 07	1000- 1000CST			0	0	5	4	Flood
	Heavy rains in southern Nebraska around Beatrice sent the Blue River out of its banks south to Tuttle Creek Reservoir. The river went nearly 5 feet above flood stage at Marysville and put parts of the west side of town under water. Fifty residences and businesses suffered water damage. U.S. Highways 36 and 77 were closed from 1300CST on the 6th until 0700CST on the 7th. The river crested about 1800CST on the 6th.								
Sumner Co, Belle Plaine Covley Co, 3N Winfield 8N Winfield 5NE Udall	06	1715CST			0	0	4	3	TSTM Wind
	06	1715CST			0	0	0	0	Funnel
	06	1724CST	Short Narrow		0	0	0	0	Tornado(F0)
	06	1730CST			0	0	3	0	TSTM Wind
	A severe thunderstorm produced wind gusts greater than 60 miles an hour as it crossed northeast Sumner and northwest Covley Counties. Ten power poles near Belle Plaine and 12 more near Udall were knocked over. Major tree damage was done at Belle Plaine and a large metal building was destroyed there. A funnel was spotted 3 miles north of Winfield. It touched ground briefly 8 miles north-northeast of Winfield, but caused no damage.								
McPherson Co, McPherson	07	1435- 2400CST			0	0	4	3	Flood
	More than 4 inches of rain fell in McPherson. Runoff and ponding flooded many streets and a few homes.								
Washington Co, 5N Washington	08	1848CST			0	0	0	4	Hail(1.00)
	A severe thunderstorm dropped large hail and damaged some crops north of Washington.								
Sheridan Co, 7N Hoxie	09	1500CST			0	0	0	4	Hail(1.00)
	A severe thunderstorm developed northwest of Hoxie and dropped inch diameter hail as it moved east. A good deal of crop damage resulted.								
KANSAS									
Shawnee Co, Topeka	09	1825CST			0	0	3	2	TSTM Wind(52kt), Hail(1.50)
	A severe thunderstorm dropped 1.5 inch diameter hailstones and produced winds estimated at 60mph as it crossed the north side of Topeka. Minor damage resulted.								
Mitchell Co, 7S Beloit	09	1830CST			0	0	0	3	Hail(1.00)
1S Asherville	09	1850CST			0	0	0	0	Funnel
	A severe thunderstorm dropped inch diameter hail and damaged crops south of Beloit. A funnel was sighted near Asherville.								
Shawnee Co, Watson	10	1410CST			0	0	3	0	TSTM Wind
	Thunderstorm winds knocked down 10 power poles near Shawnee Heights High School southeast of Topeka. A small storage shed was also torn apart and blown several blocks.								
Harvey Co, S of Burrton Newton	10	1420CST			0	2	2	0	Lightning
	10	1430CST			0	0	4	0	TSTM Wind(74kt)
	Lightning struck a fence and arced to a car south of Burrton. Two girls who were touching the car suffered nerve and muscle injuries. Winds measured at 85 mph hit the Newton Airport a little later. Large trees were blown and a tractor-trailer rig was overturned at Newton.								
Chase Co, Cottonwood Falls Strong City Lyon Co, Plymouth Emporia Olpe	10	1536CST			0	0	4	0	TSTM Wind(52kt)
	10	1536CST			0	0	4	0	TSTM Wind
	10	1545CST			0	0	3	0	TSTM Wind(52kt)
	10	1555CST			0	0	4	0	TSTM Wind
	10	1610CST			0	0	3	0	TSTM Wind(52kt)
Osage Co, Osage City 4S Overbrook	10	1645CST			0	0	5	0	TSTM Wind(69kt)
	10	1700CST			0	0	3	0	TSTM Wind
Franklin Co, Ottawa	10	1720CST			0	0	2	0	TSTM Wind
	A thunderstorm packing damaging winds formed west of Cottonwood Falls and moved east toward Ottawa. Winds damaged several barns near Cottonwood Falls and another south of Overbrook; ripped the roofs from 2 buildings in Strong City; turned over a tractor-trailer rig and ripped the roof from a mobile home in Emporia; demolished an airplane at the Osage City Airport; and downed power lines at Plymouth, Olpe and Ottawa.								
Osage Co, Melvern Lake	10	1847CST			0	2	3	0	TSTM Wind
	Strong winds from a thunderstorm tore 6 inch to foot diameter limbs from trees and overturned a few camper trailers at Lake Melvern. Two people in one of the campers suffered minor injuries.								
Trego Co, 10S Collyer	11	1857CST			0	0	3	4	Hail(3.00), Funnel
	Thunderstorms dropped large hail and produced wind gusts estimated at 60mph over southern Trego County. A funnel was also sighted.								
Near Cedar Bluff Reservoir 10S Wakeeney	11	2000CST			0	0	2	0	TSTM Wind(52kt)
	11	2010CST			0	0	0	3	Hail(1.50)
	Thunderstorms dropped large hail and produced wind gusts estimated at 60mph over southern Trego County. A funnel was also sighted.								
Ness Co, 3S Brownell Rush Co, 4N Alexander	11	2030CST			0	0	0	3	Hail(1.00)
	11	2130CST			0	0	0	3	Hail(1.00)
	A thunderstorm dropped inch diameter hail upon some spots in northern Ness and western Rush Counties.								
Russell Co, 10S Russell	11	2305CST			0	0	0	3	Hail(1.75)
	A thunderstorm dropped 3/4 inch hail and caused minor crop damage south of Russell.								
Mitchell Co, 10W Beloit	11	2330CST			0	0	0	3	Hail(1.75)
	Three quarter inch hail fell west of Beloit and caused minor crop damage.								
Marshall Co, 3NW Axtell Nemaha Co, St. Benedict Doniphan Co, Wathena	12	0030CST			0	0	4	0	TSTM Wind
	12	0050CST			0	0	3	0	TSTM Wind(52kt)
	12	0145CST			0	0	3	0	TSTM Wind(56kt)
	A thunderstorm produced localized wind gusts of 60-80mph as it moved from east of Marysville toward St. Joseph, Missouri. Most significant damage occurred near Axtell where 3 farm buildings were swept away and several others damaged.								

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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													
KANSAS																															
Cloud Co, Concordia	12	0200CST			0	0	5	0	Lightning	Stevens Co, 5N Hugoton	25	1828CST			0	0	0	3	Hail(1.00)												
									Lightning struck a tree and house in Concordia. The resulting fire left the house a complete loss.	Grant Co, 9S Ulysses	25	1843CST			0	0	0	3	Hail(1.75)												
										25	1852CST			0	0	0	0	3	Hail(1.75)												
Johnson Co, Spring Hill	12	0730CST			0	0	4	0	Lightning	Stanton Co, 10NE Johnson	25	1925CST			0	0	1	4	Hail(1.75)												
									Lightning struck and set fire to a Spring Hill home. Firemen were able to extinguish the flames before much structural damage was done, but the house sustained heavy smoke damage.	Hamilton Co, 12SE Syracuse	25	1945CST			0	0	0	3	Hail(1.75)												
Montgomery Co, Elk City Lake Chanute	12	1700CST			0	0	2	2	Hail(1.00)	Finney Co, Garden City Arpt.	25	2030CST			0	0	0	0	TSTM Wind(50kt)												
									Thunderstorms crossed the southeast corner of Kansas and dropped large hail at Elk City Reservoir and in Chanute. Minor damage resulted.										A cluster of thunderstorms dropped large hail upon some spots as they moved north from the Oklahoma Panhandle toward Garden City and Syracuse. A thunderstorm wind gust was measured at 58mph at the Garden City Airport.												
Sumner County, Mulvane Wellington Belle Plaine	13	0315CST			0	0	3	0	TSTM Wind(66kt)	Sherman Co, Goodland Airport	25	1912CST			0	0	2	0	TSTM Wind(55kt)												
									13	0330CST					0	0	3	0	TSTM Wind(61kt)	A thunderstorm produced a wind gust measured at 63 mph at the Goodland Airport.											
									13	0330CST					0	0	3	0	TSTM Wind(61kt)	25	2220CST			0	0	2	0	0	0	0	TSTM Wind(56kt)
									A thunderstorm packing winds estimated stronger than 70mph tore up trees and knocked down power lines as it crossed northern Sumner County.	Trego Co, 2S Wakeeney										A thunderstorm wind estimated at 65mph hit south of Wakeeney. Little damage resulted.											
Greeley Co, 5NW Tribune	13	1645CST			0	0	0	3	Hail(1.00)	Morris Co, 4NW Burdick	26	0300CST			0	0	5	0	Lightning												
									A thunderstorm dropped inch diameter hailstones northwest of Tribune. Minor crop damage resulted.	Johnson Co, Stanley	26	0700CST			0	0	5	0	0	0	Lightning										
Ellis Co, Ellis	13	1730CST			0	1	3	3	TSTM Wind(52kt), Hail(1.75)	Butler Co, Douglass	27	1830CST			0	0	4	0	TSTM Wind(78kt)												
Phillips Co, Logan Stuttgart 5W Phillipsburg 5W Phillipsburg Rooks Co, 5W Stockton	13	1810CST			0	0	0	3	Hail(1.00)	Sherman Co, 12NE Goodland	28	1830CST			0	0	0	3	TSTM Wind(56kt), Hail(1.50)												
									13	1830CST					0	0	4	4	Hail(2.00)	28	1845CST			0	0	4	3	3	Hail(1.50)		
									13	1835CST					0	0	0	4	Hail(1.75)	28	1855CST			0	0	0	3	3	TSTM Wind(52kt), Hail(1.50)		
									13	2005CST					0	0	0	3	TSTM Wind(52kt)	28	1924CST			0	1	4	0	0	0	0	TSTM Wind(60kt)
									A series of severe thunderstorms developed and moved through the area between Hays and Phillipsburg. They dropped large hail and produced a few strong wind gusts. A Stuttgart resident found a hailstone that measured 10 inches in circumference. The driver of a semi-trailer rig was injured when a wind gust turned over the truck along Interstate 70 just west of Ellis.	Brewster 15S Colby Logan Co, Monument	28	1950CST			0	0	0	3	3	3	Hail(1.50)	28	1957CST			0	0	0	3	3	Hail(1.00)
Barton Co, 1.5E Ellinwood	14	0400CST			0	0	5	0	Lightning											A severe thunderstorm dropped large hail and produced occasional damaging winds as it moved from north of Goodland towards Oakley. Most damage was minor, but a person was injured when a pickup and attached fifth wheel trailer were blown off Interstate 70 near Brewster.											
Atchison Co, Near Atchison	14	1040CST			0	0	4	0	Lightning	SPECIAL HAIL SUMMARY																					
									Lightning set fire to a barn near Atchison. The structure, hundreds of bales of hay and some machinery were a total loss.	Kansas-Oklahoma Hail Loss Service reports indicate hail was especially damaging to crops in the listed counties on the following dates:																					
Jewell Co, 13SE Mankato	18	2200CST			0	0	5	0	Lightning	02 Rawlins																					
									Lightning struck a farm home southeast of Mankato and set it afire. The home and contents were a total loss.	08 Republic, Washington																					
Finney Co, Garden City Gray Co, Ciararron	19	1607CST			0	0	2	3	TSTM Wind(56kt)	09 Sheridan, Thomas																					
									19	1635CST					0	0	2	4	TSTM Wind(52kt), Hail(1.75)	11 Republic, Sheridan, Thomas											
Ford Co, Dodge City Ford	19	1650CST			0	0	1	3	TSTM Wind(50kt)	13 Scott, Stanton																					
									19	1755CST					0	0	1	4	TSTM Wind(52kt), Hail(1.00)	19 Finney, Ford, Gray											
									A severe thunderstorm dropped large hail and produced damaging winds as it moved from Garden City to east of Dodge City. Wind gusts were officially measured at 64mph at the Garden City Airport and at 69mph at the Dodge City Airport. Little property damage resulted, but the hail did a good deal of damage to crops.	25 Stanton																					
																				26 Stevens											

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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	
15 KENTUCKY									
Bell County	10	1400 EST			0	0	2	0	Severe Thunderstorm Winds
		A severe thunderstorm downed trees and telephone lines in Pineville. According to the Pineville Police, some of the trees blocked roadways.							
Carter County	11	2030 EST	.1	50	0	0	4	0	Tornado (F1)
		A small tornado touched down 5 miles north of Grayson and then lifted just after crossing the Little Sandy River. Trees were uprooted and twisted within the 600 foot path. A construction trailer was tipped over and destroyed.							
Hardin County	11	2200 EST	1/4	50	0	1	4	0	Tornado (F1)
		Following a path which ran a quarter of a mile in length by fifty yards wide, a small tornado destroyed one trailer and a concrete block garage, took the roof off of another trailer, and knocked in the side of a third trailer as it wound through the hilly terrain off of Black Jack Road in southeast Radcliff. Personal belongings within the trailers were scattered for miles. An eye-witness saw the swirling black tornado just before it blew apart the concrete garage. Trees were uprooted in the storm's path, some as large as three feet in diameter. One 6-year old boy was injured minorly by flying debris from the trailer that was destroyed.							
Oldham County	12	1525EST			0	0	2	0	Severe Thunderstorm Winds
		Trees and power lines fell victim to a severe thunderstorm in northeast Oldham County near the small community of Westport. Some of the downed trees measured two feet in diameter.							
Madison County	13	1500EST			0	0	4	0	Severe Thunderstorm Winds
		Severe thunderstorm winds overturned an \$18,000 trailer truck at the height of the storm in an area known as Indian Hills, located approximately 8 miles north-northeast of Berea. At the same residence as that of the overturned truck, a porch was lifted and the porch posts were blown back, a basketball goal was flattened, the smaller trucks in the same driveway were moved sideways about 10 feet, and all of the pool furniture was blown into the pool. Other neighboring homes sustained lost roofing shingles and some downspouts were blown loose from gutters. Many trees were blown down. Satellite dishes had several sections of mesh shredded.							
		This same thunderstorm was responsible for downing trees in the Berea area.							
Pike County	13	1645EST			0	0	2	0	Strong Thunderstorm
		Trees were reported down south of Pikeville in a strong thunderstorm by the Kentucky State Police.							
Harlan and Scott Counties	14	1445EST			0	0	3	0	Severe Thunderstorm Winds
		Numerous trees were blown down during severe thunderstorm winds in Georgetown. One large tree fell on a house north of Georgetown, causing considerable damage to the structure. Downed trees blocked US 460 at Oxford, US62 east of Georgetown, and Kentucky State Route 227 near Stamping Ground.							
Bourbon County	14	1530EST			0	0	3	0	Severe Thunderstorm Winds
		Some large trees were blown in power lines and downed when a severe thunderstorm went through Paris. Trees and one barn were set on fire by lightning strikes.							
Montgomery County	14	1610EST			0	0	4	0	Severe Thunderstorm Winds
		Severe thunderstorm winds blew down several large trees across the northern two-thirds of Montgomery County. One house trailer burned to the ground from a lightning strike near Howard Mills. The small town of Judy was hardest hit. Many trees in Judy were broken off or uprooted. A local radio station and cable television station had transmitting towers knocked down.							
— KENTUCKY									
Madison County	14	1615EST			0	0	0	0	Funnel Cloud
		A funnel cloud was spotted over Kingston.							
Clay County	14	1625EST			0	0	2	0	Severe Thunderstorm winds
		Several trees were downed near Burning Springs due to severe thunderstorm winds.							
		The Kentucky State Police reported several downed trees blocking roads on Route 421 near the Fall Rock Post Office.							
Lincoln County	14	1730EST			0	0	2	0	Strong Thunderstorm Winds
		Strong thunderstorm winds knocked a few small trees down in Waynesburg.							
Lincoln County	14	1930EST			0	1	0	0	Lightning
		1930EST			0	0	3	0	Thunderstorm Wind
		A Danville man was leading a Bible class in his home when lightning struck the house. The current knocked him from his chair burning his arm. The man was the chaplain to the local Danville Fire Department.							
		Numerous trees were downed in Lincoln County, especially in the Halls Gap area.							
Jefferson County	14	2045EST			0	0	3	2	Flash Flooding
		Three to four inches of torrential rain, accompanied by extremely intense lightning and peculiar cloud formations swept through southeast Jefferson County. Flash flooding was reported in Jefferson town where water swept in whirlpools around underpasses, reaching depths up to headlight high on vehicles. Two of the four inches of rain fell in the first twenty minutes of the deluge. Numerous vehicles were stalled and traffic accidents were many. Lightning did considerable damage to power lines and trees.							
Oldham County	14	2050EST			0	0	3	2	Flash Flooding
		Between two and four inches of rain fell over southern Oldham County, causing some incidents of flash flooding. Some of the lower-lying areas of Pewee Valley had water up to the doorways in residential areas. Crestwood, one mile north of Pewee Valley, reported 3.64 inches of rain. Approximately two inches of the rain fell within twenty minutes. Lightning was terribly intense, resulting in numerous fire calls and damage to trees and power lines. The storm was accompanied by pea size hail and 45 mile per hour winds.							
Fayette County	20	1600-1700EST			0	2	4	0	Lightning, Strong Thunderstorm winds
		A 21 year old man had just slipped into his rubber soled tennis shoes when he rushed to take down a volleyball net as a thunderstorm that had interrupted his game gathered fury. When he looked up, he saw a lightning bolt racing toward him through the trees about 50 feet upward. He was hit, but not seriously injured. His 24 year old male friend that was trying to help him, however, was severely injured by the bolt. The 21 year old had put on his tennis shoes and braced his foot on the metal chair on which the barefoot, 24 year old man was standing to take down the bottom rung on the net when the lightning struck. Both of the men resided in Lexington, where the incident occurred at an apartment building near a small lake. The exact time of the lightning incident was 1639 EST.							
		Strong thunderstorms damaged homes and businesses in the Woodhill Road area of Lexington. One large roof was blown off of a Cable Television store. Large pieces of the concrete brick blocks separated from the southwest wall of the structure and were strewn across the adjoining parking lot. Large glass windows blew out into the inside of the store.							
		Large signs were blown about and damaged by the 40 to 50 mile per hour winds.							
		Two other businesses near the cable television store sustained roof and glass damage. Roof material and insulation from these three buildings were spread out over a three block area.							

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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					KILLED	INJURED	PROPERTY	CROPS	
KENTUCKY									
									<p>Pillars, to some two story apartment buildings one block from the cable television store, snapped and were blown down by the strong thunderstorm winds. The pillars measured 4 x 4 foot square and were made of solid wood. They measured 20 to 30 feet tall.</p> <p>Trees were also reported down in the northwest part of Lexington; some fell into power lines. Lightning strikes to homes blew some chimneys apart. One house that was struck by lightning had all of the nails pushed out of the sheetrock in one wall by the strike, and sustained a hole in another wall.</p>
Lewis County	20	1600EST			0	0	3	0	Severe Thunderstorm
									<p>Trees and power lines were reported down in Cottageville in severe thunderstorm winds. Hail the size of nickels fell in Emerson.</p>
Fleming County	20	1600EST			0	0	4	4	Hail, Severe Thunderstorm Winds
									<p>Hail, of unknown size, substantially damaged the tobacco crops near Poplar Grove during a severe thunderstorm. Many trees were uprooted in the same area. Some trees were blown into power lines, resulting in power outages. Barn roofs also sustained wind damage.</p>
Montgomery, Bath, and Fleming Counties	20	1730EST			0	0	3	0	Severe Thunderstorm Winds
									<p>The Kentucky State Police reported trees blown down near Mount Sterling in Montgomery County, near Owingsville in Bath County, and near Flemingsburg in Fleming County during severe thunderstorms.</p>
Pulaski County	20	1800EST			0	0	3	0	Severe Thunderstorm
									<p>A violent electrical storm swept through Somerset, causing numerous lightning-related fires. Scattered power outages occurred as trees blew down and into power lines. Lightning knocked out dispatching equipment and disabled phone lines at the Pulaski County Sheriff's Office.</p>
Jackson County	20	1830EST			0	0	3	0	Severe Thunderstorm Winds
									<p>Trees and power lines were blown down in Annville and also at Gray Hawk.</p>
Harlan County	20	2040EST			0	0	3	0	Severe Thunderstorm Winds
									<p>WHLN Radio Station reported numerous trees down in northern Harlan County due to severe thunderstorm winds.</p>
Martin County	20	2205EST			0	0	2	0	Hail
									<p>Hail, the size of nickels, fell at Beauty.</p>
Fayette County	26	1625EST			0	0	3	0	Intense Thunderstorm
									<p>Considerable lightning damage was done to trees near Camp Nelson, located 15 miles south of Lexington.</p>
Clark County	26	1635EST			0	0	3	0	Intense Thunderstorm
									<p>The Kentucky State Police reported considerable power line and tree damage from lightning near Winchester, and the thunderstorm was accompanied by small hail.</p>
Taylor County	26	1645EST			0	1	4	0	Severe Thunderstorm
									<p>Severe thunderstorms went through Campbellsville, damaging nine homes and a few businesses. Trees were blown down, an electricity meter was pulled off of a house, siding was blown off of houses, an air conditioner was pulled out of a house, and roofs sustained major damage. There was some slight damage done to trailers east of Campbellsville.</p> <p>A 75 year old woman was lifted off of the ground and set back down fifteen feet away by severe thunderstorm winds. The woman sustained minor injuries and many scratches.</p>
KENTUCKY									
Clay County	26	1706EST			0	0	3	0	Severe Thunderstorm
									<p>The Burning Springs Fire Department reported large hail of unknown size and strong damaging winds in their city during a severe thunderstorm. Trees and power lines were downed throughout the small city.</p>
Logan County	26	1730-1750EST			0	0	4	0	Severe Thunderstorm
									<p>Power lines were downed in Russellville along with numerous trees, some of which blocked main roadways in town. One barn was destroyed by lightning. Three inches of rain fell quickly during the severe storm, resulting in ponding of water and urban flooding.</p>
Northeast Breckinridge County	31	0720-0740EST			0	0	3	0	Severe Thunderstorm
									<p>Severe thunderstorm winds blew down several trees and limbs across northeast Breckinridge County... most numerous near the town of Hardinsburg.</p>
16 LOUISIANA									
Union Parish	10	AFTN			1	0	0	0	TSTM - Lightning
									<p>A 16 year old girl was struck by lightning while standing on a pier on Bayou D'Arbonne Lake. She was hospitalized and died six days later. F160.</p>
Orleans Parish	13	MRNG			1	0	0	0	Heat
									<p>A 74 year old woman died from a heat stroke in her New Orleans apartment. F74P.</p>
Orleans Parish	13	1640CST			0	1	?	0	SVR TSTM - Wind
									<p>Straight-line winds from a severe thunderstorm blew down a large billboard, several palm trees, and a 150 year old flag pole in the New Orleans French Quarter area. The flag pole fell on top of a carriage and trapped the driver.</p>
Livingston Parish	16	2025CST			0	0	4	0	TSTM - Lightning
									<p>Lightning caused a fire which did \$5,000 damage to a Denham Springs home.</p>
Union Parish	21	1810CST			0	0	?	?	SVR TSTM-Hail(1.00)
									<p>A severe thunderstorm produced one inch hail near Haile.</p>
St. Tammany Parish	27	EVE			0	0	4	?	TSTM - Lightning
									<p>Lightning caused a fire which did \$60,000-75,000 damage to a Slidell condominium.</p>
Orleans Parish	30	AFTN			1	0	0	0	Heat
									<p>A 40 year old woman died of heat stroke in her New Orleans apartment as high temperatures were near 100 degrees for the second day in a row. F40P.</p>
Orleans Parish	31	AFTN			2	0	0	0	Heat
									<p>Stifling heat claimed two more elderly New Orleans victims. A 77 year old woman was found dead in her apartment; an 84 year old man passed away outside of his home. F77P, M840.</p>
St. James Parish	31	AFTN			1	0	0	0	Heat
									<p>A 68 year old woman collapsed in her kitchen and died from a heat stroke in Lusher. F68P.</p>
17 MAINE									
Kennebec County	18	1415EST			0	0	5	0	Severe Thunderstorm
									<p>In Winthrop, winds from a severe thunderstorm toppled trees which, in turn, tore down utility lines, blocked roads, and crushed 3 cars. In Monmouth, trees were blown down during this storm. Maranacook Lake also sustained damage from the strong winds during this storm, as the winds knocked a boathouse off its piers and toppled many large trees. A boathouse and a cottage also were damaged by the fallen trees.</p>
Penobscot County	18	1430EST			0	0	3	0	Hail (1.00)
									<p>Plymouth had one inch diameter hail fall during a severe thunderstorm.</p>

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					KILLED	INJURED	PROPERTY	CROPS	
MAINE									
Penobscot County	18	1430EST		0	0	3	C	Hail (1.00)	
								Kenduskeag had one inch diameter hail fall during a severe thunderstorm.	
Penobscot County	18	1510EST		0	0	3	C	Hail (0.75 to 1.00)	
								Dixmont reported 3/4 to one inch diameter hail fell during a severe thunderstorm.	
Waldo County	18	1610EST		0	0	4	C	Hail (1.50)	
								Troy had one and one half inch diameter hail fall during a severe thunderstorm.	
Waldo County	18	1535EST		0	0	5	C	Severe Thunderstorm	
								Liberty reported a severe thunderstorm which produced 1 1/2 inch diameter hail, and winds that blew down trees.	
Knox County	18	1545EST		0	0	3	C	Hail (0.75)	
								Appleton had 3/4 inch diameter hail fall during a severe thunderstorm.	
Lincoln County	18	1703EST		0	0	3	0	Severe Thunderstorm	
								Jefferson recorded 60 mph wind gusts during a severe thunderstorm.	
Cumberland County	18	1815EST		0	0	5	0	Severe Thunderstorm	
								Gorham, North Gorham, and West Gorham reported wind gusts in excess of 60 mph during a severe thunderstorm that blew trees down which, in turn, tore down powerlines and blocked roads.	
York County	18	1830EST		0	0	4	0	Severe Thunderstorm	
								Buxton and Bar Mills reported a severe thunderstorm which produced one inch diameter hail, and winds that blew down trees.	
York County	18	2000EST		0	0	4	0	Lightning	
								Lightning struck the tower at the fire department in Wells, interrupting public safety communications for about 12 hours. The bolt also knocked out power to parts of Wells and Kennebunkport for a short time.	
York County	18	2200EST		0	1	3	0	Lightning	
								A lightning bolt struck the police station in Wells and hurled the dispatcher on duty across the room, knocking him unconscious. He was treated and later released from the hospital. The bolt cut off the power and telephone service for a short period. The only visible damage was a burn mark on top of the table at which the dispatcher sat.	
Somerset County	26	1400EST		0	2	5		Lightning	
								The landmark town church on Route 151 in Brighton was severely damaged by lightning. Also, two women who were directly across the street were momentarily stunned by the bolt and were left with a bright red spot on their legs, and they ached for a few days after. The steeple was severely torn apart and there was a three foot hole straight through the roof. Plaster was torn from various walls, and windows were blown out. The bolt apparently exited the landmark through the lower corner of the building where there was a hole and large crack in the granite at the base of the building. Boards and building parts were hurled onto the highway and into a yard across the street.	
Somerset County	26	1605EST		0	0	3	0	Lightning	
								In Skowhegan, a house was struck by lightning with little or no apparent damage.	
Kennebec County	26	1645EST		0	0	5	0	Thunderstorm	
								Waterville reported 3.50 inches of rain fell during a thunderstorm that washed out part of a road and flooded streets due to clogged sewers. A house and barn on Great Pond in Belgrade were struck by lightning, with minor damage reported. Lightning struck a North Belgrade home, damaging several electronic appliances. A year-round residence on Maranacook Lake in Oakland was struck by lightning, causing a fire in the second story. Unofficial reports from two Oakland sites reported around 5 inches of rain fell during the thunderstorm.	
Oxford County	26	Evening		0	0	5	0	Lightning	
								The combination of lightning strikes on Spruce Mountain in West Paris, which severely damaged a microwave tower and another on Streaked Mountain in Buckfield, knocked out the law enforcement's prime radio frequency for the Oxford Hills area over the weekend.	
Hancock County	26	Evening		0	0	4	0	Thunderstorm	
								In Ellsworth, 4 inches of rain fell in a 2 hour period Saturday evening, flooding city storm drains and causing the collapse of a foundation wall at an Ellsworth residence. The waters also washed away the lawn and shrubs and left the front porch and walkway hanging. The damage to the foundation alone was \$15,000.	
18 MARYLAND and D.C.									
Charles and St. Marys Counties	09	1030EST and 1540EST		0	0	6	?	Thunderstorm wind	
								A pair of severe thunderstorms--the first producing winds in excess of 60 mph, the second over 80 mph--swept east across southern Charles into northern St. Marys County. Numerous mature trees were uprooted or snapped off. The downed trees caused prolonged power outages and damaged adjacent structures. Thirty-three barns were knocked down and the wind damaged fourteen others. The damage was concentrated in a one-quarter to one-half mile wide path. Large hail was reported near Ripley.	
Somerset County	13	1630EST		1	0	0	0	Lightning	
								A 24 year old Salisbury woman died of injuries sustained when she was struck by lightning while crabbing from a bridge. F240	
Prince Georges County	16	1815EST		0	1	6	?	Thunderstorm wind, Hail	
								A microburst packing winds of 80 to 100 mph struck the Cedarville Mobile Home Park in the Brandywine area. Sixteen of the 264 homes were crushed or severely damaged and 9 destroyed by falling trees. Others were pocked by shattered windows and debris. The heavy rain which followed added to the damage. Most of the destruction occurred over an area 200 to 300 yards wide and about 3 miles long. Golf ball size hail covered the ground prior to the wind damage. Tree damage occurred over a wide area adjacent to the mobile home park. One person was injured at a nearby campsite.	
Garrett County	17	1430EST		0	0	?	?	Hail	
								Three-quarter inch hail was reported from an afternoon storm.	
Statewide		Spring		0	0	0	8	Drought	
								The driest Spring on record led to an extreme drought and catastrophic crop loss. Twenty-one counties were declared disaster areas. Crop losses are expected to approach 100 million dollars. Carroll and Caroline Counties each reported losses of 12 million dollars or more. The worst drought in 100 years will reduce crop production statewide by 50 percent. The eastern shore counties of Somerset and Worcester were the driest, having received less than half their normal rainfall in the first six months of 1986.	
19 MASSACHUSETTS									
Berkshire, Franklin, and Hampshire Counties	29	1400-2000EST		0	1	6	5	Flash Flood, Lightning, Hail (0.75), and Thunderstorm Wind	
								Severe thunderstorms brought very heavy rains of generally three to six inches in a few hours, causing severe urban and street flooding and washouts. Many lightning strikes to homes and businesses were reported. Three-quarter inch diameter hail fell in a few locations. An Ashfield firefighter was slightly injured by a bolt of lightning. A section of Route 116 between Conway and Deerfield was undermined by the raging Mill River. Eighteen families were evacuated in Conway when a dam threatened to give way. Area crops, especially tobacco, suffered losses from the flooding.	
Hampshire County, Cummington and Worthington	29	1600-1800EST		1	0	6	?	Flash Flood	
								Very slow-moving, severe thunderstorms produced a cloudburst rainfall of between 4 and 8 inches in two hours, resulting in the loss of one life and millions of dollars in damage to roads. A man attempting to recover some lumber from flooding of Bronson's Brook near Route 143 in Worthington became a drowning victim. Many washouts occurred, closing a number of roads and highways. The road damage was especially severe in Cummington. Flash flood, M340	
Northern Worcester and Northern Middlesex Counties	29	1600-2100EST		0	0	5	0	Lightning, Heavy Rain, and Flooding	
								Very heavy thunderstorms moved through the area with a number of damaging lightning strikes including one in Winchendon where a school suffered \$9,000 in damage. A lightning-caused fire in Lunenburg partially destroyed a storage building. In Townsend, the heavy rain caused flash flooding of Mason Brook which heavily damaged a 40-foot long concrete bridge on Route 124.	

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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		
20 MICHIGAN										
Southern Dickinson and Northern Menominee Counties	04	1948EST			0	0	0			Thunderstorm
Faithorn to Nadeau, Dickinson and Menominee Counties	04	2020EST	16.3	650	0	12	6			Tornado (F3)
Spalding, Menominee County	04	2020EST			0	0	0			Hail (1.50)
		Center of severe thunderstorm moved east along US 2, causing flash flooding, and minor wind and lightning damage. Tornado at south edge of storm moved just south of state line before entering Michigan 1 mile west of Faithorn. It then intensified and reached its maximum intensity (F3) just north of Nadeau. Liftoff occurred 4.5 miles east-northeast of Nadeau. Intensity elsewhere in Michigan averaged F2. 5 persons were hospitalized, 4 were in a garage, 1 in a mobile home. 7 others were slightly injured. 7 houses, 20 other buildings, 1 mobile home, and 2 vehicles were destroyed. The forward speed was 50 mph.								
	04	evening			2	0	4			Lightning
Merritt, Missaukee County		A house was destroyed by fire. Two children died. FLOP, FOSP								
	04	2245EST			0	0	0			Hail (1.00)
Rusley, Alger County		Wind damaged trees in the vicinity.								
	08	1815EST			0	1	0			Lightning
Redford, Wayne County		A woman was slightly injured.								
Muskegon County	15	1855EST			0	0	4			Thunderstorm
Ottawa County	15	1915EST			0	0	4			Thunderstorm
Kent County	15	2005EST			0	1	3			Thunderstorm
Allegan County	15	2008EST			0	0	3			Thunderstorm
Ionia County	15	2015EST			0	3	3			Thunderstorm
Near Fenville, Allegan County	15	2023EST			0	0	4			Thunderstorm
Near Kalamazoo, Kalamazoo County	15	2030EST			0	1	0			Lightning
Grand Rapids, Kent County	15	2032EST			0	0	0			Wind (54)
Orangeville to Albion, Barry and Calhoun Counties	15	2038EST	42.5	440	0	0	5		?	Tornado (F2)
Ingham County	15	2100EST			0	0	2			Thunderstorm
		10 houses were damaged by lightning and wind. Trees and tents were blown down. Streets and roads were blocked by fallen trees. A docked boat was sunk at Holland. Marinas and the lakeshore road were flooded. A three-car accident on the flooded road injured 6 persons. A microburst in the east-central part of Kent County snapped off trees along a path 1 mile long and 200 yards wide. North of Lowell, a tree fell on a moving car, injuring the driver. Funnel clouds were reported at Walker, Grand Rapids, and Lowell. A woman was injured by lightning through a telephone near Fenville. A tree fell on a moving car in Ionia, injuring 2 occupants. Another tree fell on a car and injured 1 occupant in Muir. A funnel cloud first seen near Wayland touched down 5 miles northeast of Orangeville and moved in a continuous, sharp-edged path 9 miles southeast, 3 horses were killed in the collapse of a barn, a car was blown off the road, a mobile home was turned over, a travel trailer was demolished, and many tree tops sliced off. Farther southeast, the path became intermittent, and damage was more straightline. Trees were down across most roads. In an oval-shaped area 1.5x3 miles elongated along the direction of movement, centered 4 miles northeast of Marshall, an apparent downburst laid trees and crops along a diverging pattern. From that point a path of more definite tornadic damage extended into the northeast part of Albion where a building was unroofed and trees 2 feet in diameter were felled. A woman inside a house was slightly injured by lightning near Kalamazoo. Large trees were blown down in Mason and Holt, and vehicles were blown around in Holt.								
Lenawee County: Near Onsted	15	2223EST	0.2	15	0	0	3			Tornado (F0)
Cambridge Junction	15	2225EST			0	0	0			Wind (56)
Washtenaw County	15	2230EST			0	0	3			Thunderstorm
		A small tornado touched down briefly on the north side of Lake Erin. Several trees and a steel building were blown down. 3 vans and a truck were damaged on M52. Fires set by lightning damaged buildings in Saline and near Ann Arbor. Trees were blown down in Chelsea and Whitmore Lake.								
Berrien County, 5 miles north of Niles	16	0015EST			0	0	3		?	Thunderstorm
		Trees were uprooted and a barn partially destroyed. Cornfields were flattened.								
MICHIGAN										
Delta County, Ensign-Rapid River	18	1310EST			0	0	0			Hail (1.75)
Menominee County: Bark River	18	1430EST			0	0	0			Hail (0.75)
Carnee	18	1445EST			0	0	0			Hail (0.75)
Menominee County	18	1530EST			0	0	2			Thunderstorm
Powers	18	1536EST			0	0	0			Hail (0.75)
		A flash flood near Menominee caused 150 campers to be evacuated; several boats broke from their moorings and capsized. Trees were blown down and 3 houses were damaged by wind at Faithorn.								
Huron County	18	1800EST			0	0	4			Thunderstorm
Sanilac County	18	1830EST			0	0	3			Thunderstorm
		About 40 houses were slightly damaged in northern Huron County, one unroofed, and a mobile home demolished. The report of a funnel cloud near Sand Point could not be confirmed. Trees were blown down in Brown City, Lexington and Port Sanilac.								
Lapeer County, Inlay City	18	1930EST			0	1	0			Wind
		A man was injured when a tent collapsed.								
Flint, Genesee County	18	2000EST			0	0	0			Funnel Cloud
Genesee County	18	2015EST			0	0	3			Thunderstorm
Near Dvid, Shiawassee County	18	2045EST			0	0	0			Funnel Cloud
		Trees were blown down in several areas around Flint. Reports of funnel clouds at Montrose, Clio and New Lothrop could not be confirmed.								
Roscommon County, 6 miles northwest of Houghton Lake	19	1715EST			0	0	0			Hail (0.75)
		Trees were blown down in the vicinity.								
Allegan County, Allegan Airport, Allegan County	19	2035EST			0	0	3			Thunderstorm
	19	2051EST			0	0	0			Wind (53)
		Many trees were blown down, resulting in a major power outage.								
Huron County, Ubyly	19	2130EST			0	1	0			Lightning
		A boy was injured.								
Southern Lake Huron	19	2218EST			0	2	2			Lightning
		2 persons were slightly injured, 2 boats damaged in the Port Huron to Mackinac sail race.								
Lapeer County	19	2345EST	2.3	40	0	0	3			Tornado (F1)
		A weak tornado touched down 2 miles southwest of Lum and moved to 3 miles northeast of Attica. Trees up to 2.5 feet in diameter were uprooted and twisted and windows exploded; there was a roaring sound. A girl picked up and carried through the air was not injured. Two persons were injured later when their car hit a tree that had fallen across a road.								
Dickinson County, 3 miles west of Iron Mountain	24	1630EST			0	0	0			Funnel Cloud
		Trees in the vicinity were struck by lightning. Some local roads were flooded.								
Northwest Delta County	24	1745EST			0	0	3			Thunderstorm
		An acre of trees were blown down near Cornell, apparently by a downburst. A house was damaged by a falling tree between Escanaba and Gladstone.								
Lake Michigan at Grand Haven	24	2100EST			1	0	0			Wind, waves
		A woman swimmer drowned when the wind raised waves.								
Clare County, 4 miles west of Harrison	25	1520EST	0.1	15	0	0	0			Tornado (F0)
		Sheriff's deputy saw funnel touch down briefly in a remote wooded area, and uproot several trees. A funnel aloft was seen 5 miles farther east.								
Jackson County	25	1620EST			0	0	2			Thunderstorm
Washtenaw County	25	1645EST			0	0	3			Thunderstorm
Lenawee County	25	1649EST			0	0	3			Thunderstorm
Monroe County	25	1743EST			0	0	4			Thunderstorm
		Many trees were blown down and minor structural damage occurred in the Brooklyn-Manchester-Iscuaseh area. 9 trees, 3 barns, and a tool shed were destroyed and a house damaged near Maybee.								

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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	
MICHIGAN									
Genesee County, Rankin to Grand Blanc	25	1805EST	5.7	75	0	1	4		Tornado (F1)
									The funnel aloft was seen 1 mile west of the touchdown. A pole barn was destroyed and there was other minor damage at the first road crossing. Witnesses here saw the funnel and heard a roaring noise. The path broadened before liftoff. Witnesses reported up to 3 funnels, 6 cars were damaged (windows exploded) and a man was injured by a wind-blown awning near the end of the track.
Wayne County, South of Detroit	25	1935EST			0	0	0		Funnel Cloud
									A "wall cloud" was observed over Lincoln Park. Radar showed a hook echo at that location. Shortly later, a "ropelike funnel" was reported over the Detroit River. The funnel did not touch down within the United States, but extensive structural damage was reported at LaSalle, Ontario.
21 MINNESOTA									
Polk Co.									
3NW Crookston	03	2033CST			0	0	0	0	Funnel
Wilkin Co.									
4E Wolverton	03	2242CST			0	0	0	0	Thunderstorm Wind (53)
Ottertail Co.									
2N Perham	03	2344CST			0	0	5	0	Thunderstorm Wind
Cass Co.									
Walker	04	0000CST			0	0	4	0	Thunderstorm Wind (52)
Wadena Co.									
Wadena, Verndale, and Aldrich	04	0005CST			0	0	4	0	Thunderstorm Wind
Todd Co.									
Staples	04	0015CST			0	0	4	0	Thunderstorm Wind
Cass Co.									
Gull Lake	04	0020CST			0	0	5	0	Thunderstorm Wind
Crow Wing Co.									
Emily	04	0045CST			0	0	3	0	Thunderstorm Wind
Morrison Co.									
Randall	04	0050CST			0	0	4	0	Thunderstorm Wind
10N Hillman	04	0105CST			0	0	4	0	Thunderstorm Wind
Carlton Co.									
Moose Lake	04	0158CST			0	0	0	0	Thunderstorm Wind
									Thunderstorms entered western Minnesota just before midnight from North Dakota and moved east through north-central Minnesota during the early morning hours. Wind damage occurred at many locations south of Highway 2 and generally north of St. Cloud. Numerous trees were knocked down resulting in damaged homes and vehicles at some locations. Power outages also resulted. The emergency communications lines went out at Brainerd. A portion of a roof was blown off a lodge at a resort two miles north of Perham. A police car was blown from a road near Verndale. Windows were broken at the sheriff's office in Walker.
Wright Co.									
5S St. Michael	05	1700CST			0	0	?	0	Thunderstorm Wind
									Thunderstorm winds blew a car off a road five miles south of St. Michael.
MINNESOTA									
Pine County									
6SW Pine City	05	1725CST	1	20	0	0	4	3	Tornado (F0)
									A tornado blew shingles from a barn roof and tossed farm equipment around a farm site six miles south of Pine City. Trees were knocked down at the farm site, and power poles were also knocked down a mile away. A path of damage was left behind through a corn field.
Renville Co.									
	08	1023CST			0	2	0	0	Lightning
									Two men were hospitalized after being hit by lightning in a farm field just south of Bechyn.
Blue Earth Co. Nankato									
	08	1310CST			0	0	0	0	Thunderstorm Wind (64)
									Thunderstorm winds of 75 miles per hour were recorded at a radio station in Nankato.
Watonwan Co. SE Butterfield									
	08	1311CST			0	0	0	0	Funnel
Lyon Co.									
	11	1730CST			0	0	0	6	Hail (1.0), Thunderstorm Wind (52)
									Hail up to one inch in diameter fell across Lyon County from Nordland to Lake Marshall Townships. Crop damage occurred over 30 farms. Winds up to 60 miles per hour accompanied these thunderstorms and knocked down trees on the west side of Marshall.
Meeker Co.									
Litchfield	12	1740CST			0	0	0	0	Hail (1.0)
Carver Co.									
Watertown	12	1830CST			0	0	0	0	Thunderstorm Wind (52)
									Thunderstorm winds downed trees in Watertown and rocked cars in northwest Carver County.
Hennepin Co.									
	12	1900CST			0	0	0	0	Thunderstorm Wind (52)
									The metro dome in Minneapolis recorded a wind gust of 60 miles per hour. Scattered tree damage and power outages occurred in Minneapolis and surrounding suburbs.
Ramsey Co.									
	12	1925CST			0	2	0	0	Thunderstorm Wind (52)
									Two teenagers were treated at hospitals for cuts and bruises after being hit by a blowing piece of plywood at the St. Paul Riverfest. Holmen Field in St. Paul recorded a gust to 60 miles per hour.
Dakota Co.									
	12	1930CST			0	0	0	0	Thunderstorm Wind
									Thunderstorm winds blew down trees which blocked roads and caused power outages in West St. Paul and Mendota Heights in northern Dakota County.
Wilkin Co.									
Tenney	15	0400CST			0	0	5	0	Thunderstorm Wind
									Two 10,000 bushel bins filled with grain were blown over by thunderstorm winds.
Renville Co.									
Fairfax	15	0900CST			0	0	3	0	Thunderstorm Wind
									Trees and power lines were knocked down in Fairfax.
Sibley Co.									
Gaylord	15	1000CST			0	0	?	0	Thunderstorm Wind
									Trees and power lines were knocked down in Gaylord.
Le Sueur Co.									
	15	1010CST			0	0	0	0	Funnel
									A funnel was observed over Lake Gorman in central LeSueur County.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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					KILLED	INJURED	PROPERTY	CROPS	
MINNESOTA									
Dakota Co.									
Lakeville	15	1050CST			0	1	0	0	Lightning
									A woman in Lakeville was hospitalized after being jolted by lightning that hit her home while she was on the telephone.
Goodhue Co. and Rice Co.	15	1100CST			0	0	4	0	Thunderstorm Wind
									Winds knocked down trees and downed power lines from Northfield and Cannon Falls across northern Goodhue County. Falling trees damaged some buildings and automobiles.
Goodhue Co.	15	1110CST			0	0	0	0	Funnel
									A funnel was observed east of Cannon Falls in Vasa Township.
Wabasha Co.									
125 Lake City	15	1150CST			0	1	4	0	Thunderstorm Wind
									Winds caused major damage to five buildings at a farm site 12 miles south of Lake City. At a nearby farm a woman was injured and hospitalized for cuts she received after a tree limb fell and shattered a window of a car.
Hennepin and Anoka Counties	18	1547CST	4	500	0	0	6	0	Tornado (F2)
									The tornado first touched down in Brooklyn Park near 85th Avenue North and Nobles Avenue. Movement was to the northeast at 12 miles per hour. The tornado crossed the Mississippi River around 1600CST into Coon Rapids. It skipped along the ground through Coon Rapids and Fridley where its direction of movement became variable and its speed slowed. Because the tornado was visible for almost 30 minutes and moved very slowly, it was observed by tens of thousands of people. Numerous photos and video-pictures were taken, some very close to the tornado. Several other funnels were generated by the parent thunderstorm. Damage to homes was mostly to roofs and garages, though many trees were destroyed in some areas. Damage was extensive at the Springbrook Nature Center on 85th Avenue between University and East River Road. A pickup truck and a Northwestern Bell vehicle were flipped over in Brooklyn Park. Seventeen properties in Brooklyn Park and 18 properties in Coon Rapids were damaged including some expensive homes under construction that were destroyed. Total property damage was \$650,000.
Mille Lacs Co.									
Princeton	18	1550CST			0	0	0	0	Hail (0.75)
Ramsey Co.									
White Bear Lake	18	1626CST			0	2	0	0	Lightning
									Two men were hospitalized after being struck by lightning while boating on White Bear Lake.
Washington Co.									
Hugo	18	1640CST			0	0	0	0	Hail (1.75)
									Golfball size hail fell in Hugo.
Anoka Co.									
Spring Lake Park	18	1705CST			0	0	0	0	Hail (1.75)
									Golfball size hail fell in Spring Lake Park.
Chippewa Co.									
15W Willmar	18	1758CST			0	0	0	0	Hail (2.0)
									Hail the size of chicken eggs fell 15 miles west of Willmar.
Hennepin Co.									
Rogers	19	0016CST			0	0	0	0	Thunderstorm Wind (S2)
									Winds of 60 miles per hour rocked cars in Rogers.
Anoka Co.	19	0045CST			0	0	0	0	Thunderstorm Wind
									Winds knocked down trees at Circle Pines and Lino Lakes.
MINNESOTA									
Washington Co.									
Forest Lake	19	0100CST			0	0	4	0	Thunderstorm Wind
									Winds overturned docks and boats on Forest Lake. Trees were also downed in the city of Forest Lake, causing power outages. A garage was flattened in the wind, and a second garage was structurally damaged.
Chisago Co.	19	0103CST			0	0	4	0	Thunderstorm Wind
									Thunderstorm winds up to 60 miles per hour knocked trees down and collapsed a barn in Chisago County. A flagpole blew down and commercial signs were ripped loose in Lindstrom.
St. Louis Co.									
Hibbing	24	0631CST			0	0	0	0	Thunderstorm Wind (S7)
									A gust to 66 miles per hour was recorded at the Hibbing Airport.
St. Louis Co.	24	0659CST			0	0	?	0	Thunderstorm Wind
									Numerous trees were knocked down in the vicinity of Lost Lake south of Biwabik. Other trees were downed at several sites across central St. Louis County between Virginia and Hoyt Lakes.
Chippewa Co.									
8E Montevideo	26	1700CST			0	0	0	0	Hail (1.75)
Gluek	26	1705CST			0	0	3	?	Hail (4.0)
2W Gluek	26	1705CST			0	0	0	0	Funnel
2½ NW Maynard	26	1711CST			0	0	0	0	Funnel
6E Montevideo	26	1715CST	1	30	0	0	0	0	Tornado (F1)
									Hail as large as baseballs damaged crops in a one mile wide path from two miles west to three miles east of Gluek. Hail around Gluek chopped off small branches and caused minor building damage including broken windows. The hail chipped exterior paint off some buildings. A tornado was photographed six miles east of Montevideo and was observed for approximately ten minutes as it moved from east to west near County Road 6 north of Highway 7. The tornado touched down in an open area and caused no significant damage.
Renville Co.									
Sacred Heart	26	1830CST			0	0	5	?	Thunderstorm Wind, Funnel
									Numerous trees were knocked down in and around Sacred Heart. Highway 212 was blocked to traffic due to downed trees and limbs. Winds blew over an empty grain bin that fell on and blocked a railroad line. Several other grain bins were also damaged. The wind snapped a power pole at a farm site just southeast of Sacred Heart and tore off roofing material. A funnel cloud was sighted approaching Sacred Heart from the northwest by local police at 1830CST.
Washington Co.	27	0400CST			0	0	3	0	Thunderstorm Wind
Cottage Grove									Winds knocked down trees in Cottage Grove that resulted in damage to homes. Siding was stripped from some buildings and traffic signs were twisted like corkscrews.
Dakota Co.									
Hastings	27	0400CST			0	0	5	0	Thunderstorm Wind
									Two barns were destroyed by winds just north of the Hastings city limits. Several sturdy trees were also downed and a car was overturned.
Dakota Co.									
Hastings	27	1430CST			0	0	0	0	Funnel
									A funnel was sighted just south of Hastings.
Fillmore and Mower Counties	27	1630CST			0	0	0	?	Hail (1.25)
									Hail up to 1.25 inches in diameter fell from the Racine area in northeast Mower County to just north of Spring Valley in western Fillmore County.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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					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

Becker Co. SNW Calloway	27	1800CST			0	0	0	0	Funnel
Polk Co. East Grand Forks	27	1840CST			0	0	0	0	Funnel
A funnel was sighted just northeast of East Grand Forks and hovered in the sky for 5 to 10 minutes.									
Polk Co. Mallory	27	1845CST	0.2	10	0	0	0	0	Tornado (F0)
A tornado touched down briefly in an open area near Mallory.									
Nobles, Lincoln, Pipestone and Murray Counties	28	1600CST			0	0	6	7	Hail (5.0)
Hail fell through the western sections of Lincoln County from Hendricks through Lake Benton then into Pipestone County. The north and southeast sections of Pipestone County were hit by hail, with the western edge of damage one mile west of Edgerton. Hail also pounded western Murray County and from northwest into central Nobles County. Baseball size hail was common across these areas, and some hail was the size of grapefruit. Hail 13 inches in circumference fell south of Lake Benton along the Pipestone County line. Hail 11 inches in circumference fell at Chandler. In Pipestone County, the sound of hail striking the ground from a distance was described as a continual roar and in Murray County, like the roar of low-flying jets. Crop damage was extensive with 100 percent loss in many areas. A number of livestock were severely injured. Hail penetrated roofs, smashed windows, and caused extensive damage to many vehicles and buildings.									
Lincoln Co. SS Lake Benton	28	1645CST			0	0	5	0	Thunderstorm wind
Thunderstorm winds moved a barn off its foundation and caved in the south end of the barn. At the same farm site, a cement block silo was knocked down, trees were flattened and a farm wagon was lifted 150 yards.									
Nobles Co. Rushmore	28	1750CST			0	0	4	0	Thunderstorm Wind
4SW Worthington	28	1800CST			0	0	4	0	Thunderstorm Wind
Bigelow	28	1805CST			0	0	4	0	Thunderstorm Wind
Thunderstorm winds caused damage at several sites from Rushmore to Bigelow. Four miles southwest of Worthington, wind destroyed a barn and granary, and wood debris pierced a motor home. The roof of a barn was torn off three miles northeast of Bigelow, and roofs were damaged and trees were downed in Bigelow.									
Traverse Co.	30	0030CST			0	0	4	0	Thunderstorm Wind
Heavy wind damage occurred along Lake Traverse. Many trees were knocked down, one of which demolished a trailer home.									
Big Stone Co. Clinton	30	0030CST			0	0	3	0	Thunderstorm Wind
Thunderstorm winds of 60 miles per hour snapped a power pole and downed trees.									
Lyon Co. Minneota	30	0030CST			0	0	3	?	Hail (1.75), Thunderstorm Wind
Marshall	30	0053CST			0	0	4	0	Hail (2.5), Thunderstorm Wind
Tracy	30	0130CST			0	0	0	0	Hail (1.0)
Scattered areas of property damage occurred through Lyon County due mainly to falling trees. Crop damage also occurred particularly to the southeast of Minneota.									

MINNESOTA

Brown Co.	30	0345CST			0	0	4	?	Thunderstorm Wind, Hail
Hail and wind caused crop damage from northeast of Sleepy Eye to just south of New Ulm. Extensive crop damage occurred in Home, Milford, Sigel, and Cottonwood Townships. There was damage to cars, shingles ripped off roofs, and windows broken around Searles. Considerable damage also occurred in Sleepy Eye and New Ulm where numerous trees were downed. Over one thousand sparrows were found dead in a yard in Sleepy Eye after the storm. Most of the damage in New Ulm was on the south side of town where cars were damaged and paint was stripped from the exterior of homes.									
Martin Co. Trimont	30	0400CST			0	0	4	0	Thunderstorm Wind
A barn collapsed and damaged two vehicles in strong winds near Trimont.									
Goodhue Co.	30	0401CST			0	0	0	0	Funnel
A funnel was sighted 15 miles southeast of Farmington by a pilot.									
Blue Earth Co. Mankato	30	0451CST			0	0	0	0	Thunderstorm Wind (55)
Madison Lake	30	0500CST			0	0	4	0	Thunderstorm Wind
Winds downed numerous trees around Madison Lake where mobile homes were damaged and a barn was destroyed.									
Olmsted Co. Rochester	30	0640CST			0	1	4	0	Thunderstorm Wind (59)
Thunderstorm winds blew down trees in and around Rochester. The heaviest damage was on the southwest side of the city where a man was hospitalized after winds estimated in excess of 80 miles per hour overturned his car. A wind of 68 miles per hour was measured in the city of Rochester.									
Wabasha Co. Plainview	30	0700CST			0	0	4	0	Thunderstorm Wind
Thunderstorm-generated winds snapped one large oak tree and uprooted another near Plainview. The oak trees were over two feet in diameter. The wind also demolished a machine shed at the same site.									
22 MISSISSIPPI									
Florence, Rankin County	11	1330CST			0	0	?	?	Thunderstorm Winds
Several trees were blown down by 60-70 mph winds in Florence.									
7 Miles Southeast of Brandon, Rankin Co.	11	1405CST			0	0	?	?	Thunderstorm Winds
High winds blew the tops out of trees 7 miles southeast of Brandon.									
Camp Shelby, Forrest County	15	1950CST			1	1	0	0	Lightning
The Tennessee Guard were involved in tactical training at Camp Shelby in the field. A thunderstorm moved in and lightning struck a man in the chest and killed him. His companion was also struck and injured, but survived. Tactical training continues regardless of the weather.									
Marks, Quitman Co.	20	1900CST			0	0	5	0	Thunderstorm Winds
High winds west of Marks blew the roof off a brick home. A barn was also destroyed. Numerous trees were downed. Several roofs were also blown off golf cart houses at a nearby country club.									
Gloster, Amite Co.	21	1230CST	1.0	50	0	0	5	0	Tornado (F1)
A tornado touched down in the center of Gloster, toppling trees and damaging homes. One business had a 40 by 80 foot roof ripped off the building and destroyed.									
Raleigh, Smith Co.	21	1315CST			0	0	?	?	Thunderstorm Winds
High winds blew down several trees near Raleigh. Also, the tin roof was blown off a chicken house.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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					KILLED	INJURED	PROPERTY	CROPS	
MISSISSIPPI									
Jackson, Hinds Co.	21	1545CST			0	0	4	0	Flash Flood
									Nearly 2 inches of rain fell in a 45 minute period in Jackson. Several creeks overflowed onto roadways. Flooding occurred in low-lying areas of Jackson. On a few streets, water was up to the hoods of cars.
Marks, Quitman Co.	23	Evening			1	0	0	0	Heat
									A woman was found dead in her home with the windows closed. Small fans were used for relief from the heat. F84H
Marks, Quitman Co.	24	Evening			1	0	0	0	Heat
									A man suffered a heat stroke in his home and died shortly thereafter in the hospital. The house was closed up with only a small fan used to provide relief from the heat. M88H
Greenville, Washington County	25	Afternoon			1	0	0	0	Heat
									A male died in his unairconditioned home. His body was not found till 2 days later. M79H
Delta	25	Afternoon			0	0	6	?	Heat
									One million catfish died due to a lack of oxygen in the ponds from the heat. The dead fish were valued at \$650,000. Around 500,000 broilers also died.
Greenville, Washington County	26	Afternoon			1	0	0	0	Heat
									An elderly woman died in her unairconditioned home from the heat in Leland. F100H
Osyka, Pike County	27	1600CST			1	1	0	0	Lightning
									Two brothers in Osyka were counting dairy cows as a thunderstorm approached. One of the brothers was leaning on a gate near a barn when lightning struck the gate. One brother was killed and the other injured. M220
West Point, Clay County	30	1500CST			1	0	0	0	Heat
									A 79 year old woman left her home early in the morning. She evidently suffered a heat-related illness and died that afternoon. Her body was not discovered till 2 days later. F790
Louisville, Winston County	30	1825CST			0	1	5	0	Thunderstorm Winds Hail (1:75)
									High winds in Louisville uprooted trees, downed power lines, and broke plate glass windows at several downtown businesses. Damages to property was estimated near 250,000 dollars. Golf ball size hail also occurred. One injury occurred when the occupant in a guard house was cut by flying glass.
Collinsville, Lauderdale County	30	1952CST			0	0	?	0	Thunderstorm Winds
									Numerous trees were blown down in the Collinsville area or about 11 miles northwest of Meridian.
5 Miles South of Collinsville, Lauderdale County	30	2018CST			0	0	?	?	Thunderstorm Winds
									High winds blew down trees on Highway 494 about 5 miles south of Collinsville.
Martin, Extreme Northwest Lauderdale County	30	2019CST			0	0	?	?	Thunderstorm Winds
									High winds blew down power lines at Martin in extreme northwest Lauderdale County.
Maben, Extreme Northwest Oktibbeha County	30	2025CST			0	0	6	?	Thunderstorm Winds
									Straight-line winds, maybe up to 100 miles an hour, caused considerable damage in Maben, or about 15 miles northwest of Starkville. Numerous trees uprooted, and power lines were damaged. Several homes were damaged by wind and fallen trees. An empty truck trailer was tossed on its side. Windows were blown out in some buildings.
4 Miles South of Union, Newton County	30	2030CST			0	0	?	?	Thunderstorm Winds
									High winds blew down trees on Highway 489, about 4 miles south of Union.
Philadelphia, Meshoba County	30	2100CST			0	0	?	?	Thunderstorm Winds
									High winds blew down trees near Philadelphia.
1 Mile West of Decatur, Newton Co.	30	2100CST			0	0	?	?	Thunderstorm Winds
									Trees and power lines were blown down 1 mile west of Decatur.
Grenada, Grenada Co.	31	0930CST			1	0	0	0	Heat
									A woman died from the heat in her unairconditioned home in Grenada. F59H
Greenville, Washington County	31	Afternoon			1	0	0	0	Heat
									A man died in his unairconditioned home from the heat. M85H
MISSISSIPPI									
Southaven, DeSoto County	31	1840CST			0	0	?	?	Thunderstorm Winds
									High winds blew down trees and damaged roofs in Southaven.
Horn Lake, Extreme Northwest DeSoto Co.	31	1845CST			0	0	?	?	Hail (1.75)
									Golf ball size hail fell at Horn Lake in extreme northwest DeSoto County.
West of Southaven, DeSoto County	31	1902CST			0	0	?	?	Thunderstorm Winds
									Trees and power lines were blown down west of Highway 51 on Horn Lake Road.
5 Miles West of Nesbit, DeSoto Co.	31	1955CST			0	0	0	0	Funnel Cloud
									A funnel cloud was sighted 5 miles west of Nesbit.
23 MISSOURI									
St. Charles County (near O'Fallon)	10	1600CST			1	2	4	0	Thunderstorm Wind
									Wind gusts to near 50 mph damaged a home which was under construction. The back of the house was struck by the wind at nearly a right angle. The top floor collapsed onto the first floor. A man and his two sons had taken cover in the building during the thunderstorm. A nine year old boy was killed and the father and a three year old were injured. This was about 5 miles south of O'Fallon.
Shelby County	10	1815CST			0	0	3	0	Thunderstorm Wind
									A roof was blown off a house at Clarence.
Marion County (around Hannibal)	10	1830-1900CST			0	0	4	0	Thunderstorm Wind
									Winds gusts to 50 knots at Hannibal EOC and there was scattered damage to trees and power lines in and around Hannibal.
Lewis County	10	2000CST			0	0	0	0	Heavy Rain
									Very heavy rain fell over the county and resulted in a mud slide on Highway 61 about 4 miles north of Canton.
St. Louis County	11	1430CST			0	0	4	0	Thunderstorm Wind
									Thunderstorm winds downed several trees and damaged sheds on the Tower Tee Golf Course in southwest St. Louis County near Heege and Watson Roads. Extremely heavy rain and small hail also fell in the same area.
St. Louis County	11	1600CST			0	0	0	0	Thunderstorm Wind
									Wind gusts to 52 knots at the Spirit of St. Louis Airport.
St. Louis County (St. Louis City)	11	1630CST			0	0	3	0	Thunderstorm Wind
									Thunderstorm winds damaged several trees in the west end of the City of St. Louis.
Scott County (Cape Girardeau Airport)	11	1848CST			0	0	?	?	Thunderstorm Wind
									Wind gusts to 53 knots at the Cape Girardeau Airport were reported.
Cedar County	12	1755CST			0	0	0	0	Hail (0.75)
									Hail 1/2 to 3/4 inch in diameter was reported at El Dorado Springs.
Pettis County (near Windsor)	12	1825CST			0	0	4	?	Thunderstorm Wind
									Thunderstorm winds destroyed a trailer 8 miles east-northeast of Windsor. The winds were estimated in excess of 70 mph.
Vernon County (near Nevada)	12	1830CST			0	0	3	0	Thunderstorm Wind
									Thunderstorm winds produced wind damage at Milo which is just south of Nevada.
Barton County	12	2023CST			0	0	3	0	Thunderstorm Wind
									Wind damage was reported 5 miles north of Golden City.
Howard County (Fayette)	14	1425CST			0	0	3	0	Thunderstorm Wind
									Trees were blown over in Fayette.
Howard County	14	1440CST			0	0	0	0	Hail (0.75)
									Hail to 3/4 inch diameter just north of Fayette was reported.
Howard County	14	1445CST			0	0	?	?	Flash Flooding
									Widespread street flooding was reported in Fayette.
Boone County	14	1445CST			0	0	0	0	Thunderstorm Wind
									Wind measured at 58 mph at Harrisburg was reported.
Boone County	14	1450CST			0	0	3	0	Thunderstorm Wind
									Large trees were blown over at Midway.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

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					KILLED	INJURED	PROPERTY	CROPS	
MISSOURI									
Boone County	14	1455-1515CST			0	0	4	0	Thunderstorm Wind
Winds to 65 to 70 mph occurred and trees were blown down around Columbia Regional Airport.									
Boone County	14	1502CST			0	0	0	0	Thunderstorm Wind
Wind measured at 56 knots at Columbia Regional Airport was reported.									
Boone County (Columbia)	14	1500-1520CST			0	0	5	3	Flash Flooding, Thunderstorm Wind
Widespread urban flash flooding reported in Columbia resulted in large trees and high water blocking several intersections. Cars stalled. Numerous reports of high winds and tree damage were received.									
Boone County	14	1535CST			0	0	3	0	Thunderstorm Wind
Wind knocked over trees east of Columbia.									
Callaway County	14	1540CST			0	0	3	0	Thunderstorm Wind
Wind damage was reported at Guthrie.									
Greene County (Springfield)	26	1318CST			0	0	0	0	Thunderstorm Wind
Wind gust of 52 knots measured at Springfield Airport or northwest of the city was reported.									
Greene County (Springfield)	26	1330-1400CST			0	0	5	0	Thunderstorm Wind
Wind damage across central and east-central parts of Springfield was reported. The damage was to trees, power lines, roofs, signs and billboards. The roof was blown off a barn in the west part of Springfield. Damage of near \$100,000 was reported at SMS University.									
Christian County	26	1430CST			0	0	3	0	Thunderstorm Wind, Hail (1.00)
Downed trees and hail to one inch diameter were reported at Ozark.									
Wright County	26	1435CST			0	0	3	0	Thunderstorm Wind
Winds to 60 mph and downed power lines were reported at Cedar Gap.									
Dent County	26	1515CST			0	0	4	0	Thunderstorm Wind
Large tree limbs were downed and power was out at Montauk State Park which is in the southern portions of the county. Some damage to cars was also reported.									
Scotland County	28	2322CST			0	0	6	0	Thunderstorm Wind
Winds were measured at 72 mph at KMEM in Memphis. Trees were uprooted and a number of sheds and buildings were damaged or destroyed. Damage was general throughout the county. Winds were estimated to 80 mph.									
Schuyler County	28	2330CST			0	0	4	4	Thunderstorm Wind
Trees, crops, and the Channel 3 tower were damaged near Lancaster.									
Adair County	28	2330CST			0	0	3	3	Thunderstorm Wind
Winds measured to 65 mph 7 miles northeast of Kirksville caused tree and crop damage.									
Clark County	28	2345CST			0	0	6	4	Thunderstorm Wind
Large trees were uprooted in and around Kahoka. power was out and the police had only car radio for communication. A mobile home was badly damaged and another overturned at Luray. Also, a board was driven through the side of a mobile home. Many trees were downed and winds were estimated near 100 mph at Luray. Many trees were also damaged in Alexandria and over the county in general.									
Knox County	28	2345CST			0	0	4	0	Thunderstorm Wind
Heavy tree damage was reported at Gorin. Some minor structural damage also was reported.									
Lewis County	29	0000-0020CST			0	0	5	4	Thunderstorm Wind
Many trees uprooted and were damaged across the county. An observer at Canton said winds were taking trees out of the ground at 0010CST. Trees also uprooted at LaGrange.									
Shelby County	29	0030CST			0	0	4	4	Thunderstorm Wind
Trees uprooted and were damaged across the county.									
Marion County (Palmyra)	29	0030CST			0	0	5	4	Thunderstorm Wind
Wind damaged trailers and uprooted trees. Local authorities thought it could be a tornado. Post storm analysis indicated that straight-line winds of near 100 mph produced the damage.									
Marion County	29	0045CST			0	0	6	4	Thunderstorm Wind
Hannibal EOC reported many trees downed in and around Hannibal. Winds were 80 to 100 mph and were reported to have blown motorcycles around.									
MISSOURI									
Ralls County	29	0050CST			0	0	4	3	Thunderstorm Wind
Winds to 80 mph downed trees across the county and in Saverton.									
Pike County	29	0100CST			0	0	4	3	Thunderstorm Wind
Trees and power lines were downed at Bowling Green.									
Lincoln County	29	0125CST			0	0	5	3	Thunderstorm Wind
Winds of at least 60 mph downed power lines and uprooted trees at Elsberry.									
Warren County	29	0150CST			0	0	4	0	Thunderstorm Wind
Winds of at least 60 mph produced tree damage and downed power lines in Warrenton.									
St. Charles County	29	0200CST			0	0	4	0	Thunderstorm Wind
Winds of 60 mph produced tree damage and downed trees in and around Wentzville. Power outages were reported over much of the county.									
St. Louis County	29	0230CST			0	0	3	0	Thunderstorm Wind
Winds of 60 mph produced tree damage near Spanish Lake in the north part of the county.									
Gasconade County	29	0300CST			0	0	4	0	Thunderstorm Wind
Winds to 60 mph produced damage to trees around Owensville. Some of the branches were up to 6 inches in diameter.									
24 MONTANA									
Carbon, Stillwater, Yellowstone, and Musselshell Counties	16	Afternoon			0	0	3	5	Hail (0.75), Thunderstorm Wind
3/4 inch diameter hail, heavy rain, and wind gusts of up to 65 mph caused extensive damage to wheat, cereal grains and sugar beets from Luther in Carbon County to the Bull Mountains in southwest Musselshell County. The heavy rain also washed approaches to some bridges and culverts.									
25 NEBRASKA									
Hitchcock County	02	1400CST			0	0	?	?	Thunderstorm Wind (52)
Wind gusts to 60 m.p.h. were reported just east of Stratton. No reported damage occurred.									
Hitchcock County	02	1456CST	0.1	10	0	0	1	1	Tornado (F0)
A small tornado touched down briefly 5 miles south of Trenton.									
Cheyenne County	03	1404CST			0	0	?	0	Thunderstorm Wind (52)
Wind gusted to 60 m.p.h. at Sidney. No reported damage occurred.									
Seward County	05	1610CST			0	0	2	2	Thunderstorm Wind (52)
Wind gusted to 60 m.p.h. 2 miles south of Seward, causing minor property and crop damage.									
Clay and Fillmore Counties	05	1635CST			0	0	0	5	Hail (1.5)
One and a half inch hail fell in a 7 mile long and 3 mile wide path from west of Sutton to southeast of Sutton, causing extensive crop damage.									
Clay County	05	1643CST	0.1	30	0	0	1	0	Tornado (F0)
A tornado touched down briefly just northeast of Sutton, with no apparent damage occurring.									
Saunders and Sarpy Counties	05	1658CST			0	0	0	0	Funnel Clouds
Funnel clouds were reported at Ashland and just west of Gretna.									
Douglas and Sarpy Counties	05	1720CST-1740CST			0	0	6	2	Thunderstorm Wind (63)
A roof was blown off a home in Omaha, and other shingle and awning damage was reported. Numerous trees and power lines were damaged in Omaha, with some trees falling on vehicles. A wind gust to 73 m.p.h. was measured at Omaha Eppley Airfield at 1735CST. Tree, power line and sign damage was reported in LaVista and Bellevue where winds were estimated 60 to 70 m.p.h.									
Sarpy County	05	1745CST			0	0	4	0	Lightning
Fire started by lightning heavily damaged a cabin near Bellevue.									
Otoe County	05	1900CST			0	0	4	2	Thunderstorm Wind
Wind gusts broke tree limbs and damaged power lines around Nebraska City.									

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NEBRASKA

Otoe and Nemaha Counties	05- Evening-07 Morning				0	0	2	3	Flood
	4.9 inches of rain fell at Syracuse, the evening of the 5th, resulting in minor flooding on the Little Nemaha River. A crest of 0.5 feet over flood stage resulted at Auburn, the morning of the 7th.								
Nemaha and Richardson Counties	07- Morning-09 Afternoon				0	0	2	4	Flood
	Upstream rainfall caused minor lowland flooding along the Missouri River, with a stage 1 foot over flood stage at Brownville and 3 feet over flood stage at Rulo.								
Nemaha County	08 2013CST				0	0	2	0	Thunderstorm Wind (52)
	Wind gusts to 60 m.p.h. were reported at Johnson.								
Harlan County	09 1215CST				0	0	3	0	Thunderstorm Wind
	Wind gusts broke tree limbs and broke windows east of Alma.								
Jefferson County	09 1930CST				0	0	5	2	Thunderstorm Wind (69)
	Wind gusts estimated to 80 m.p.h. damaged autos and campers and uprooted trees 1 mile southwest of Fairbury.								
Dawson County	09 2030CST				0	0	0	5	Thunderstorm Wind and Hail
	High winds and large hail to 1 1/2 inches did extensive damage to crops in the Cozad area.								
Buffalo County	09 2100CST				0	0	6	1	Thunderstorm Wind (87)
	Wind gusts to near 100 m.p.h. ripped 100 feet of roof off a motel on the south side of Kearney. Around 25 cars were damaged and 3 totaled by debris.								
Hall County	09 2210CST				0	0	4	0	Thunderstorm Wind
	Strong winds blew down trees and limbs, blocking a county road 4 miles west of Doniphan.								
Hall County	09 2214CST				0	1	4	0	Thunderstorm Wind
	A truck was blown over by wind gusts at the I-80 and Highway 281 intersection south of Grand Island. The driver sustained injuries. A truck was also blown into the median south of Alva.								
Hall County	09 2215CST				0	0	4	0	Thunderstorm Wind
	Strong winds toppled trees and broke large limbs at Camp Augustine south of Grand Island.								
Adams County	09 2252CST				0	0	3	0	Thunderstorm Wind (52)
	Winds estimated to 60 m.p.h. broke tree limbs on the east side of Hastings.								
Kearney County	10 0130CST				0	0	5	0	Lightning
	A 75 year old church in Minden was struck by lightning and burned to the ground.								
Keith County	10 1730CST				0	0	2	4	Hail
	Hail fell along a 5 mile strip south of I-80 and east of Highway 61, covering the ground and damaging crops.								
Dundy County	10 1815CST				0	0	6	4	Thunderstorm Wind (69)
	Eighty m.p.h. wind gusts in Benkelman blew over a semi-trailer, bent irrigation pipe and shattered the windows of four vehicles at the airport. A barn was blown off its foundation and outbuildings were damaged on the south edge of town. Numerous trees were down and crops damaged.								
Sarpy County	11 0005CST				0	0	2	0	Thunderstorm Wind
	Wind gusts broke a few tree limbs in Papillion.								
Lincoln County	11 1530CST				0	0	3	0	Thunderstorm Wind
	Wind gusts ripped half of a roof off a modular home 7 miles north of North Platte.								
Loup County	11 1700CST	0.3	30		0	0	4	0	Tornado (F1)
	A tornado touched down 10 miles northeast of Taylor, destroying outbuildings and trees on a farm.								
Lincoln County	11 1848CST				0	0	0	0	Funnel Cloud
	A funnel cloud was sighted 5 miles west of North Platte by National Weather Service personnel.								
Lincoln County	11 1905CST				0	0	?	?	Hail (1.0)
	One inch hail fell 3 miles west of North Platte. No reported damage occurred.								
Lincoln County	11 1919CST				0	0	0	3	Hail (1.5)
	Three-quarter inch hail fell on the west side of North Platte with 1/2 inch hail 6 miles southeast of North Platte. Some crop damage occurred.								
Nuckolls County	11 1930CST				0	0	4	3	Thunderstorm Wind
	Winds uprooted trees and damaged a few outbuildings west of Nelson.								
Lincoln County	11 1938CST				0	0	0	2	Hail (1.0)
	One inch hail fell at Fort McPherson National Cemetery south of Maxwell, with minor crop damage occurring.								

NEBRASKA

Hall County	11 2110CST	0.5	50		0	0	5	0	Tornado (F1)
	A tornado touched down in southwest Grand Island, damaging 12 houses along with trees and utility lines.								
Hall County	11 2110CST				0	0	6	4	Thunderstorm Wind (59) and Hail (1.5)
	Winds gusted to 68 m.p.h. at the Grand Island airport. The wind along with hail to 1 1/2 inches damaged roofs and broke windows in scattered areas around Grand Island. A pickup truck was blown over in Grand Island. Forty trees were destroyed on a golf course and crops flattened in the area.								
Hamilton County	11 2130CST				0	0	5	4	Thunderstorm Wind
	Wind gusts ripped the roof off a farm house north of Phillips. Extensive damage to trees and crops was reported southeast of Phillips. Strong winds also uprooted trees and broke limbs at Aurora.								
Thayer County	11 2326CST				0	0	4	0	Thunderstorm Wind
	Strong winds uprooted trees and damaged a couple of outbuildings in Hebron.								
Jefferson County	12 0000CST				0	0	4	0	Thunderstorm Wind
	Wind gusts destroyed 2 grain bins, a quonset hut and farm machinery 1 mile southeast of Daykin.								
Custer County	12 0125CST				0	0	?	?	Hail (1.0)
	One inch hail fell at Merna. No reported damage occurred.								
Sherman, Howard, Merrick, Hamilton, Polk, and York Counties	12 0300CST-0500CST				0	0	4	6	Thunderstorm Wind and Hail (1.5)
	A thunderstorm with strong winds and hail upwards to 1 1/2 inches travelled from near Arcadia to north of St. Paul and then into northern York County. Most damage was to crops, but large tree limbs were broken in both Central City and Hordville. Damage to crops was over one million dollars in Howard County alone.								
Pawnee County	12 0300CST				0	0	4	0	Thunderstorm Wind
	Wind gusts destroyed a machine shed and damaged grain bins and outbuildings 2 miles northeast of Pawnee City.								
Dodge County	13 1830CST				0	0	6	6	Hail (2.0)
	Hail to 2 inches broke windows, damaged roofs and dented vehicles around Hooper. The hail also heavily damaged crops around Hooper and areas to the east and south.								
Washington County	13 1844CST-1920CST				0	0	3	5	Hail (1.5)
	One and a half inch hail was reported 7 miles west of Herman at 1844CST and around Blair at 1920CST. Hail also damaged crops in the area 3 miles north of Arlington. Some minor property damage was reported.								
Washington County	13 1926CST				0	0	0	0	Funnel Clouds
	Funnel clouds were reported 5 miles northwest and 1 mile southeast of Blair.								
Dawes County	14 2045CST				0	0	3	0	Thunderstorm Wind (56)
	Wind gusts to 64 m.p.h. were recorded at the Chadron airport. Minor property damage occurred.								
Morrill County	15 1920CST				0	0	0	0	Funnel Cloud
	A funnel cloud was reported at Broadwater.								
Scottsbluff County	15 2035CST				0	0	0	0	Funnel Cloud
	A funnel cloud was sighted near Minatare.								
Logan County	17 1725CST				0	0	0	4	Hail
	Hail damaged crops 2 miles west of Stapleton.								
Rock County	18 1445CST				0	0	2	4	Hail (2.9)
	Hail to near 3 inches in diameter fell 6 miles north of Newport, damaging crops.								
Rock and Holt Counties	18 1550CST				0	0	2	3	Hail (1.75)
	One and three-quarter inch hail fell 15 miles northwest of Atkinson along the Rock-Holt county line.								
Holt County	18 1610CST				0	0	2	4	Hail (1.75)
	One and three-quarter inch hail fell 15 miles north of Atkinson. Some crop damage occurred.								
Holt County	18 1648CST				0	0	2	3	Hail (1.75)
	One and three-quarter inch hail was reported 9 miles north-north-east of O'Neill. Crops were damaged.								
Knox County	18 1729CST				0	0	2	3	Hail (1.75)
	One and three-quarter inch hail fell 3 miles west of Verdigre, damaging crops.								
Thomas County	18 2120CST				0	0	?	?	Hail (1.5)
	One and a half inch hail fell briefly at Thedford. No reported damage occurred.								
Cedar County	19 0200CST				0	0	3	0	Thunderstorm Wind
	Wind gusts downed trees and power lines at Coleridge.								

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					KILLED	INJURED	PROPERTY	CROPS	
NEBRASKA									
Dawes County	20	1730CST			0	0	5	4	Thunderstorm Wind (61) and Hail (1.5) Wind estimated to 70 m.p.h. and 1/2 inch hail struck Chadron, damaging roofs and windows. Area crops also suffered hail damage.
Lincoln County	24	1200CST			0	0	5	0	Lightning Fire started by lightning destroyed a house 5 miles southwest of North Platte.
Lincoln County	24	1200CST			0	0	?	?	Hail (0.75) Three-quarter inch hail fell 3 miles north of Hershey, causing no reported damage.
Valley County	24	1405CST			0	0	3	0	Thunderstorm Wind (52) Winds gusted to 60 m.p.h. 5 miles east of Comstock, causing minor property damage.
Valley County	24	1415CST			0	0	4	0	Thunderstorm Wind Strong winds downed tree limbs and caused power outages in Ord.
Hall County	24	1500CST	0.3	40	0	0	3	0	Tornado (F1) A tornado touched down 3 miles northwest of Grand Island, uprooting trees.
Hall County	24	1500CST			0	0	3	0	Thunderstorm Wind Winds blew down trees on Highway 281, 5 miles north of Grand Island. Wind gusts reached 55 m.p.h. at the airport.
Merrick County	24	1530CST			0	0	4	4	Thunderstorm Wind and Hail (1.5) High winds and 1/2 inch hail shredded crops and damaged trees around the Worms area. Windows were broken in a house and church in Worms.
Merrick County	24	1540CST			0	0	4	3	Thunderstorm Wind Winds downed tree limbs and power lines in Central City and Silver Creek.
Nance County	24	1550CST			0	0	4	3	Thunderstorm Wind Tree limbs were broken by high winds in Fullerton, as well as power lines. A power pole was toppled north of Genoa.
Platte County	24	1620CST			0	0	4	1	Thunderstorm Wind (65) Wind gusts of 50 to 75 m.p.h. were reported at Lindsay, with numerous trees downed.
Platte County	24	1620CST	0.1	20	0	0	5	3	Tornado (F1) A tornado touched down 2 1/2 miles west of Lindsay, destroying a barn and hog shed. Several cattle were killed.
Madison County	24	1645CST			0	0	5	2	Thunderstorm Wind Wind gusts blew several roofs off in Madison and blew down tents at the fair grounds. Many trees and power lines were downed. Trees were also blown down 5 miles south of Norfolk.
Stanton County	24	1655CST			0	0	3	0	Thunderstorm Wind Numerous trees were uprooted at Stanton.
Platte County	24	1657CST			0	0	3	0	Thunderstorm Wind Trees and power lines were downed in Creston.
Wayne County	24	1700CST			0	0	3	5	Thunderstorm Wind (69) and Hail (0.75) Wind gusts estimated 70 to 80 m.p.h. struck in the southwest part of the county and east of Wayne. Three-quarter inch hail with the winds damaged crops and property.
Madison County	24	1709CST			0	0	3	1	Thunderstorm Wind (68) Wind gusted to 78 m.p.h. at the Norfolk airport. Trees and power lines were damaged.
Lincoln County	24	1745CST			0	0	1	3	Hail (1.5) One and a half inch hail fell briefly 3 miles west of North Platte. Minor crop damage occurred.
Cass County	24	1755CST			0	0	1	2	Hail (1.0) One inch hail fell briefly 5 miles south of Plattsmouth.
Dixon County	24	1810CST			0	0	3	1	Thunderstorm Wind (52) Wind gusts estimated 50 to 60 m.p.h. were reported at Allen. Utility lines were damaged at Ponca.
Dixon County	24	1810CST			0	0	5	0	Lightning A fire started by lightning destroyed a barn just northeast of Dixon, killing around 100 pigs.
Hayes County	24	1900CST-2200CST			0	0	6	5	Thunderstorm Wind and Hail (1.75) One and a half inch hail and high winds destroyed crops, broke windows and windshields, and damaged siding and shingles of buildings across a 7 mile path from the northwest to southeast corner of the county. At 2045CST, Hayes Center reported 1 3/4 inch hail.
Scottsbluff County	24	1914CST			0	0	1	2	Hail (0.75) Three-quarter inch hail fell near Minatare.
NEBRASKA									
Red Willow County	24	2100CST			0	2	6	4	Thunderstorm Wind and Hail (2.5) Hail from 1/2 to 2 1/2 inches with strong winds occurred in a 5 mile wide path from the northwest to southeast corner. A McCook woman sustained injuries from a sign blown by wind at 2149CST. North of McCook, a woman in a mobile home was cut by flying debris. A mobile home in the area was blown off a foundation and had the roof taken off. Windows were broken and cars dented by hail around McCook. Crops also sustained damage.
Red Willow County	25	1800CST			0	0	2	5	Hail Hail damaged crops in a 12 mile long swath in the south part of the county.
Dawson County	26	2030CST			0	0	3	0	Thunderstorm Wind Wind gusts damaged tree limbs at Gothenburg.
Furnas County	26	2200CST			0	0	5	4	Flash Flood 5.5 inches of rain northeast of Arapahoe damaged roads and crops and killed livestock.
Kearney County	26	2322CST			0	0	2	1	Thunderstorm Wind (52) Winds gusted to 60 m.p.h. at Minden.
Franklin County	27	0530CST			0	0	4	0	Hail Hail damaged crops near Hildreth.
Antelope County	27	1900CST			0	0	0	3	Hail (1.0) One inch hail fell 2 miles east of Clearwater, damaging crops.
Madison County	27	2009CST			0	0	0	2	Hail (0.75) Three-quarter inch hail fell 2 miles south of Battle Creek.
Dixon and Dakota Counties	28	1730CST-1910CST	55	75	0	1	7	6	Tornado (F3) A tornado touched down at Maskell and moved southeast passing between Martinsburg and Ponca and then between Hubbard and Jackson before crossing the Missouri River 6 miles south of the Sioux City airport. The storm continued southeast and finally lifted just southeast of Sloan in northern Monona County, Iowa. The storm lifted around 2 times for short intervals along its path. The following damage was reported in Nebraska: in Dixon County, 8 farmsteads were damaged including 7 farm homes, 33 farm buildings and over 15 pieces of equipment including cars and trucks; in Dakota County, 9 farmsteads were damaged including 1 farm home, 11 farm buildings and numerous pieces of equipment. One farmer was injured just northeast of Hubbard when he was hit in the head by flying debris. Many livestock were killed and thousands of acres of crops suffered damage. Extensive damage occurred to utility lines, trees and fences.
Dixon County	28	1750CST			0	0	3	3	Hail (1.75) One and three-quarter inch hail fell at Ponca, damaging roofs and crops.
Dakota County	28	1830CST			0	0	4	3	Hail (1.5) One and a half inch hail fell at Dakota City, with some damage to roofs and crops having occurred.
Cedar County	28	1850CST	0.1	20	0	0	2	1	Tornado (F8) A tornado touched down briefly north of Wynot near the Missouri River.
Dakota County	28	1955CST-2011CST			0	0	4	3	Hail (1.75) Hail from 3/4 to 1 and 3/4 inches fell at South Sioux City and areas to the south, damaging crops and roofs.
Douglas County	28	2200CST			0	0	3	0	Thunderstorm Wind Wind gusts broke a few tree limbs and caused power outages in Omaha.
Holt County	29	1745CST	5	70	0	0	3	4	Tornado (F1) A tornado touched down intermittently from 1 mile east to 4 miles northeast of Page, then northwest 1 mile before lifting. 35 acres of corn were destroyed northeast of Page. Other damage to trees, utilities and fences occurred.
Antelope County	29	1825CST	3	20	0	0	4	3	Tornado (F1) Tornado touched down on an intermittent path from 6 miles northwest to 4 miles north of Orchard. Damage to grain bins occurred north of Orchard. Damage was sustained by utility lines, trees, fences and crops as well.
Antelope County	29	1837CST			0	0	2	4	Hail (3.8) Hail to near 4 inches in diameter fell 8 miles north and 3 miles east of Neligh, heavily damaging crops.
Pierce County	29	1927CST-1954CST			0	0	0	0	Funnel Clouds Several funnel clouds were reported by trained spotters from 10 miles northwest of Norfolk to 1 mile north of Hadar.
Madison County	29	1954CST-2005CST			0	0	0	0	Funnel Clouds Several funnel clouds were sighted by spotters from 8 miles northwest of Norfolk to 2 miles west of Battle Creek.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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		
NEBRASKA														
Antelope County	30	0035CST			0	0	0	3	Hail (1.75)	One and three-quarter inch hail was reported 10 miles north of Neligh. Crops sustained damage.				
Cherry County	30	1940CST			0	0	?	?	Hail (1.0)	One inch hail fell just south of Merriman. No reported damage occurred.				
Cherry County	30	2000CST			0	0	3	4	Hail (1.0)	One inch hail in and around Valentine and around Lakeview damaged crops and gardens, stripped trees and damaged roofs.				
Dawes County	30	2143CST			0	0	?	?	Hail (0.75)	Three-quarter inch hail fell at Chadron. No damage was reported.				
McPherson County	31	0600CST-0800CST			0	0	6	6	Thunderstorm Wind (69) and Hail (4.0)	One and three-quarter inch to 4 inch hail with winds estimated 70 to 80 m.p.h. blasted a 3 mile wide strip from the northwest to southeast corner of the county. 70,000 acres of rangeland were severely damaged. The hail and wind broke out windows on the west side of numerous buildings, and roofs and siding were severely damaged. The town of Tryon was hard hit. Trees were stripped of leaves and limbs. Six to twelve inches of hail covered the ground around Tryon.				
Lincoln County	31	0700CST-0830CST			0	0	5	5	Thunderstorm Wind and Hail	Strong damaging winds and hail moved from the north-central to southeast part of Lincoln County. Damage was sustained to buildings, homes, farm equipment and crops. At 0830CST, the winds destroyed a shed, damaged a home and broke windows on the east side of North Platte.				
Dawson County	31	0815CST-1000CST			0	0	6	6	Thunderstorm Wind (87) and Hail	Strong damaging winds and hail moved from 7 miles north of Gothenburg to 1 mile north of Lexington to Overton. Crop damage was about 3 miles wide and continuous along this path. Buildings and vehicles also were damaged. Wind gusts were estimated to around 100 m.p.h. 8 miles north of Cozad. Hail drifted to 4 inches deep and remained on the ground during the afternoon.				
Dawson County	31	0930CST	0.2	30	0	0	1	1	Tornado (F8)	A tornado touched down briefly just east of Lexington, causing no apparent damage.				
Chase County	31	1715CST			0	0	6	5	Thunderstorm Wind (52) and Hail	Hail and wind gusts to 60 m.p.h. were reported around and to the north of Nauneta. Crops were shredded, trees stripped, windows broken and farm dwellings damaged along a 6 to 8 mile swath.				
Perkins County	31	1728CST			0	0	?	?	Hail (0.75)	Three-quarter inch hail fell 7 miles south of Grant. No damage was reported.				
Kimball County	31	1945CST			0	0	0	0	Funnel Cloud	A funnel cloud was reported at Bushnell.				
Kimball County	31	2023CST	0.2	40	0	0	1	1	Tornado (F8)	A tornado touched down briefly in an open area 7 miles south of Kimball.				
26 NEVADA														
All Nevada Counties NVZ001 through 007	4	0700PST-1800PST			0	0	5	0	High Wind	A strong cold front crossed the state with gusty winds reported during morning and afternoon at every Nevada reporting station. Peak winds exceeded 34 knots at every station. The strongest winds reported were 58 mph in the Carson Valley south of Reno. Approximately \$300,000 in damage occurred to roofs, metal buildings, mobile homes, trees, telephone and electric poles. Damage reports were restricted to the northern counties of Washoe, Humboldt, Lander, Eureka, and Elko.				
Clark County NVZ007	20	Noon PST			0	0	0	0	Heavy Rain	Torrential rains were reported with small hail in the northern sections of the city of Las Vegas. Street flooding to curb level was reported. Travelers were inconvenienced, but no damage was reported.				
Washoe, Storey, and Lyon Counties NVZ003	22	1700PST-2100PST			0	0	5	0	Flash Flood	Heavy thunderstorms spread up the Eastern Sierra slopes and adjacent valleys with heavy rains. Widespread street flooding was reported in Reno, Sparks, and Dayton. Roads in Washoe Valley were washed out and the Derby dam broke, releasing water that flooded several homes in New Washoe City with up to 6 inches of water and mud. Precipitation amounts were .79 inches at Reno Airport and 1.02 inches in Sparks. Damage due to washed-out roads and flooded homes was estimated at \$100,000.				
NEVADA														
Clark and Lincoln Counties NVZ007	23	1320PST-2045PST			0	0	0	0	Flash Flood	Heavy convective rain produced a flash flood closing US 93 north of Las Vegas. Widespread urban street flooding was reported in both Clark and Lincoln Counties. Precipitation amounts reported were 1.23 inches in two hours at Desert Rock and 1.0 inch in one hour at Sandy Valley. No significant damage was reported.				
Washoe County NVZ003	24	1600PST-1800PST			0	0	0	0	Heavy Rain	Heavy convective rain over West Reno produced widespread street flooding up to two feet deep. The heaviest precipitation occurred near Verdi where .75 inches in 15 minutes and 2.71 inches in one hour were reported. No significant damage was reported.				
Washoe and Storey Counties NVZ003	25	1400PST-1600PST			0	0	0	0	Thunderstorm	A strong thunderstorm produced heavy, small hail in Virginia City and over the western portions of Reno. In Virginia City, marble size hail 2 inches deep was reported. An hour later, another storm produced more heavy, small hail west of the Reno airport. A wind gust of 50mph was reported at the Carson City airport. No significant damage was reported.				
27 NEW HAMPSHIRE														
Strafford County	26	1635EST			0	0	4	0	Lightning	In East Rochester, lightning struck the steeple of the Grace Baptist Church, causing a small fire in the steeple and bell tower. The blaze was quickly extinguished and apparently caused minor damage.				
Sullivan County	26	1720EST			0	2	4	0	Severe Thunderstorm	In Claremont, winds from a severe thunderstorm tore off tree limbs that took down powerlines. Heavy downpours flooded some Claremont streets and flooded cellars on Tyler Street. There were also three lightning hits in Claremont, damaging the roof on St. Mary's Church and a chimney on an Elm Street house, and starting a small partition fire in a Factory Street home. In Cornish, late in the afternoon, a dune buggy flipped on Route 12-A during heavy rains, injuring its two male occupants.				
Carroll County	26	1730EST			0	0	4	0	Lightning	A lightning bolt started a fire in a Center Ossipee garage which produced much smoke and water damage to the contents of the garage.				
Merrimack County	26	Evening			0	0	3	0	Lightning	In Henniker, lightning struck the weather vane on the Congregational Church, starting a small fire in the belfrey and blowing out all the fuses. There was no structural damage.				
Cheshire County	28	Late Night			0	0	4	0	Thunderstorm	Thunderstorms produced heavy rains which dropped two inches on Surry Mountain Lake and four inches on Sullivan and Gilsum. Run-off washed out the shoulders on Routes 9 and 10 in Sullivan, Nelson and Gilsum. Otter Brook, in Keene, overflowed its banks, flooding Valley Road. Lightning knocked out transformers in Rindge and Spofford, leaving some 100 homes powerless. In Dublin, lightning struck a house, causing a chandelier to fall from the ceiling. In Harrisville, at 0145EST, lightning split a tree and also hit a house, leaving a 12 inch wide hole in a second story wall and doing extensive damage to the home's electrical system.				
Sullivan County	29	1345EST			0	0	4	0	Lightning	In Claremont, lightning struck the electrical service box outside on a two-apartment building, igniting material inside the wall. Fire burned the attic, a first floor livingroom, and a second floor bedroom.				

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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					KILLED	INJURED	PROPERTY	CROPS	
NEW HAMPSHIRE									
Cheshire County	29	1530EST			0	3	6	0	Thunderstorms
	<p>Slow-moving thunderstorms produced torrential downpours over some of the county between 1700 and 1930EST, with Otter Brook Dam reporting 2.23 inches of rainfall. Estimates of up to 4 inches of rain came from other sections of the county. This produced flooding and washouts of roads and ditches. Hardest hit was Sullivan with \$60,000 damage, and Alstead with \$20,000 damage to washed-out roads. Also, the Otter Brook Dam and Surry Mountain Lake recreation areas were closed indefinitely because of washed-out beaches and picnic areas. Lightning strikes caused much havoc across the county. At 1530EST, lightning struck a barn in Alstead and burned it to the ground. At 1700EST, lightning struck the midway at the Cheshire Fairgrounds and injured three males, one of which remained hospitalized overnight for observation. At 1718EST, another bolt hit a garage in East Swanzey, burning it to the ground and causing about \$50,000 damage. Between 1730 to 1930EST, lightning struck and burned a shed in Stoddard to the ground, and burned powerlines and knocked out transformers, leaving Fitzwilliams, Troy, Richmond, Keene, Hinsdale, Sullivan and Swanzey without power. In all, about 4,000 residences were powerless.</p>								
Hillsborough County	29	1600EST			0	0	6	0	Thunderstorms
	<p>Slow-moving thunderstorms caused torrential downpours of 4 to 6 inches over some of the county between 1700 to 2000EST. The Souhegan Valley towns of Brookline, Milford, Mason, Greenville, and Wilton were hardest hit by flooding and extensive damage to roads and bridges. Mason had every one of its roads affected by washouts and needs at least 25,000 cubic yards of fill to repair them. Several washouts were 200 to 400 feet long, 16 feet wide, and 4 to 5 feet deep. One 5 foot deep washout was in front of the Mason Fire Department. Road damage in Mason was estimated at \$1,200,000. Greenville, where road damage was estimated at \$100,000, had a 180 unit trailer park isolated when the entrance and exit roads were washed out, and 8 families were evacuated from Mill Street due to rising waters. Brookline lost two bridges, one estimated at \$430,000, with another all but lost. Plus, many town roads had washouts, with an estimated damage of \$251,500. One lost bridge stranded 70 families at a campground, which was also flooded when several beaver dams broke. Lake Potanipo, in Brookline, rose to heights never seen before, doing damage to private property. In Milford, damage to both public and private property was estimated at \$300,000. Most of the damage was to roads, where the heavy runoff damaged culverts and road shoulders, and one bridge sustained heavy damage. Wilton reported many roads had washouts, but with no estimate of damage. Antrim was another town with several washed-out roads. Lightning knocked out the Amherst Police Department's transmitter. About 7,000 county residences were without power due to 22 transformers and two poles that had to be replaced, and about 100 telephones were out of service in Brookline and Mason. In Brookline, some were without electricity and telephones for about 48 hours.</p>								
28 NEW JERSEY, Northern									
Passaic County	29	1500EST			0	0	0	0	Hail (1.75)
	<p>1 3/4 inch size hail fell as a severe thunderstorm passed over Clifton.</p>								
28 NEW JERSEY, Southern									
Ocean County	29	1303EST			0	0	?	0	Thunderstorm Wind
Ocean County	29	1305EST			0	0	?	0	Hail (0.75), Thunderstorm Wind
Ocean County	29	1320EST			0	0	?	0	Thunderstorm Wind
Ocean County	29	1625EST			0	0	?	0	Thunderstorm Wind
	<p>Thunderstorms over Ocean County dropped 3/4 inch diameter hail at Lavallette and produced high wind gusts in several locations. Wind gusts were estimated at 70 mph or higher in Dover at 2:03 PM EDT and in Lavallette at 2:05 PM EDT. Gusts were measured at 63 mph in Toms River at 2:20 PM EDT. In Brant Beach, the anemometer broke after reaching 74 mph at around 5:25 PM EDT.</p>								
29 NEW MEXICO									
Lea County	01	2105MST			0	0	?	?	Hail (0.75), Wind
	<p>The Lea County Civil Defense reported 3/4 inch diameter hail and straight-line winds estimated at 64 mph.</p>								
Lea County	01	2115MST	?	?	0	0	?	?	Tornado (F0), Funnels
	<p>A Hobbs radio station relayed civil defense reports of a tornado and funnels 1 to 5 miles west of Hobbs.</p>								
NEW MEXICO									
Lea County	02	1207MST			0	0	0	0	Funnel
	<p>The Hobbs Police Department reported funnel sightings near Hobbs.</p>								
Sanoval County	08	PM			0	1	0	0	Lightning
	<p>A 35-year old man was struck by lightning on the mesa top at Puye Cliffs near Los Alamos. His sister, trained in first aid and CPR, saved his life.</p>								
Bernalillo County	13	1330MST			0	2	0	0	Lightning
	<p>Lightning struck a male and female at Sandia Peak, 10,700 feet in elevation, just northeast of Albuquerque. The observation deck was crowded with Sunday afternoon viewers. It appeared that they were struck by the first cloud-to-ground lightning bolt of the day. They were holding on to the metal rail when struck.</p>								
Otero County	16	1900MST			0	0	4	0	High Winds, Heavy Rains
	<p>Heavy rains and thunderstorm winds damaged four businesses in Alamogordo.</p>								
San Juan County	19-20				0	0	4	0	Heavy Rains
	<p>Abnormally heavy rains flooded homes in west Farmington, and washed away a bridge in and damaged streets throughout Farmington.</p>								
30 NEW YORK, Coastal									
Nassau County	13	2030EST			0	6	0	0	Lightning
	<p>Lightning struck a tree at Mill River Park, Rockville Centre under which several persons were seeking shelter when it started to rain. A 6 year old boy was the most seriously hurt, but made a full recovery after two weeks in a hospital. The other injured were the boy's 35 year old mother, 7 year old brother, 23 year old woman, 40 year old man, and 65 year old man. The six victims were among several thousand gathered in the park to watch a fireworks display.</p>								
Westchester County	29	1315EST- 1330EST			0	0	0	0	Hail (1.75)
	<p>1 3/4 inch size hail fell as a severe thunderstorm passed over Scarsdale, Bronxville and North Yonkers in Westchester County.</p>								
Rockland, Westchester, Nassau, and Suffolk Counties	30	Afternoon			0	0	?	0	Flash Flood
	<p>Slow-moving and intense thunderstorms produced flash flooding as torrential rainfall lasted as long as two hours over some locations. Rockland, Westchester and Suffolk Counties all reported flooding from these slow-moving storms, but Nassau County and, in particular, the towns of Westbury and Garden City were hardest hit. Four to five feet of water covered hundreds of cars at a shopping center, and some office workers had to be rescued by rowboat.</p>								
30 NEW YORK, Central									
Cortland County	07	1600EST			0	0	5	2	Thunderstorm Wind
	<p>Winds in excess of 60 MPH (estimated) blew down trees and power lines in Cortland County, leaving 2500 homes without power.</p>								
Herkimer County	20	1400EST			0	0	7	4	Flash Flood
Oneida County	20	1430EST			0	0	5	0	Flash Flood
Herkimer County	20	1445EST			0	0	6	2	Flash Flood
	<p>Heavy rain over the Beaver Brook Basin produced a flash flood in Dodgeville. Local residents claim this to be the worst flood in recent history. Local industry was very hard hit and may have to lay off local workers. A second flash flood occurred along the West Canada Creek in Middleville which prompted closing Rt. 28 and Rt. 169 after flood waters washed away the intersection and 60 feet of retaining wall. In Oneida County, the village of Remsen was also flooded out by water from local streams and creeks.</p>								

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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					KILLED	INJURED	PROPERTY	CROPS	
NEW YORK, Central									
Franklin County	26	1050EST	1.0	150	0	0	5	3	Tornado (F1)
Hamilton County	26	1330EST			0	0	4	2	Thunderstorm
Herkimer County	26	1330EST			0	2	5	4	Flash Flood
Ulster County	26	1330EST	0.5	100	0	2	6	0	Tornado (F2)
Ulster County	26	1358EST			0	5	3	0	Rain
Albany County	26	1458EST			0	0	3	3	High Wind
Schenectady County	26	1515EST			0	0	4	0	Lightning
Schenectady County	26	1515EST			0	0	3	3	High Wind
Albany County	26	1515EST			0	0	3	0	High Wind
Albany County	26	1520EST			0	0	4	0	High Wind
Saratoga County	26	1615EST			0	1	4	0	Lightning
Washington County	26	1630EST			0	0	5	4	Lightning
Schenectady County	26	1945EST			0	0	0	5	Lightning
Ulster County	26	UNK			0	0	0	5	Lightning
Sullivan County	26	UNK			0	0	5	4	Flood
Dutchess County	26	UNK			0	4	5	0	Lightning
<p>Thunderstorm winds knocked over a tree which crashed onto a car on Rt. 12B. Albany City Fire Department also reported one (1) 15 ton engine was blown sideways by strong wind gusts. Heavy rain also filled local creeks beyond capacity, resulting in minor overflows into homes and streets. Hardest hit areas were the Sauquoit Valley and New Hartford, where over four inches fell in less than two hours.</p> <p>Three (3) youths had to be pulled from the Sauquoit Creek by local emergency services. High winds (convective) also knocked over trees and power lines. The heavy rain also reduced visibility along Ulster County Rt. 67, resulting in four (4) persons being injured in a car accident. One (1) additional person was injured in a separate accident.</p> <p>A tornado touched down in northeast Franklin County near Chateaugay, causing light damage in a wooded area. Another tornado touched down near Marlboro in southern Ulster County where it picked up three (3) mobile homes and dropped them in a field. Lightning also struck four (4) persons in Dutchess County: one (1) child was turning on a light switch, one (1) was boating, one (1) was on the telephone, and one (1) person was standing in the woods.</p>									
Otsego County	29	1115EST			0	0	4	3	Thunderstorm Winds
Herkimer County	29	1137EST			0	0	4	0	High Winds
Otsego County	29	1150EST			0	0	5	3	Lightning
Herkimer County	29	1200EST			0	0	4	0	High Winds
Fulton County	29	1220EST			0	0	3	0	High Winds
Montgomery County	29	1230EST			0	0	0	0	Hail (0.75)
Fulton County	29	1310EST			0	0	0	3	High Wind
Fulton County	29	1310EST			0	0	0	0	Hail (0.75)
Schenectady County	29	1337EST			0	0	0	0	Hail (0.75)
Warren County	29	1353EST			0	0	0	0	Hail (0.75)
Schenectady County	29	1400EST			0	0	3	3	High Wind
Albany County	29	1400EST			0	0	0	0	Hail (0.75)
Albany County	29	1400EST			0	0	3	3	High Wind
Otsego County	29	1415EST			0	0	0	0	Hail (0.75)
Otsego County	29	1430EST			0	0	5	3	Thunderstorm Winds
Cortland County	29	1500EST			0	0	3	0	Flood
Putnam County	29	1536EST			0	0	4	0	Lightning
Columbia County	29	1540EST			0	0	4	0	Lightning
Columbia County	29	1540EST			0	0	0	0	Hail (0.50)
Dutchess County	29	1555EST			0	0	3	0	Lightning
Greene County	29	1627EST			0	0	3	3	High Winds
Columbia County	29	1627EST			0	0	3	3	High Winds
Dutchess County	29	1640EST			0	0	4	0	Lightning
Ontario County	29	1645EST			0	0	4	0	Lightning
Albany County	29	UNK			0	1	1	0	Lightning
Schenectady County	29	UNK			0	0	6	-	Flash Flood
<p>Lightning was blamed for a local barn fire. Lightning also struck one (1) male while he was installing drywalls in his home in Berne. This was the fourth time he was struck since 1977. Thunderstorms which roared across Eastern New York also produced heavy rain in Schenectady County. The Normanskill Creek and Washout Creek produced heavy flash flood damages in the town of Rotterdam and Princetown.</p>									
Orange County	29	2330EST			0	0	5	0	Lightning
Dutchess County	30	1500EST			0	0	5	0	Heavy Rain
Dutchess County	30	1630EST			0	0	4	0	Flash Flood
Ulster County	30	PM			0	0	5	3	Mud Slide
<p>Thunderstorms rolled across the area, bringing heavy rain and lightning. Torrents of rain reduced visibility and slickened roads, causing several accidents. The heavy rain also resulted in flooding along a tributary of the Wappingers Creek near Smiths Crossing. Lightning knocked out the Orange County Emergency Communication Center.</p>									
Broome County	31	UNK			0	0	5	3	Flash Flood
<p>The wettest July in 30 years contributed to the flash flood in the Conklin-Kirkwood area. Water was so deep and swift that it swept the former Sandman Hotel off its foundation and into the creek where it collapsed. Along Rt. 11, the Quality Inn was under three (3) feet of water on the ground level.</p>									
30 NEW YORK, Western									
Niagara County	07	1245 EST			0	0	4	0	TSTM Wind
Niagara County	07	1300 EST			0	0	4	0	Lightning
Orleans County	07	1330 EST			0	0	4	0	TSTM Wind
Genesee County	07	1400 EST			0	0	4	0	TSTM Wind
Erie County	07	1445 EST			0	0	4	0	Rain
<p>Severe thunderstorms passed across the area. They knocked down trees and power lines in Ray-alton, Niagara County; uprooted trees in Shelby, Orleans County; and toppled a silo and a barn in Rensselaire, Niagara County. Lightning strikes killed a few horses in Gasport, Niagara County.</p>									
Cattaraugus County	13	0130 EST			0	0	3	0	Rain
<p>Heavy thunderstorm rain washed out a section of Route 36 at Delevan.</p>									
Oswego County	13	1410 EST			0	0	3	0	TSTM Wind
Lewis County	13	1535 EST			0	0	3	0	TSTM Wind
<p>Severe thunderstorms knocked down a big tree in Hastings, Oswego County; and severed electric lines at Croghan, Lewis County.</p>									
Oswego & Onondaga Counties	13	1725 EST	11	7	0	5	5	0	Tornado (F1)
<p>A tornado touched ground at a grocery store parking lot in Fulton, Oswego County where it flung 20 cars into each other, stacking four of them in a twisted heap.</p> <p>It moved southeast, lifted off around several times, and ended near the intersection of Routes 57 and 31 near the town of Belgium, Onondaga County. There, it overturned a mobile home, moved 5 others off their foundations, and toppled a tree onto a house.</p> <p>Wind damages were also reported in the neighboring towns of Cicero and Lyander.</p> <p>Funnel clouds were sighted by WSO Evrard at 1730 EST.</p>									
Erie & Wyoming Counties	18	1945 EST			0	0	4	0	Wind & Rain
Chautauque County	18	1950 EST			0	0	4	0	Wind, Rain
Erie, Orleans, & Niagara Counties	18	2030 EST			0	0	4	0	Wind, Rain, & Lightning
Genesee & Chautauque Counties	18	2050 EST			0	0	4	0	Wind and Lightning
Chautauque County	18	2150 EST			0	0	4	0	Rain
Steuben and Chemung Counties	18	Evening			0	0	4	0	Wind
<p>Many severe thunderstorms passed across the area. They downed many trees and power lines. Low-lying areas were flooded.</p>									
Chautauque County	18	2230 EST			0	0	7	0	Rain and Lightning
<p>Heavy thunderstorms poured us to 6 inches of rain in a few hours over the southern portions of the county. Hit the hardest was the Panama-Ashtville area. The floodwaters overtopped Panama Dam, flooded Little Brokenstraw Creek, severely eroded portions of Route 474, swept away cars, and ravaged many homes.</p> <p>Goose Creek washed out a bridge and several homes in Ashtville.</p> <p>Damages were also reported in the towns of Nidre, Watts Flats, Busti, and Blockville.</p> <p>In the whole county, 51 bridges, 189 homes, 29 businesses, 2 schools, 1 church, and many roads were damaged. Uninsured losses alone amounted to \$5.2 million.</p>									
Seneca County	19	0130 EST			0	0	4	0	TSTM Wind and Rain
<p>Thunderstorm winds uprooted trees. Heavy rains washed out roadways, moved foundations of cottages, and decimated debris at Cayuga and Seneca Lakes.</p>									
Wyoming County	20	0610 EST			0	0	4	0	Lightning
<p>Lightning strikes damaged electric company equipment and caused power failures for several hours in the Warsaw and Perry area.</p>									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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	

NEW YORK, Western

Chautauque County	20 0900 EST				0	1	4	0	TSTM Winds, Rain, & Lightning
	Severe thunderstorm uprooted many trees and caused power failures in Jamestown. Fallen trees damaged cars and homes. Low-lying areas and basements were flooded. A man was injured by lightning.								
Stauben County	20 1045 EST				0	0	0	0	Rain
Chemung County	20 1300 EST				0	0	0	0	Rain
	Thunderstorm rains eroded streets in Corning and damaged a bridge on Route 41E.								
	A creek south of Elmira Airport overflowed its banks. A portion of Route 328 was inundated. With the hardest was the town of Hornby where floodwaters damaged 2 homes and scoured a few streets. Heavy road damages were also reported in the town of Horesheads and Big Flats.								
Wayne County	24 0315 EST				0	0	3	0	Lightning
	A lightning bolt struck a circuit breaker at the Village of Newark. More than 4000 electric customers were without power for a few hours.								
Chautauque County	28 2140 EST				0	0	3	0	Lightning and Rain
Wyoming County	28 2330 EST				0	0	3	0	Lightning and Rain
Wyoming County	29 2354 EST				0	0	3	0	Lightning
Allegheny County	29 0110 EST				0	0	3	0	Lightning
	A lightning strike burned a vacant cabin to the ground in Cassedaga, Chautauque County. Another lightning bolt struck a house in Attica, Wyoming County.								
	Some localized flooding was reported in Davton, Chautauque County; and in Attica and Varysburg, Wyoming County.								
	In Attica, a lightning bolt struck a house, damaging its electric wiring. Power outages caused by lightning strikes were reported in Bellver and Cuba, Allegheny County.								

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Lee County	01 1528EST				0	0	3	?	Thunderstorm Winds
Harnett County	01 1535EST	5	150		0	0	4	?	Tornado (F1), Hail (1.50)
Harnett County	01 1616EST	Short	25		0	0	3	?	Tornado (F0)
Catawba County	01 1621EST				0	0	?	?	Thunderstorm Winds, Hail (1.00)
Catawba County	01 1630EST				0	0	?	?	Hail (1.00)
Catawba County	01 1700EST				0	0	?	?	Hail (1.00)
	A severe thunderstorm developed rapidly in extreme eastern Lee County, blowing shingles off roofs and causing trees to be blown down near Swann. As the storm moved into Harnett County, it produced a tornado 2 miles east of Swann. The tornado skipped along the ground for about 5 miles causing intermittent, mostly minor damage. Some trees were blown onto homes and cars, and a barn roof was removed near Seminole. The tornado weakened as it moved northeast. The parent storm produced another, weaker tornado between Manners and Kipling. In the western part of the state, a couple of severe storms moved through Catawba County. Gusts to over 60 knots were reported south of Catawba, and west of Newton, hailstones up to 1 inch were reported twice, 30 minutes apart.								
Halifax County	02 1445EST				0	0	?	?	Thunderstorm Winds
Mecklenburg County	02 1518EST				0	0	3	0	Thunderstorm Winds
Chowan County	02 1550EST				0	0	3	0	Thunderstorm Winds, Funnel Cloud
Chowan County	02 1605EST				0	0	?	?	Thunderstorm Winds
Pasquotank County	02 1606EST				0	0	3	0	Thunderstorm Winds (60)
Dare County	02 1617EST				0	0	3	0	Thunderstorm Winds
Martin County	02 1625EST				0	0	?	?	Thunderstorm Winds
Duplin County	02 1630EST				0	0	4	?	Thunderstorm Winds (70)
Currituck County	02 1635EST				0	0	0	0	Waterspouts
Martin County	02 1651EST				0	0	?	?	Thunderstorm Winds
Dare County	02 1709EST				0	0	3	0	Thunderstorm Winds, Funnel Cloud
Bladen County	02 1730EST				0	0	3	?	Thunderstorm Winds
Scotland County	02 1800EST				0	0	3	0	Thunderstorm Winds
Jones County	02 1825EST				0	0	4	?	Thunderstorm Winds
Bladen County	02 1930EST				0	0	4	?	Thunderstorm Winds
Pender County	02 1955EST				0	0	3	?	Thunderstorm Winds
Onslow County	02 2030EST	1 1/2	35		3	10	5	0	Tornado (F2)
Onslow County	02 2105EST				0	0	3	?	Thunderstorm Winds
	Severe thunderstorms developed in northeastern North Carolina during								

NORTH CAROLINA

	the afternoon and moved across much of that part of the state. Trees were blown across roads in Martin County as a storm slowly moved through. Trees were also reported across roads in a couple spots in Halifax County. Trees were blown down and a couple of outbuildings were destroyed in the Rocky Hook and Smalls Crossroads areas of Chowan County. At Elizabeth City in Pasquotank County, winds gusted to 60 knots at the airport and trees and power lines were blown down in town. The Coast Guard reported 5 waterspouts about 10 miles west of Powell's Point in Currituck County. Several reports of funnel clouds were also received from Dare County, and at Pea Island, a full dumpster was blown across a parking area. At Nags Head, a house under construction was damaged by the wind. This area of severe storms gradually pressed south, and even stronger storms developed as the area merged with severe storms moving east from western North Carolina. At Lake Norman in Mecklenburg County, a small sailboat was blown about 150 feet, and the roof was removed from a boathouse. Laurinburg, in Scotland County reported several trees and power lines blown down. The storms continued to intensify and expand in coverage as they moved east, and intersected with the area of storms moving from the north. A number of trees were snapped and some roofs damaged 8 miles west of Comfort in Jones County. An unoccupied mobile home was destroyed in that area. Bladen County received the effects of two severe storms. The porch and columns of a home were blown off near Council in the earlier storm, and at Kelly, thunderstorm winds blew down trees and power lines, and blew off part of a roof. West of Atkinson in Pender County, a large oak tree fell into the living room of a home. A shed in the area was destroyed and several trees were uprooted. At Register Crossroads in southern Duplin County, substantial damage to homes from falling trees was reported. Winds were estimated at 70 knots as the storm ripped tin roofs off buildings in the area. A tornado touched down in a trailer park at Jacksonville in Onslow County. Three people were killed and several others were injured. Ten mobile homes were destroyed and 20 others damaged. The storm touched down twice in a 1 1/2 mile path, and moved east-northeast. Further to the east in Onslow County, windows were blown out and an outbuilding was destroyed at Hubert. Damage was estimated at nearly \$500,000 in the county. Tornado F20H, F4M, F1month.								
Onslow County	08 1700EST				0	0	3	0	Thunderstorm Winds
Robeson County	08 1800EST				0	1	3	0	Thunderstorm Winds
Robeson County	08 1830EST				0	0	3	0	Thunderstorm Winds
	Four utility poles were blown down on the north side of Jacksonville. In Robeson County, a slow-moving thunderstorm affected parts of the county for about 45 minutes. One man was injured when a tree fell on his truck while he was driving through Rowland. A school in town had some roof damage, and trees and power lines were blown down in Fairmont and Orrum as well.								
Person County	09 1730EST				0	0	3	0	Thunderstorm Winds
Halifax County	09 1845EST				0	0	?	?	Thunderstorm Winds
Cabarrus County	09 2015EST				0	0	5	0	Thunderstorm Winds (61)
Pitt County	09 2100EST				0	0	3	?	Thunderstorm Winds
	Some buildings were damaged as trees were blown down in the Bethel Hill community in Person County. Trees were blown down across much of Halifax County, and crews spent much of the night cleaning up. A few trees were blown down at Ayden in Pitt County, and power was out as a result of high winds in Winterville. At Concord in Cabarrus County, a hangar at a private airstrip collapsed onto two airplanes. Many trees in the area were blown down, and a car dealership suffered about \$10,000 damage. The storm also damaged quite a few homes and cars in the area.								
Surry County	10 0115EST				0	0	4	0	Thunderstorm Winds
	A late night severe storm moved across Surry County, blowing down trees and power lines in several locations. A mobile home and car received about \$6,000 in damage when trees fell on them in the Bannertown area.								
Albermarle County	10 1500EST				0	1	0	0	Lightning
Johnston County	10 1655EST				0	0	5	?	Thunderstorm Winds (75)
Sampson County	10 1706EST				0	0	?	?	Thunderstorm Winds
Johnston County	10 1730EST				0	0	5	0	Thunderstorm Winds (55)
Vance County	10 1730EST				0	0	3	?	Thunderstorm Winds, Hail (1.75)
Robeson County	10 1740EST				0	0	?	?	Thunderstorm Winds
Wilson County	10 1830EST				0	0	5	0	Thunderstorm Winds (65)
Duplin County	10 1830EST				0	0	3	0	Thunderstorm Winds
Edgecombe County	10 1840EST				0	0	3	0	Thunderstorm Winds (52)
	Lightning injured a teenage girl as she talked on the phone at Oakboro in Albermarle County. A large severe storm moved slowly across much of central and northern Johnston County. West of Selma, a building at a lumber yard collapsed, and a store suffered about \$40,000 in damage. A tank at a fuel storage yard was damaged and many trees were blown down over Selma and Smithfield. Winds were 50 to 60 mph over a large area, and in small areas there was evidence of downburst winds of up to 80 or 90 mph. Trees were blown down at Roseboro in Sampson County, at Fairmont and Rowland in Robeson County, and 2 miles west of Wallace in Duplin County. A severe thunderstorm struck eastern Wilson County, blowing down trees and power lines onto homes, and causing about \$50,000 in damage at Saratoga. The storm produced winds of over 50 knots, and uprooted trees, between Crisp and Macclesfield in Edgecombe County. At Gilburg, in Vance County, some siding was blown off a house, the antenna was blown off, and trees were uprooted. Golfball size hail was also observed.								

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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

Wake County	11	1530EST			0	0	5	0	Lightning
Jackson County	11	1700EST			0	0	3	0	Thunderstorm Winds
Granville County	11	1750EST			0	0	?	0	Thunderstorm Winds
Swain County	11	1800EST			0	0	?	?	Thunderstorm Winds
Wilson County	11	1845EST			0	0	?	?	Thunderstorm Winds
Cabarrus County	11	1900EST			0	0	3	0	Thunderstorm Winds

Lightning struck two new homes in northern Wake County. Both were destroyed by the resulting fire. In Jackson County, a storm moved across the campus of Western Carolina University, causing some property damage. A satellite dish was damaged, a porch was blown off a mobile home, and some trees were uprooted. A few trees were blown down at Oxford in Granville County, and in southern Wilson County. A storm blew down numerous trees in the southern part of Concord in Cabarrus County. At Bryson City and Cherokee, 4 large trees were blown across the highway.

Johnston County	12	1320EST			0	0	3	0	Thunderstorm Winds
Wilson County	12	1430EST			0	0	?	0	Thunderstorm Winds
Sampson County	12	1500EST			0	0	4	0	Thunderstorm Winds
Wayne County	12	1535EST			0	0	5	0	Thunderstorm Winds
Martin County	12	1545EST			0	0	?	?	Thunderstorm Winds
Greene County	12	1600EST			0	0	4	0	Thunderstorm Winds
Wayne County	12	1600EST			0	0	3	0	Thunderstorm Winds
Washington County	12	1630EST			0	0	4	0	Thunderstorm Winds
Beaufort County	12	1656EST	1	0	0	0	0	0	Lightning
Hyde County	12	1850EST			0	0	?	?	Thunderstorm Winds
Granville County	12	2045EST			0	0	?	?	Thunderstorm Winds
Chatham County	12	2245EST			0	0	3	0	Thunderstorm Winds
Wake County	12	2245EST			0	0	5	0	Lightning

A severe thunderstorm developed in Johnston County, and blew down some trees and blew the underpinning out from under a trailer. In Wilson County, a few trees were blown down in Wilson and over the eastern part of the county. A much stronger storm developed in northern Sampson County, where much of the area was without power for hours. A tobacco harvester was severely damaged, and a small building destroyed along Highway 55. The storm moved into Wayne County where heavy damage was reported. Many trees were blown down in Goldsboro, some falling onto homes and cars. Some buildings sustained direct damage from the storm as it moved through the city for 1/2 hour. Similar types of damage were reported from the Bureka and Walnut Creek areas of Wayne County. When this storm moved into Greene County, it caused about \$30,000 damage to structures and additional damage to vehicles and other property. At Snow Hill, a deck was blown off a home and several homes received roof damage. This same storm had little effect as it moved across Pitt County, but regained strength as it moved into Beaufort County. At Washington, a mobile home was destroyed, and seven cars were damaged by the debris when a shed was destroyed. Winds were estimated over 60 knots. Fifty-two knot winds were measured at the Martin County airport, and a boy was struck and killed by lightning at Albermarle Beach in Washington County. He had been skiing and was attempting to get out of the boat when the lightning struck. Large limbs were blown from trees near Fairfield in Hyde County as this storm system pressed east and began to weaken. However, another area of severe storms formed over central sections of the state later in the evening. At Butler, in Granville County, trees were downed and a roof was blown off a shed. At Moncure in Chatham County, a carport was demolished, windows were blown out, and trees were uprooted. And in north Raleigh, lightning struck a golf cart shed and 100 golf carts were destroyed by fire. Damage was estimated at over \$400,000. Lightning M110

Burke County	13	1530EST			0	0	?	?	Thunderstorm Winds
Surry County	13	1855EST			0	0	?	?	Hail (1.00)
Cumberland County	13	1910EST			0	0	3	?	Thunderstorm Winds
Cumberland County	13	2000EST			0	0	3	?	Thunderstorm Winds
Lincoln County	13	2000EST			0	0	3	?	Thunderstorm Winds
Iredell County	13	2005EST			0	0	?	?	Thunderstorm Winds
Scotland County	13	2130EST			0	4	3	?	Thunderstorm Winds
Hoke County	13	2200EST			0	0	3	?	Thunderstorm Winds
Robeson County	13	2200EST			0	0	?	?	Hail (0.75)

West of Morganton, several large trees were blown across power lines. Quarter size hail fell in western Surry County. In Lincoln County, a shed was blown over near Lake Norman and trees were blown down in Lincolnton. Trees were blown down at Mooresville. A couple of severe storms moved through the south-central part of the state. Trees and power lines were blown down as a storm moved through southern Cumberland County. Four people were injured in Scotland County when their vehicle ran into a fallen tree. Dime size hail fell at St. Pauls, and 4 miles east of Raeford, a section of roof was removed from a home.

New Hanover County	15	1525EST			0	0	?	?	Hail (1.00)
Onslow County	15	1600EST			0	0	?	?	Thunderstorm Winds
New Hanover County	15	1613EST			0	0	?	0	Thunderstorm Winds (55), Hail (0.75)
New Hanover County	15	1634EST			0	3	5	0	Thunderstorm Winds (68), Lightning
Onslow County	15	1638EST			0	0	3	?	Thunderstorm Winds
Pender County	15	1705EST			0	0	?	?	Thunderstorm Winds
Carteret County	15	1800EST			0	0	?	?	Thunderstorm Winds

A small area of severe thunderstorms were concentrated in south-eastern North Carolina. Winds gusted to over 50 knots twice at ILM and some damage was reported in the city of Wilmington. Two hangars were damaged at the airport, and several airplanes were also damaged.

— NORTH CAROLINA

Pasquotank County	19	1400EST			0	0	0	0	Waterspout
Dare County	19	1420EST			0	0	0	0	Thunderstorm Winds (52)
Dare County	19	1500EST			0	0	0	0	Thunderstorm Winds (52)
Hyde County	19	1515EST			0	0	0	0	Thunderstorm Winds
Hertford County	19	1530EST			0	0	3	0	Thunderstorm Winds
Pitt County	19	1635EST			0	0	3	5	Thunderstorm Winds, Hail (1.75)
Craven County	19	1714EST			0	0	?	?	Hail (0.75)

In town, damage mostly consisted of trees falling on homes and some cars. Three people suffered minor scrapes when a tree fell on their car. In Onslow County, power lines were blown down in Holly Ridge, and in Pender County, the tops of several trees were blown out. Lightning caused numerous structure fires across the area.

Stokes County	20	1530EST			0	1	0	0	Lightning
Warren County	20	2100EST			0	0	3	0	Thunderstorm Winds
Warren County	20	2123EST			0	0	4	0	Thunderstorm Winds

A waterspout was observed over the Pasquotank River possibly moving onto shore, however no damage was reported. Severe storms produced high winds at the Alligator River Bridge and also in the Stumpy Point and Englehard areas. Minor damage to roofs was reported at Englehard. Dime size hail fell and trees were blown down at Mumfreesboro in Hertford County. A particularly severe storm hit southern Pitt County, destroying crops and damaging farm property. In Craven County, dime size hail fell at Vanceboro.

Moore County	21	1300EST			0	0	4	0	Thunderstorm Winds (61), Hail (1.00)
Harnett County	21	1400EST			0	0	4	0	Thunderstorm Winds, Flash Flood

A young man was struck and injured by lightning while outside his home in Stokes County. One severe storm moved from North to South across Warren County in the evening. The most damage was reported in the Vaughan area where a grain storage building was demolished, roofs were taken off some storage buildings, and the roof of a mobile home was peeled back. Trees were blown down along the storm's path.

Surry County	21	1400EST			0	0	4	?	Thunderstorm Winds
Surry County	21	1430EST			0	0	2	0	Thunderstorm Winds
Sampson County	21	1430EST			0	0	5	?	Thunderstorm Winds
Robeson County	21	1435EST			0	0	3	?	Thunderstorm Winds
Duplin County	21	1445EST			0	0	3	?	Thunderstorm Winds
Sampson County	21	1445EST			0	0	3	?	Thunderstorm Winds
Cleveland County	21	1735EST			0	0	?	?	Thunderstorm Winds
Gaston County	21	1830EST			0	0	3	?	Thunderstorm Winds
Person County	21	1915EST			0	0	6	0	Lightning

At Pinehurst, winds up to 70 mph tore down trees and blew part of the roof off a tennis club. Quarter-sized hail was also observed. A very severe storm struck Dunn in Harnett County. Several cars were damaged by falling trees, and two walls of a construction project were blown down. Damage to other buildings from the high winds was also reported. Juniper Creek overflowed and caused some flooding around town. Water was up to the floorboards in some cars, and water entered and damaged some businesses. Winds also blew down trees in the Fairmont area of Robeson County, and caused major problems across Sampson County. Damages in Sampson County were estimated at over \$50,000. Trees and power lines were blown down in the Clinton and Poplar Bluff areas. The heaviest damage occurred near Faison, in both Sampson and Duplin Counties. Tin was peeled off roofs, a mobile home was destroyed, and roofs were torn off barns. Windows were blown out of houses during the storm. In the western part of the state, a severe storm moved across much of Surry County. In the Flat Rock community, a brick wall was blown over and a chimney was blown off a house. Trees were blown down elsewhere in the county. Ten sheds with open fronts were damaged by the wind in northeast-Gaston County, and trees were reported down in Cherryville. Fire, started by lightning, gutted a commercial building in Roxboro, Person County, causing more than \$500,000 damage. A mobile home was destroyed between Shelby and Bowling Springs in Cleveland County. Several power poles were blown down in the same area, and debris was blown into the path of several vehicles. Eighteen hundred residents were without power for several hours.

Transylvania County	22	1415EST			0	0	?	?	Thunderstorm Winds
Sampson County	22	1738EST			0	0	?	?	Thunderstorm Winds
Onslow County	22	1810EST			0	0	?	?	Thunderstorm Winds
Wake County	22	1830EST			0	0	3	0	Thunderstorm Winds

Several trees fell in Brevard during a severe storm. Power was out in the area for a couple of hours. Windows were blown out and trees were blown down 6 miles southwest of Jacksonville in Onslow County. At Clinton and Spivey's Corners in Sampson County, power lines were blown down. In Raleigh, 2 trees were blown down, and the fence of a swimming pool was damaged by the wind. Trees were blown down south of Raleigh.

New Hanover County	23	1245EST			0	0	?	?	Thunderstorm Winds
Sampson County	23	1500EST			0	0	?	?	Thunderstorm Winds

At Wilmington, winds gusted to 55 knots, and 7 miles north of Clinton in Sampson County, a chicken coop was damaged by the wind.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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

NORTH CAROLINA

Brunswick County	25	1350EST			0	0	0	?	Hail (0.75)	
Rowan County	25	1545EST			0	0	3	0	Thunderstorm Winds	
Davie County	25	1600EST			0	0	?	?	Thunderstorm Winds	

Dime size hail fell between Shalotte and Longwood. Large tree limbs and power lines were blown down around Salisbury, and in Davie County, large trees were blown down near the Rowan County line.

Warren County	26	1545EST			0	0	0	0	Thunderstorm Winds	
Macon County	26	1555EST			0	0	3	0	Thunderstorm Winds	
Granville County	26	1630EST			0	0	?	0	Thunderstorm Winds	
Rockingham County	26	1630EST			0	0	?	?	Thunderstorm Winds	
Granville County	26	1700EST			0	0	3	0	Thunderstorm Winds	
Person County	26	1700EST			0	0	4	0	Thunderstorm Winds	
Caswell County	26	1700EST			0	0	?	?	Thunderstorm Winds, Hail (1.75)	
Alamance County	26	1700EST			0	0	?	?	Thunderstorm Winds	
Wake County	26	1720EST			0	0	0	0	Thunderstorm Winds	
Durham County	26	1730EST			0	0	3	0	Thunderstorm Winds	
Alexander County	26	1735EST			0	0	4	?	Thunderstorm Winds	
Davie County	26	1735EST			0	0	3	0	Thunderstorm Winds, Hail (1.75)	

Severe thunderstorms began in the Northern Piedmont and foothills of the state. Trees, limbs and power lines were blown down in the following areas: Warrenton, Oxford, northern Granville, northern Durham County, Durham city, and twice in Raleigh. A roof was removed from a building in Sanford where trees and power lines were also reported down. In the western parts of the state, trees blocked roads for quite a while around Stony, and similar damage was reported from Iredell County. Golfball size hail was also reported there. A slow-moving severe storm crossed Catawba County, causing many reports of typical summertime severe weather such as trees and power lines being blown down. At Statesville, a 19-year old boy and an 18-year old girl were injured by lightning. They were in a treehouse. Morgantown was especially hard hit with trees blocking streets for several hours. Trees were also blown in Franklin.

Stokes County	27	1600EST			0	0	?	?	Thunderstorm Winds	
Mecklenburg County	27	1645EST			0	0	?	0	Thunderstorm Winds	
Sampson County	27	1725EST			0	0	0	?	Hail (0.75)	
Sampson County	27	1815EST			0	0	?	?	Thunderstorm Winds	
Harnett County	27	1900EST			0	0	?	?	Hail (1.75)	
Johnston County	27	1940EST			0	0	?	?	Thunderstorm Winds	
Sampson County	27	2130EST			0	0	?	?	Thunderstorm Winds	
Onslow County	27	2355EST			0	0	?	?	Thunderstorm Winds (65)	

Trees and power lines were blown down 5 miles south of Sandy Ridge in Stokes County. Several trees were blown down in southern Mecklenburg County. At least two different severe storms affected Sampson County with dime size hail falling at Autryville and trees reported blown down 5 miles southeast of Clinton, and then later, more trees and power lines were blown down in Clinton. Golfball size hail fell near Angier in northern Harnett County, and this storm blew down trees in and near Clayton as it moved into Johnston County. A gust to 65 knots was reported at Hubert in Onslow County.

Rutherford County	29	1400EST			0	1	0	0	Lightning	
Gaston County	29	1500EST			0	0	?	0	Thunderstorm Winds	
Vance County	29	1500EST			0	0	3	0	Thunderstorm Winds, Hail (1.00)	
Pasquotank County	29	1600EST			0	0	0	0	Thunderstorm Winds	
Guilford County	29	1600EST			0	0	3	0	Thunderstorm Winds	
Guilford County	29	1630EST			0	0	4	0	Thunderstorm Winds	
Dare County	29	1856EST			0	0	0	0	Thunderstorm Winds (52)	
Harnett County	29	1915EST			0	0	3	0	Thunderstorm Winds	
Wake County	29	1950EST			0	0	3	0	Thunderstorm Winds	
Tyrrell County	29	2005EST			0	0	?	?	Hail (0.75)	

Lightning struck and seriously injured a 13-year old boy while he was in a tent at a Boys Scout Camp in Rutherford County. The same storm apparently blew down several trees as it later moved into the Bessemer City area. Winds downed some trees, and quarter-sized hail fell at Townsville in Vance County. And, a storm moving across Guilford County toppled trees in Greensboro and caused similar damage in Jamestown. A metal storage building was also destroyed there. A storm in Dunn felled one large tree and three power poles, and a large tree and some traffic signs were blown down at Wendell in Wake County. Winds were measured to 52 knots at the Alligator Bridge in Dare County, and 3/4-inch hail fell at Columbia in Tyrrell County. A few signs and power lines were blown down in Elizabeth City and Weicksville in Pasquotank County.

NORTH CAROLINA

NCZALL Statewide	All Month				0	0	?	8	Drought, Heat	
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The effects of the continuing drought were finally becoming readily apparent during July. Cumulative agricultural losses were being estimated at about \$400 million by some sources. The drought was more severe in the western 2/3 of the state, where hay was being shipped in from the midwest, and where ponds, wells, and even some small streams dried up. Water levels in some rivers and large lakes were several feet below normal. The drought became a hardship for many people. Along with the dry weather, heat was very oppressive during the month. Some stations set new records, and heat was blamed for 7 deaths, and contributed to several others.

32 NORTH DAKOTA

Walsh Co. (Whitman)	01	1315CST								Funnel
Grand Forks Co. (18W Grand Forks Air Force Base)	01	1330CST								Funnel
Towner Co. (14N Rock Lake)	03	1515CST			0	0	4	0	0	Tstm. Wind
Strong winds demolished a mobile home.										
Benson Co. (7E Leeds)	03	1700CST			0	0	0	0	0	Hail (0.75)
3/4 inch hail was reported by an observer for State Weather Modification.										
Cavalier Co. (8NE Starkweather)	03	1700CST			0	0	0	0	0	Hail (0.75)
3/4 inch hail was reported by a Cooperative Observer.										
Ramsey Co. (6W Devils Lake)	03	1735CST			0	0	0	0	0	Hail (1.00)
Hail 1 inch in diameter was reported.										
Ramsey Co. (2N Devils Lake)	03	1750CST			0	0	0	0	0	Hail (1.75)
Golfball-sized hail was reported by a Ham radio operator.										
Walsh Co. (12SW Adams)	03	1805CST			0	0	0	0	0	Tstm. Wind (61)
Wind gusts to 70 mph were reported by a Cooperative Observer.										
Foster Co. (McHenry)	03	1900CST			0	0	0	0	0	Hail (1.75)
Golfball-sized hail was reported by a Cooperative Observer.										
Stutsman Co. (Jamestown)	03	2028CST			0	0	0	0	0	Hail (1.00)
Hail 1 inch in diameter was reported.										
Trail Co. (Buxton)	03	2035CST								Funnel
A funnel cloud was sighted by the Highway Patrol.										
Barnes Co. (Rogera)	03	2040CST			0	0	0	0	0	Hail (1.75)
Golfball-sized hail was reported by the Highway Patrol.										
Stutsman Co. (2N Montpelier)	03	2050CST			0	0	0	0	0	Hail (2.75)
Baseball-sized hail was reported.										
Cass Co. (Durbin)	03	2210CST								Funnel
Ransom Co. (McLeod)	03	2245CST			0	0	0	0	0	Tstm. Wind
Strong winds uprooted trees.										
Cass Co. (2N Hickson)	03	2249CST			0	0	?	?	?	Hail (1.00)
Hickson	03	2250CST			0	0	5	5	5	Tstm. Wind
Strong winds damaged the roof of a farm building and shifted two other buildings off of their foundations at Hickson at 2249CST. 2 inch hail was reported 2 miles north of Hickson.										
Walsh Co. (Grafton)	05	0055CST			0	0	0	0	0	Hail (1.75)
Golfball-sized hail was reported.										
Pembina Co. (Drayton)	05	0120CST			0	0	0	0	0	Hail (0.88)
Quarter-sized hail was reported by law enforcement officials.										
Foster Co. (Carrington)	05	Early Morning			0	0	?	?	0	Lightning
Lightning struck a power substation in Carrington, causing power outages.										

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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 DAKOTA									
Nelson Co. (18N Cooperstown)	10	1155CST	Short	5-15	0	0	0	0	Tornado (FO)
			A tornado touchdown was sighted by an Air Force weather observer.						
NW Steele Co.	10	1240CST to 1330CST							Funnels
			Four funnel clouds were sighted by various law enforcement agencies at 1240CST 15 miles southwest of Sharon, and at 1330CST at Sharon. Two simultaneous funnel clouds at 1242CST 3 miles west of Finley were also sighted.						
Grand Forks Co. (Grand Forks)	10	1300CST			0	0	4	0	Lightning
			Lightning struck a 1600-foot high transmitter of a Grand Forks Television station. This caused the station to be off the air for 27 hours.						
Steele Co. (SE Finley)	10	1340CST	Short	5-15	0	0	0	0	Tornado (FO)
			A brief tornado touchdown, in an open field, was witnessed by five law enforcement units.						
Cass Co. Srn. and Ern. Cass Co.	10	1523CST to 1816CST							Funnels
Mapleton 3N Buffalo	10	1803CST	Short	5-15	0	0	0	0	Tornado (FO)
	10	1824CST	Short	5-15	0	0	0	0	Tornado (FO)
			A brief tornado touchdown occurred at Mapleton at 1803CST, while another brief tornado touchdown occurred 3 miles north of Buffalo at 1824CST. A funnel cloud was sighted 2 miles west of Amenita at 1523CST, 2 funnel clouds were sighted 3 miles west of Casselton at 1705CST, 2 funnel clouds occurred at Mapleton at 1740CST, 3 funnel clouds were reported by the sheriff at 1725CST, and a funnel cloud was sighted 4 miles northwest of Buffalo at 1816CST.						
Cass Co.	10	Late Afternoon & Evening			0	0	?	?	Istm. Heavy Rains
			Up to 6 inches of rain fell over parts of Cass County, with an unofficial report of 9 inches at Arthur. The rainwater inundated farmland.						
Mountrail Co. (New Town)	11	1620CST							Funnel
			A cold-air funnel cloud was reported by the sheriff.						
Ramsey Co. (5NW Edmore)	11	1735CST	Short	5-15	0	0	4	4	Tornado (FO)
			A tornado touched down briefly, damaging a sunflower field.						
Ramsey, Nelson, and Cavalier Counties	11	Afternoon							Funnels
			Numerous cold-air funnel clouds were sighted by Skywarn spotters.						
Burleigh Co. (3NE Bismarck)	11	1920CST							Funnels
			2 cold-air funnel clouds were sighted.						
Bottineau Co. (3N Bottineau)	13	2040CST			0	0	0	0	Hail (1.75)
			Golfball-sized hail was reported.						
Rolette Co. (Dunseith)	13	2105CST			0	0	0	0	Hail (0.75)
			3/4 inch hail was reported.						
Stark Co. (Dickinson)	15	0407CST			0	0	0	0	Tstm. Wind (51)
			Wind gusts to 59 mph were recorded at the Dickinson airport. At 0420CST, wind gusts to 81 mph were reported in the City of Dickinson.						
Stark Co. (Taylor)	15	0420CST			0	0	0	0	Tstm. Wind (52)
			Wind gusts to 60 mph were reported by a Cooperative Observer.						
Ward Co. (9NE Douglas)	16	0400CST			0	0	4	0	Tstm. Wind
			Strong winds, combined with heavy rains, destroyed a pole barn.						
McHenry Co. (Balfour)	16	Early Morning			0	0	4	0	Lightning
			Lightning struck and burned a barn. The contents inside were also destroyed.						
Ransom Co. McLeod McLeod	16	1052CST			0	0	?	?	Tstm. Wind (52)
	16	1053CST			0	0	6	6	Hail (2.75)
			Winds to 60 mph uprooted trees, causing power outages, while baseball-sized hail damaged crops and knocked out windows. Nearly every building in the town of McLeod had broken windows. The hail was accompanied by heavy rains, 2.3 inches of rain in 15 minutes.						
— NORTH DAKOTA									
Richland Co: 12SW Colfax Colfax	16	1110CST			0	0	6	6	Hail (2.75)
	16	1110CST			0	0	?	?	Tstm. Wind
			Baseball-sized hail damaged crops, broke windows, and damaged a trailer. The hail affected a 10 to 12-mile stretch between the towns of Colfax and McLeod. Meanwhile, strong winds broke off large tree branches, causing power outages in the town of McLeod.						
Williams Co. (Williston)	17	0100CST to 0330CST			0	0	6	?	Tstm. Heavy Rains
			2.82 inches of rain was recorded at the Williston airport, with unofficial reports of 6 inches. The water was up to 5 feet deep on streets. The high waters submerged cars and stranded motorists. Water runoff caved in a house basement, flooded many other basements, caused power outages, backed up sewage in homes, and left standing water on the main floors of buildings.						
Dunn Co. (Halliday)	17	0400CST			0	0	4	0	Tstm. Wind
			Strong winds destroyed a quonset hut. Some of the metal sheets were blown a quarter mile away.						
McLean Co. (Roseglen)	17	0500CST	Short	5-15	0	0	4	?	Tornado (FI)
			A tornado picked up two empty anchored-down grain bins and deposited them undamaged in a field a mile away.						
Richland Co. (1SN Wapeton)	17	1145CST	Short	5-15	0	0	4	4	Tornado (FO)
			A tornado uprooted trees, destroyed a grain bin and two calf barns, damaged two trailers, and tore the roof off of a pole barn.						
Stutsman Co. (2N Millerton)	18	1700CST							Funnel
Stark Co. (Taylor)	22	2034CST			0	0	0	0	Tstm. Wind (54)
			A wind gust to 62 mph was recorded.						
McKenzie Co. (Watford City)	25	1550CST			0	0	?	?	C Hail (1.50)
			1-1/2 inch hail damaged crops, gardens, houses, and cars.						
Burke Co. (Lignite)	25	1750CST			0	0	0	0	Tstm. Wind
			Strong winds blew over grain bins.						
Bowman Co. (Bowman)	26	1645CST			0	0	4	0	Tstm. Wind (70)
			Wind speeds to 81 mph were measured at the Bowman airport. The winds blew off a trailer door.						
Benson Co. (3W Tokio)	26	1712CST			0	0	0	0	Hail (1.00)
Stutsman Co. (Medina)	26	1810CST			0	0	0	0	Tstm. Wind (52)
			Wind gusts to 60 mph were reported by a Cooperative Observer.						
Stutsman Co. (Jamestown)	26	1830CST			0	0	0	0	Hail (0.75)
			3/4 inch hail was reported in the northeast part of the city.						
Stutsman Co. (Medina)	26	1830CST			0	0	0	0	Hail (0.75)
Logan Co. (Gackle)	26	1905CST			0	0	4	4	Hail (0.75)
			3/4 inch hail damaged crops and gardens.						
Barnes Co. (Litchville)	26	2015CST			0	0	0	0	Hail (1.00)
			1 inch hail was reported by a Cooperative Observer.						
Traill Co. (10E Galesburg)	26	2045CST			0	0	0	0	Tstm. Winds (52)
			60 mph winds were reported by the sheriff.						
Burke Co. (5S Lignite)	27	1810CST			0	0	?	?	C Hail (1.50)
			Hailstones up to 1-1/2 inches in diameter damaged crops in central and eastern Burke County.						
Wells Co. 5S Harvey Harvey	27	1835CST			0	0	0	0	Funnel
	27	1835CST	Short	5-15	0	0	0	0	Tornado (FO)
			A tornado was sighted by a sheriff's deputy.						
Grand Forks Co. (Grand Forks)	27	1840CST							Funnel
			A funnel cloud was sighted by Flight Service Station personnel.						

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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					KILLED	INJURED	PROPERTY	CROPS	
— NORTH DAKOTA									
Golden Valley Co. (Beach)	27	2025CST			0	0	?	C	Hail (0.75)
									3/4 inch hail damaged roofs, cars, and gardens in the town of Beach. The hail also damaged some cropland north and east of Beach.
Bottineau Co: 2SW Westhope	27	2158CST			0	0	0	0	Hail (0.75)
Westhope	27	2225CST			0	0	?	?	Hail (1.75)
									3/4 inch hail occurred 2 miles southwest of Westhope at 2158CST. Golfball-sized hail began at Westhope at 2225CST.
Ward Co: 7NW Minot	27	2305CST	Short 5-15		0	0	0	0	Tornado (F0)
5NW Minot	27	2325CST	Short 5-15		0	0	0	0	Tornado (F0)
Minot	27	2339CST	Short 5-15		0	0	4	4	Tornado (F0)
									At 2305CST, Minot police reported a tornado 7 miles northwest of Minot. At 2325CST, the police reported a tornado 5 miles north-northwest of Minot. At 2339CST, Flight Service Station personnel reported a tornado in the city of Minot. This tornado knocked down trees, and damaged cars and metal buildings.
McHenry Co. (Granville)	28	Early Morning			0	0	4	0	Lightning
									A farm home was struck and burned by lightning.
Mercer Co. (Beulah)	29	1635CST			0	0	?	?	Hail (1.75)
									Golfball-sized hail was reported.
Mercer Co. (15ESE Hazen)	29	1700CST			0	0	0	0	Hail (0.75)
									3/4 inch hail was reported by the Highway Patrol 15 miles east-southeast of Hazen in the southeast corner of Mercer County.
Oliver Co. (8E Center)	29	1829CST			0	0	4	?	Hail (1.75)
									Golfball-sized hail bounced up to 20 feet in the air after initial impact. The hail also damaged car windshields and headlights.
Morton Co. (16NW Mandan)	29	1845CST			0	0	?	?	Hail (1.75)
									Golfball-sized hail was reported by Skywarn spotters.
McHenry Co. (Ansmoose)	29	1900CST							Funnel
Adams Co. (17S Mott)	29	1908CST			0	0	0	0	Tstm. Wind (61)
									65 to 75 mph winds were reported.
Morton County, Mandan	29	1910CST			0	0	?	?	Hail (1.75)
Burleigh County, 7W Bismarck	29	1911CST			0	0	?	?	Hail (2.00)
Morton County, Mandan	29	1931CST			0	0	?	?	Hail (4.50)
Burleigh County, Bismarck	29	1938CST			0	0	?	?	Hail (2.75)
Burleigh County, Bismarck	29	2010CST			0	0	?	?	Hail (4.00)
									At 1910CST, golfball-sized hail was reported by Skywarn spotters in the northeast section of Mandan. At 1931CST, softball-sized hail was reported in the north part of Mandan. At 1938CST, baseball sized hail occurred in the city of Bismarck. At 2010CST, hailstones up to 4 inches in diameter were reported by off-duty NWS employees in Bismarck. The hailstorm was the worst in the Bismarck-Mandan area since 1977. The hail damaged cars and recreational vehicles, house roofs, gardens, and greenhouses, and broke many windows.
Ramsey Co: Devils Lake	29	1950CST			0	0	0	0	Tstm. Wind (52)
Devils Lake	29	1955CST			0	0	0	0	Hail (0.75)
Devils Lake	29	2007CST							Funnel
									60 mph winds were reported in the city of Devils Lake at 1950CST. At 1955CST, 3/4 inch hail occurred in the city, and at 2007CST a funnel cloud was sighted.
Cavalier Co. (8SE Langdon)	29	2037CST							Funnels
									3 funnel clouds were sighted.
Stutsman Co. (12W Jamestown)	29	2049CST	Short 5-15		0	0	0	0	Tornado (F0)
									A brief tornado touchdown occurred.
Barnes Co. (10NW Valley City)	29	2140CST			0	0	0	0	Tstm. Wind (52)
									60 mph winds were reported by a Cooperative Observer at Baldhill Dam, or 10 miles northwest of Valley City.
Sargent Co. (Havana)	29	2350CST			0	0	5	?	Tstm. Wind
									High winds knocked over a grain bin, destroying a grain dryer. The winds also uprooted trees, blew out windows, tore the roof off a quonset hut, and stripped shingles from roofs.
— NORTH DAKOTA									
Richland Co. (Hankinson)	30	0045CST			0	0	4	0	Tstm. Wind
									Winds blew down large tree limbs.
Burke Co. (Columbus)	31	2040CST			0	0	0	0	Hail (0.75)
									Dime-sized hail was reported by the County Civil Defense Coordinator.
Burke Co. (Flaxton)	31	2115CST			0	0	0	0	Tstm. Wind (50)
									A Cooperative Observer reported 55 to 60 mph winds.
33 OHIO									
Hardin County	01	1830EST			0	0	4	0	Thunderstorm Wind
									A thunderstorm destroyed several trees in Ada.
Butler County	01	1900EST			0	0	4	0	Thunderstorm Wind
									A thunderstorm destroyed several trees and blew a section off a car wash in Oxford.
Montgomery County	01	2012EST			0	0	4	0	Thunderstorm Wind
									A thunderstorm destroyed several trees and a trailer in West Carrollton.
Columbiana County	08	1300EST			0	0	4	0	Thunderstorm Wind
									A thunderstorm destroyed trees and downed power lines in Butler and Center Townships.
Summit County	08	1525EST			0	0	4	0	Thunderstorm Wind
									Winds of 63 miles an hour were observed at the Akron-Canton Airport.
Stark County	08	1545EST			0	0	4	0	Thunderstorm Wind
									A thunderstorm felled trees in Hartville.
Mahoning County	08	1800EST			0	0	4	0	Thunderstorm Wind
									A thunderstorm destroyed several trees in and around Youngstown.
Huron County	08	2100EST			0	1	0	0	Lightning
									A 14 year old Norwalk boy suffered minor injuries when he was struck by lightning while talking on the telephone.
Ashland County	09	0000EST			0	0	4	0	Thunderstorm Wind
									A thunderstorm destroyed trees at scattered locations in the county.
Franklin County	09	0500EST			0	0	5	0	Thunderstorm Wind
									A thunderstorm partially deroofed a car dealership and damaged 15 cars.
Fairfield County	09	1020EST			0	0	4	0	Thunderstorm Wind
									A thunderstorm felled several trees in and north of Lancaster and flipped over a plane at the Fairfield County Airport.
Perry County	09	1102EST			0	0	4	0	Thunderstorm Wind
									Trees were knocked over by a thunderstorm at Junction City.
Pike County	11	1230EST			0	0	4	0	Thunderstorm Wind
									A thunderstorm dropped several trees, mainly in the Lake White area.
Hamilton County	11	1411EST			0	0	4	0	Thunderstorm Wind
									A thunderstorm caused scattered structural damage across the county.
Montgomery County	11	1600EST			0	0	4	0	Thunderstorm Wind
									A thunderstorm toppled trees in Butler Township.
Richland County	11	1600EST			1	2	0	0	Lightning
									Lightning struck 3 boys playing baseball near Lucas. One who was carrying an aluminum bat was killed, while the others suffered minor injuries, M140.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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					KILLED	INJURED	PROPERTY	CROPS		
OHIO										
Muskingum County	11	1615EST			0	0	4	0		Thunderstorm Wind
			A thunderstorm knocked over several trees at scattered locations in the county. Most of the damage was in New Concord.							
Licking County	11	1625EST			0	0	4	?		Hail (2.0)
			Large hail was observed 2 miles east of New Albany.							
Delaware County	11	1700EST			0	0	3	?		Hail (1.0)
			Large hail fell northeast of the city of Delaware.							
Holmes County	11	1710EST			0	0	4	0		Thunderstorm Wind
			A thunderstorm felled trees north and northwest of Millersburg.							
Franklin County	11	2114EST			0	0	4	0		Thunderstorm Wind
			Trees were destroyed by a thunderstorm in Columbus.							
Preble County	12	1407EST	.1	75	0	0	4	0		Tornado (F2)
			A tornado struck and deroofed a house near West Elkton.							
Hamilton County	12	1505EST			0	0	4	0		Thunderstorm Wind
			A thunderstorm toppled several trees at scattered locations in the county.							
Fairfield County	12	1705EST			0	0	4	0		Thunderstorm Wind
			A thunderstorm produced 60 to 70 mile an hour winds in Amanda, causing structural damage.							
Defiance County	12	1732EST	3.3	75	0	0	6	5		Tornado (F2)
			A tornado set down about 3 miles south of Defiance. It traveled southeast and lifted when it was about 2 miles southwest of Ayersville. Two fixed homes, a mobile home and a barn were destroyed. Six other homes suffered severe damage and lighter damage occurred to an additional 30 structures.							
Paulding County	12	1738EST			0	0	4	0		Thunderstorm Wind
			A thunderstorm damaged a house and destroyed trees in Arthur.							
Henry County	12	1750 EST			0	0	3	0		Thunderstorm Wind
			A thunderstorm severely damaged a farm building about 1 mile south of Hamler.							
Hancock County	12	1830EST			0	0	4	0		Thunderstorm Wind
			A thunderstorm felled trees at several locations in the county.							
Delaware County	12	1915EST			0	0	3	0		Hail (1.67)
			Large hail fell in the area of Delaware Dam.							
Putnam County	12	1920EST			0	0	4	0		Thunderstorm Wind, Hail (1.0)
			A thunderstorm destroyed trees at several locations and dropped large hail on Continental.							
Wood County	16	0020EST			0	0	3	0		Hail (.75)
			Large hail fell on North Baltimore.							
Fairfield County	20	1330EST			0	0	3	0		Thunderstorm Wind
			A thunderstorm partially deroofed a barn and destroyed at least 6 trees. The damage occurred about 3 miles southwest of Lancaster.							
Adams County	20	1530EST			0	0	4	0		Thunderstorm Wind
			Trees were felled by a thunderstorm at Mineral Wells.							
Belmont County	20	1550EST			0	1	4	0		Thunderstorm Wind, Lightning
			A thunderstorm destroyed trees and downed wires at St. Clairsville. A woman was injured in St. Clairsville when lightning struck and burned her while she was standing in a pool of water.							
OHIO										
Monroe County	20	1600EST			0	0	4	0		Thunderstorm Wind
			A thunderstorm dropped trees and wires at Woodfield and Lewisville.							
Williams County	25	1720EST			0	0	4	0		Thunderstorm Wind
			Trees were destroyed by a thunderstorm 3 miles south of Bryan.							
Defiance County	25	1724EST			0	0	5	0		Thunderstorm Wind
			Sixty mile an hour winds destroyed trees and power lines in the city of Defiance. Several outbuildings were destroyed across the county.							
Fulton County	25	1730EST			0	0	4	0		Thunderstorm Wind
			A thunderstorm destroyed several trees in Archbold.							
Henry County	25	1745EST			0	0	5	0		Thunderstorm Wind
			A thunderstorm deroofed a machine shop and caused other structural damage in Napoleon and Liberty Center.							
Van Wert County	25	1800EST			0	0	4	0		Thunderstorm Wind
			A thunderstorm produced winds of up to 60 miles an hour at scattered locations in the county. A barn was deroofed and several trees were felled.							
Wood County	25	1800EST			0	0	4	0		Thunderstorm Wind
			A thunderstorm destroyed trees in Bowling Green.							
Lucas County	25	1810EST			0	0	4	0		Thunderstorm Wind, Hail (1.0)
			A thunderstorm toppled trees and produced large hail in southwest Toledo.							
Wood County	25	1835EST			0	0	4	0		Thunderstorm Wind
			A thunderstorm in Milton Center destroyed trees and power lines.							
Paulding County	25	1845EST			0	0	4	0		Thunderstorm Wind
			Trees were knocked over by a thunderstorm in Antwerp.							
Auglaize County	25	1900EST			0	0	4	0		Thunderstorm Wind
			A thunderstorm destroyed trees at scattered locations in the county.							
Ottawa County	25	1945EST			0	0	4	0		Thunderstorm Wind
			A thunderstorm produced winds of 62 miles an hour at the Marblehead Coast Guard station.							
Marion County	25	2020EST			0	0	4	0		Thunderstorm Wind
			A thunderstorm dropped trees at scattered locations in the county.							
Darke County	25	2030EST			0	0	4	0		Thunderstorm Wind
			Trees and poles were toppled by a thunderstorm in the southern parts of the county.							
Lorain County	25	2032EST			0	0	4	0		Thunderstorm Wind
			A thunderstorm destroyed a number of trees in Avon.							
Cuyahoga County	25	2050EST			0	0	4	0		Thunderstorm Wind
			A thunderstorm destroyed trees and power lines in Fairview Park and Lakewood, and caused damage at a festival in downtown Cleveland.							
Trumbull County	28	2119EST			0	0	4	0		Thunderstorm Wind
			A thunderstorm destroyed at least 4 trees in Brookfield.							

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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	
34 OKLAHOMA									
Garfield County	06	1920CST			0	0	5	?	Wind
Garfield County	06	1945CST			0	0	4	?	Wind
Beckham County	06	2130CST			0	0	5	?	Wind
Thunderstorms produced strong winds which downed power poles, uprooted trees, and damaged several outbuildings. Woodring Airport near Enid reported 98 mph winds which damaged several hangars and two airplanes, the damage estimated at \$50,000. A roof was taken off of a school in Garber, resulting in damage of \$20,000. A museum in Elk City lost its roof, and a wall to an auto dealer was caved in; the total damage estimated at \$60,000.									
Beckham County	07	0100-0400CST			0	0	4	?	Flash Flooding
Heavy rains up to 5 inches fell in a few hours, causing Elk Creek to flood. Several county roads were badly washed out, and a mobile home park had to have 35 people evacuated for a few hours. Damage estimated at \$30,000 occurred.									
Key County	12	1929CST			0	0	?	?	Hail (0.88)
Woodward County	12	1930CST			0	0	?	?	Hail (0.88)
Major County	12	1934CST			0	0	?	?	Hail (0.88)
Osage County	12	2000CST			0	0	?	?	Hail (0.75)
Key County	12	2030CST			0	0	?	?	Hail (1.75)
Nowata County	12	2032CST			0	0	?	?	Tstm. Wind
Craig County	12	2058CST			0	0	?	?	Tstm. Wind
Ottawa County	12	2105CST			0	0	?	?	Tstm. Wind
Key County	12	2123CST			0	0	?	?	Hail (1.25)
Mayes County	12	2130CST			0	0	?	?	Tstm. Wind
Delaware County	12	2130CST			0	0	?	?	Tstm. Wind
Noble County	12	2145CST			0	0	?	?	Tstm. Wind
Key County	12	2155CST			0	0	?	?	Hail (1.00)
Rogers County	12	2215CST			0	0	?	?	Tstm. Wind
Thunderstorms produced winds of 60 to 80 mph, downing power poles and lines, uprooting trees, and damaging houses, barns and outbuildings. Hail ranging from 3/4 inch to half dollar size also fell.									
Beaver County	19	1945CST			0	0	?	?	Tstm. Wind
Woodward County	19	2055CST			0	0	?	?	Tstm. Wind
Woodward County	19	2112CST			0	0	?	?	Hail (0.75)
Thunderstorms produced winds up to 70 mph and 3/4 inch size hail.									
Pottawatomie County	22	1315CST			0	0	?	?	Tstm. Wind
Garfield County	22	1325CST			0	0	?	?	Tstm. Wind
Noble County	22	1505CST			0	0	5	?	Tstm. Wind
Thunderstorms produced winds of 60 to 80 mph, damaging trees, power lines and buildings. \$50,000 damage was done to a farm near Perry.									
Kiowa County	25	1600CST			0	0	4	?	Tstm. Wind
A thunderstorm produced winds up to 70 mph near Mountain View, causing \$15,000 damage to a barn and house.									
Canadian County	26	1500CST			0	0	5	?	Tstm. Wind
A microburst occurred over Mustang, producing over 90 mph winds. Widespread damage occurred with estimated damage of \$150,000.									
Woodward County	31	1405CST			0	0	?	?	Hail (0.75)
Devey County	31	1450CST			0	0	?	?	Hail (1.75)
Devey County	31	1515CST			0	0	?	?	Hail (0.75)
Custer County	31	1520CST			0	0	?	?	Hail (1.00)
Blaine County	31	1520CST			0	0	?	?	Hail (1.75)
Canadian County	31	1540CST			0	0	4	?	Tstm. Wind
Caddo County	31	1545CST			0	2	5	?	Tstm. Wind
Canadian County	31	1547CST			0	0	?	?	Hail (0.75)
Okfuskee County	31	1548CST			0	0	?	?	Hail (0.75)
McClain County	31	1600CST			0	0	?	?	Hail (0.75)
Grady County	31	1605CST			0	0	?	?	Hail (0.88)
Cleveland County	31	1615CST			0	0	?	?	Hail (1.00)
McClain County	31	1630CST			0	0	?	?	Hail (0.75)
Caddo County	31	1630CST			0	0	?	?	Hail (0.75)
Grady County	31	1635CST			0	0	?	?	Tstm. Wind
Cleveland County	31	1648CST			0	0	?	?	Hail (0.88)
Pottawatomie County	31	1715CST			0	0	?	?	Hail (1.75)
McClain County	31	1715CST			0	0	?	?	Hail (1.00)
Pontotoc County	31	1725CST			0	0	?	?	Tstm. Wind
Pottawatomie County	31	1730CST			0	0	?	?	Hail (0.88)
Garvin County	31	1731CST			0	0	?	?	Tstm. Wind
Pottawatomie County	31	1740CST			0	0	?	?	Hail (0.75)
Thunderstorms produced winds up to 80 mph and hail ranging from 3/4 inch to 1 3/4 inches. Part of a roof was blown off of a gas station and several mobile homes were damaged in western Canadian County, the damages estimated at \$30,000. Nearly \$100,000 damage was done in Hinton as 3 mobile homes were damaged and two destroyed. Two people were injured in a mobile home at Hinton.									

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	
35 OREGON									
ORZ002-004	04	0300-0500PST			0	1	4		High Wind
36 PENNSYLVANIA, Eastern									
Lycoming and Sullivan Counties	13	1330 EST	17	100	0	0	4	0	Tornado (F1)
By county:									
Lycoming		1330 EST	8	100	0	0	4	0	(F1)
Sullivan		1400 EST	9	100	0	0	3	0	(F1)
A tornado touched down near Hughesville in Lycoming County around 2:30 PM EDT, taking shingles off a house, knocking down its chimney, and destroying a utility shed next door. Near Straw-bridge, Lycoming County, a mobile home was destroyed and minor damage was done to a home, a sawmill, and a store. The tornado continued to near Muncy Valley and to a point between Eagles Mere and Forksville in Sullivan County. Trees were downed all along the path.									
Bucks County	13	1845 EST			0	0	4	0	Lightning
A lightning-caused fire resulted in extensive damage to a house in Bensalem Township.									
Lancaster County	18	0130 EST			0	0	4	0	Lightning
Berks County	18	1630 EST			0	0	4	0	Thunderstorm, Wind
Cumberland County	18	1645 EST			0	0	3	0	Thunderstorm, Wind
York County	18	1810 EST			1	15	5	0	Thunderstorm, Wind
Thunderstorms moving across southern Lancaster County caused lightning fires in a house and a barn. The barn was completely destroyed. Wind gusts also downed some tree limbs and at least one tree, damaged some farm buildings, and rolled over a mobile home. Thunderstorm wind gusts near Birdsboro in Berks County tore a large portion of the roof off a high school. Rain coming through the opening in the roof damaged ceiling materials and electrical equipment. Thunderstorm winds brought down numerous trees in the vicinity of Mechanicsburg, Cumberland County. There also was an unconfirmed report of a funnel cloud. In York County, wind gusts measured at 75 to 80 MPH caused extensive damage to boats and docks at the Codorus State Park Marina. A man drowned after being caught on the lake in a sailboat when the storm hit. On the other side of York County, wind gusts downed several large tepees at a summer camp near Wrightsville around 6:30 PM EDT, injuring 15 people. Small hail was reported in York County around 6:24 PM EDT and in Perry County around 5:05 PM EDT. In Chester County, wind gusts to 50 MPH around 6:00 PM EDT brought down power lines and tree limbs on top of a pickup truck near Honey Brook and ripped siding off a home near Lyndell.									
Montgomery County	19	0100EST			0	0	?	0	Hail (1.75)
Montgomery County	19	0105EST			0	0	?	0	Thunderstorm Wind
Delaware County	19	0110EST			0	0	?	0	Thunderstorm Wind
Philadelphia County	19	0115EST			0	0	?	0	Hail (0.75)
Thunderstorms moved across Southeastern Pennsylvania in the early morning hours. Golfball size hail fell at Bridgeport, Montgomery County at around 2 AM EDT. Four or five large trees were blown down in Wynwood, Montgomery County at 2:05 AM EDT. Numerous trees were blown down in Haverford, Delaware County at about 2:10 AM EDT. In the Chestnut Hill section of Philadelphia, 3/4 inch hail fell at about 2:15 AM EDT.									
Adams County	20	1630EST			0	0	4	0	Lightning
Cumberland County	20	1645EST			0	0	3	0	Thunderstorm Wind
Lancaster County	20	1700EST			0	0	5	0	Lightning
Thunderstorms moving across the Lower Susquehanna Valley were accompanied by considerable lightning. In Adams County, lightning caused fires in several homes and ignited a fire that destroyed a barn near Littlestown. In Conestoga Township, Lancaster County, lightning caused a fire that destroyed a barn, a tobacco shed, and a milk house. Throughout the area, gusty winds and lightning strikes brought down small tree limbs, some small trees, and utility lines. Over 20,000 customers had power outages. In the Sunbury area of Northumberland County, small hail was reported at 3:55 PM EDT. In the Newport area of Perry County, pea size hail was reported at around 3:59 PM EDT. In Adams County, 1/2 inch hail was reported at around 4:30 PM EDT. Near Pine Grove Furnace State Park in Cumberland County, numerous trees were downed, bringing down power lines.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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	

PENNSYLVANIA, Eastern

Lancaster County	26	1630EST			0	0	6	3	Flash Flood
Lancaster County	26	1945EST			0	0	5	0	Lightning
Berks County	26	1950EST			0	0	?	0	Hail (1.00)
Lancaster County	26	1950EST			0	0	?	0	Thunderstorm Wind
Chester County	26	2315EST			0	0	5	0	Lightning

Thunderstorms which continued over the northwest part of Lancaster County for several hours produced heavy downpours. Rainfall amounts of 5 to 10 inches and possibly more caused rapid flooding on several streams. The Little Chickies Creek and the Little Conestoga Creek caused the most extensive flooding. Roadways were damaged by flooding and at least one bridge was washed out. Some evacuations were necessary as homes, apartments, and many commercial buildings were flooded. Water reached a depth of 4 feet in some buildings. Dozens of people had to be rescued as rapidly rising water trapped them in buildings and automobiles. A number of automobiles were washed into streams, resulting in harrowing rescues of people from the swollen streams. Some livestock drowned when they were washed away by flood waters. Three teenage boys were swept away and drowned when they attempted to swim in a still swollen stream on the following day. Lancaster Airport recorded thunderstorm wind gusts of up to 63 mph at 8:50 PM EDT. Lightning caused fires in numerous buildings. The most serious fires destroyed two barns. One barn near East Petersburg in Lancaster County was destroyed, resulting in the loss of much equipment and the death of 125 pigs. The other destroyed barn was just south of West Grove in Chester County. Heavy thunderstorm rain also caused drainage and small stream flooding in portions of Chester, Berks, Lebanon, and Northumberland Counties, and in other portions of Lancaster County. Small hail was reported in Chester County, as was 1 inch hail and some uprooted trees near Shillington in Berks County.

Dauphin County	29	1208EST			0	0	?	0	Hail (1.50)
Dauphin County	29	1235EST			0	0	?	0	Thunderstorm Wind
Northampton County	29	1330EST			0	0	?	0	Hail (1.00)
Northampton County	29	1346EST			0	0	?	0	Hail (1.75), Thunderstorm Wind
Dauphin County	29	1450EST			0	0	?	0	Hail (0.75)

Hail the size of ping pong balls and heavy rain were reported between Hershey and Palmyra, and between Hershey and Lingiestown in Dauphin County shortly after 1 PM EDT. Wind gusts brought down trees in Walthenville, Dauphin County at 1:35 PM EDT. Within the next hour or so, thunderstorms over Northampton County uprooted trees and dropped golfball size hail around Nazareth, and dropped 1 inch hail around Walnutport. In the early evening, thunderstorm wind gusts tore parts of the roof and a wall off a building near Quakertown in Bucks County, but the building had a large opening in the wall before the storm hit. Penny size hail fell from a thunderstorm just to the east of Harrisburg at around 3:50 PM EDT.

36 PENNSYLVANIA, Western

Beaver County	08	1140-1315EST			0	0	5	0	Funnel Cloud, Thunderstorm Wind, Hail, and Lightning
			A funnel cloud over Baden moved northeast. Winds blew portions of roofs off in Monaca and Monaca Heights. Three cars in Baden were damaged as trees split by lightning fell on them. A chimney was knocked down in Center Township by a lightning strike. At 1149EST, trees were uprooted in Hopewell, Rochester, and Aliquippa. At 1315EST, golfball size hail fell at Aliquippa.						
Allegheny County	08	1150EST			0	0	0	0	Thunderstorm Wind
			Power lines were downed in Tarentum, and large trees were downed in Edgeworth.						
Beaver County	08	1500-1520EST			0	0	4	0	Thunderstorm Wind
			A house trailer was moved one block by thunderstorm wind in Hookstown. Power lines and trees were downed in Hookstown and Center.						
Westmoreland County	08	1530EST			0	0	0	0	Thunderstorm Wind
			Large trees were downed in Penn Township near Jeannette.						
Fayette County	08	1538EST			0	0	3	0	Lightning
			A Conellsville car wash was struck by lightning, heavily damaging the service entrance. Basement flooding occurred in North Huntingdon. A landslide occurred along a hill at Shafton.						
Westmoreland County	08	1550EST			0	0	4	0	Thunderstorm Wind
			A roof was blown off a trailer in Lloydville near Latrobe.						
Venango County	08	1645EST			0	0	0	0	Thunderstorm Wind
			Trees were downed in Franklin and 5 to 10 miles to its east.						

PENNSYLVANIA, Western

Lawrence County	08	1830EST			0	0	3	0	Lightning
			Lightning struck a TV antenna on a home in New Castle, blew a small hole in the side of the house, and knocked off part of a window-sill.						
Westmoreland County	08	1900EST			0	0	4	0	Lightning
			A Donegal barn was destroyed when lightning started a fire.						
Beaver County	08	1955-2010EST			0	0	0	0	Thunderstorm Wind
			Power lines were downed in Big Beaver Boro, Franklin Township, and Ellwood City.						
Butler County	08	2000-2015EST			0	0	0	0	Thunderstorm Winds
			Power lines and large trees were downed in Penn, Buffalo, and Winfield Townships in the southeast part of the county.						
Westmoreland County	08	Late night- Early morning			0	1	5	0	Flood
			A three to four inch rainfall occurred over a fifteen hour period, causing Brush Creek to go over its banks at Shafton, Irwind, and Manor. Roads were under water at Hempfield, and a mudslide occurred near Ligonier. Basement flooding occurred at North Huntingdon and Greensburg. At 0345EST, the roof of a house trailer collapsed due to water accumulation, injuring one occupant.						
Allegheny County	09	Early morning			0	0	0	0	Flood
			Flooding caused road closings in the South Hills of Pittsburgh.						
Washington County	11	1852EST			0	0	4	0	Lightning
			Moderate damage was done to a church steeple in Washington when it was struck by lightning.						
Butler County	12	Early morning			0	0	4	0	Flood
			A family in Forrestville evacuated when a nearby creek overflowed, causing a cellar wall to collapse.						
McKean County	18	0300EST			0	0	5	0	Flood
			Four inches of rain in four hours caused flooding of Cole Creek. Smethport and Bradford area roads were closed, and some basement flooding occurred in East Smethport. Forty homes were evacuated along Potatoe Creek, and one family was rescued from a flooded mobile home in Farmers Valley. Derrick City reported that roads were covered by water two feet deep.						
McKean County	18	0945EST			0	0	0	0	Thunderstorm Wind
			Trees and lines were downed at Port Allegany and between Smethport and Eldred.						
Warren County	18	2130-2200EST			0	0	0	0	Thunderstorm Wind
			Trees were uprooted and power lines were downed in Youngsville, Wrightsville, and Columbus.						
Jefferson County	18	2215EST			0	0	5	0	Lightning
			A Brookville church was destroyed when lightning started a fire.						
Forest County	18	2230EST			0	0	0	0	Thunderstorm Wind
			Trees and power lines were downed in West Hickory.						
Erie County	18	2251EST			0	0	0	0	Thunderstorm Wind
			Large trees were downed in the Waterford area.						
Warren County	19	0000-0230EST			0	0	6	0	Flash Flood
			A dam in Panama, New York, ten miles north of the Pennsylvania border, overflowed in the early morning after rains in excess of five inches in four hours fell. This caused flooding downstream along Brokenstraw Creek in Lottsville, Wrightsville, Pittsfield, and Youngsville. Stillwater Creek in Sugar Grove rose 12 to 14 feet over a three hour period. Over a dozen bridges were washed out. Twenty-five families were evacuated at Wrightsville. One million dollars in damage occurred in Sugar Grove alone.						
Cambria County	19	0015-0030EST			0	0	0	0	Thunderstorm Wind
			Large trees and power lines were downed in Nanty Glo and Revloc.						
Crawford County	19	0017EST			0	0	4	0	Lightning
			A Spartanburg house was set on fire by lightning.						

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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					KILLED	INJURED	PROPERTY	CROPS	
— PENNSYLVANIA, Western									
Armstrong County	19	1308EST			0	0	0	0	Thunderstorm Wind
									Trees were downed in Manor Township near Ford City.
Westmoreland County	19	1315EST			0	1	4	0	Lightning, Thunderstorm Wind
									Moderate damage was done to a house in East Huntingdon when it was struck by lightning. In Mount Pleasant, a lightning strike did minor damage to a senior citizen home, and trees were downed by thunderstorm wind. A man in Donegal was injured by a lightning strike as he was repairing a TV set.
Fayette County	19	1455EST			0	0	3	0	Lightning, Thunderstorm Wind
									In Connellsville, a lightning strike blasted a 12 x 6 inch hole in a church steeple. Trees were downed in Luzerne (12 miles northwest of Uniontown) and Wharton (10 miles southeast of Uniontown).
Warren County	20	1025EST			0	1	0	0	Lightning, Thunderstorm Wind
									A Clarendon man was struck by lightning and knocked unconscious as he was standing on a ladder. Large trees and power lines were downed between Russell and north Warren.
Crawford County	20	1030EST			0	0	0	0	Hail
									Large hail fell at Centerville.
Venango County	20	1200-1325EST			0	0	3	0	Thunderstorm Wind, Hail (0.75)
									Large trees and power lines were downed at Cranberry and President, and between south Franklin and Oil City. Trusses and a back wall were torn from a machinery barn in Kennerdell by thunderstorm wind. Three-quarter inch hail fell 25 miles east of Titusville.
Elk County	20	1245EST			0	0	0	0	Thunderstorm Wind
									Trees and power lines were downed in the vicinity of Ridgeway, and between St. Marys and Weedville.
McKean County	20	1300EST			0	0	0	0	Thunderstorm Wind
									Trees were downed in Kane.
Cameron County	20	1300EST			0	0	0	0	Thunderstorm Wind
									Trees and power lines were downed between Emporium and Sinne Mahoning.
Forest County	20	1315EST			0	0	0	0	Thunderstorm Wind
									Trees and power lines were downed in Mayburg.
Jefferson County	20	1326-1430EST			0	0	3	0	Thunderstorm Wind
									Trees were downed in Brookville and Reynoldsville, and small buildings were damaged in Dubois.
Clarion County	20	1330-1430EST			0	0	3	0	Thunderstorm Wind, Lightning
									Lightning damaged a garage in the Knox area. Trees were downed in West Freedom and Rimersburg.
Butler County	20	1337-1400EST			0	0	0	0	Funnel Cloud, Thunderstorm Wind
									A funnel cloud moving southeast was reported at Moraine State Park. Large trees were downed in Cranberry, Slippery Rock, and Mars.
Armstrong County	20	1340-1445EST			0	0	0	0	Thunderstorm Wind
									Trees were downed and power outages occurred in Apollo, Leechburg, Mahoning, Parker, and Freeport.
Allegheny County	20	1421EST			1	0	0	0	Lightning, Thunderstorm Wind
									A player was struck by lightning during a softball game in McCandless, and died later at a hospital. Winds with gusts of up to 60 mph were reported during thunderstorms in the eastern part of the county. Trees were downed throughout the county, including Coraopolis, Ben Avon Heights, Tarentum, Harmarville, and Cheswick.
Clearfield County	20	1430EST			0	0	0	0	Thunderstorm Wind
									Trees were downed in Clearfield, and power lines were downed in Curwinstown.
— PENNSYLVANIA, Western									
Westmoreland County	20	1500-1600EST			0	0	4	0	Thunderstorm Wind
									At Idlewild Park near Ligonier, high winds estimated at 65 to 70 mph knocked down trees onto cars, damaging twenty-five. A mudslide closed Route 30 in Ligonier. Trees were downed and power outages occurred in Hempfield and north Huntingdon Township west of Greensburg, and also in Allegheny, Washington, and Loyallhanna Townships in the northern part of the county.
Cambria County	20	1518-1600EST			1	5	0	0	Lightning, Thunderstorm Wind
									One person was struck and killed by lightning and five others were injured as they were standing in a shelter in Nanty Glo Park. Trees were downed throughout the county. W220
Indiana County	20	1521EST			0	0	4	0	Lightning
									Lightning destroyed commercial garages in Blacklick.
Washington County	20	1550EST			0	0	4	0	Thunderstorm Wind
									A roof was blown off of an apartment building in Monongahela.
Greene County	20	1600EST			0	0	4	0	Thunderstorm Wind
									Thunderstorm winds caused severe damage to a commercial building in Waynesburg. A large hole was left in the top floor of the building.
Somerset County	20	1641EST			0	0	0	0	Thunderstorm Wind
									Power lines were downed in the northern part of the county.
Mercer County	26	0030EST			0	0	2	0	Thunderstorm Wind
									Large trees were sheared halfway down. Shingles were torn off roofs of homes in Sandy Lake. The wind was estimated at 60 mph by National Weather Service personnel.
Indiana County	26	0157EST			0	0	5	0	Lightning
									A two story building was set ablaze and destroyed by lightning in Commodore.
Allegheny County	26	0200EST			0	0	5	0	Lightning
									A Baldwin Boro building was destroyed by a lightning-induced fire.
Greene and Washington Counties	29	0100EST			0	0	0	0	Thunderstorm Wind
									Power lines and large trees were downed through both counties.
Fayette County	29	0200EST			0	0	0	0	Thunderstorm Wind
									Power lines and trees were downed in Connellsville.
37 RHODE ISLAND									
Kent County, upper Narragansett Bay	03	1603-1613EST	0.5-1.0	25	0	0	0	0	Waterspout
									A waterspout, not accompanied by a thunderstorm, formed a short distance (a mile or less) offshore of Warwick. The waterspout was visible from the National Weather Service Office at T.F. Green Airport, and also from Bristol and Barrington. It moved slowly in a generally southeasterly direction and dissipated after about 10 minutes. The National Weather Service issued a tornado warning for Bristol and Mt. Hope Bay. Local residents and boaters were alarmed, but no damage or injuries occurred.
Washington and Newport Counties	29	Evening			0	4	4	0	Lightning, Hail, and Heavy Rain
									Very slow-moving, heavy thunderstorms brought intense lightning, hail, and heavy rain to portions of Washington and Newport Counties. Four soccer players were injured, one seriously, when lightning struck on a playing field in Newport. A man was electrocuted to death when he stepped on a fallen wire in Wakefield. In Narragansett, half inch hail was reported and bolts of lightning blew holes in two houses. Heavy rain and street flooding caused road washouts in Wakefield. Some residents said that the lightning was the worst in their memory. The slow-moving storms lingered in the area for over two and a half hours. About 6,000 electric customers lost power due to the storms.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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	

38 SOUTH CAROLINA

Spartanburg County, Spartanburg	2	1400EST			0	0	2	2	Wind
Several minor auto accidents occurred and power was disrupted to 350 customers in the Camp Croft, Whitney, Paolet and Heaton traffic circle areas. One tree was downed in the back yard of a home in the Rosewood subdivision.									
Greenwood County, Greenwood	2	1545EST			0	0	4	0	Wind
Thunderstorm winds felled trees, disrupting power to 1000 customers. Several homes and cars were damaged in Greenwood.									
Saluda County, Saluda	2	1547EST			0	0	4	0	Wind
Trees and signs were blown down in Saluda.									
Richland County, Ballentine	2	1614EST			0	0	3	0	Wind
Near Ballentine, large trees and a metal building were blown down.									
Lexington County, Chapin	2	1630EST			0	1	3	0	Wind
Winds blew a tree on a car, injuring one person. 2500 people were affected by power outages near Chapin.									
Florence County, Florence	2	1810EST			0	0	4	0	Wind
In Florence, wind blew down several trees, causing 2700 power outages. Several homes were damaged by falling trees. A TV transmitter was knocked out for at least 3 hours.									
Marion County, near Marion	2	1810EST			0	0	4	4	Wind
Large trees and limbs were downed 22 miles ESE of Florence.									
Dillon County, 5 miles W of Latta	2	1818EST			0	0	4	4	Wind
Large trees were downed near Latta at the junction of SC 917 and SC 38.									
Beaufort County, Hilton Head Island	5	1200EST			0	0	3	0	Urban Flooding
Lightning struck a large home on Hilton Head. Also, urban flooding at South Forest Beach was reported.									
Richland County, 7 miles NE of Columbia	8	1530EST			0	1	5	0	Wind
Winds almost destroyed the Lin Rick Golf Club Pro-Shop 7 miles NE of Columbia. They also damaged several automobiles. One person was seriously injured.									
Fairfield County, Winnsboro	8	1750EST			0	0	2	4	Hail (.75)
Marble size hail and strong winds were reported at Winnsboro.									
Pickens County	9	1530EST			1	0	0	0	Heat
Charles Nix (52 yr) died from heat stroke after walking 5 miles.									
Charleston County	10	Unk			1	0	0	0	Heat
Naomi Washington (F-48) died from heat stress.									
Richland County, Ballentine	10	Unk			0	0	2	0	Wind
Ballentine had hail and trees down.									
York County, Rock Hill	10	1230EST			0	0	2	0	Wind
Wind blew down trees, breaking power lines and stopping traffic in Rock Hill.									
Charleston County, Mt. Pleasant	10	1615EST			0	0	2	0	Wind
Wind blew down several trees in Mt. Pleasant.									
Horry County, North Myrtle Beach	10	1400EST			0	0	5	0	Wind
Winds blew a roof off a home on 77th Avenue in North Myrtle Beach.									
Clarendon County	11	Unk			1	0	0	0	Heat
Susan Isaac (F-72) died from heat prostration.									
York County	11	Unk			1	0	0	0	Heat
Henry Blackmon (M-78) died from heat stress.									
Horry County	13	Unk			1	0	0	0	Heat
Coleman McNeil (M-71) died from heat stress.									
Sumter County, Dazell	14	1600EST			0	0	2	2	Wind
At Dazell, winds blew down trees and lightning damaged an office.									
Lexington County, Lake Murray area	14	1630EST			0	0	4	0	Wind
Near Draper Island at Lake Murray, wind uprooted or broke off 15-20 large trees, 8 inches to 3 1/2 ft. in diameter and caused other minor damage.									
Aiken County, Aiken	14	1700EST			0	0	4	0	Wind
3,000 people were affected by power outages in Aiken due to thunderstorm winds.									
Florence County, Between Lake City and Johnsonville	14	1732EST			0	0	2	0	Wind
Winds blew large trees across Highway #341 between Lake City and Johnsonville. Also, hail occurred near Pamlico.									
Florence County, Johnsonville	14	1740EST			0	0	2	2	Hail (0.75)
Pickens County: Pumpkintown, Duchsiville, and Pickens	14	1917EST			0	0	2	0	Wind
Several large trees were blown down.									

SOUTH CAROLINA

Pickens County, 2 miles W of Pickens	14	1918EST			0	0	2	0	Wind
Wind blew the roof off a building and also knocked down several trees.									
Greenville County, Simpsonville	14	2017EST			0	0	3	0	Wind
Wind blew the roof off a garage and also caused tree damage in Simpsonville.									
Greenville County, 5 miles south of Greenville	15	1410EST			0	0	2	0	Wind
5 miles south of Greenville, winds blew down trees and damaged roofs.									
Cherokee County, Gaffney	15	1604EST			0	0	5	0	Winds
At Gaffney, winds damaged roofs to mini ware-houses. They blew down power lines as well.									
Richland County, Columbia	16	1530EST			0	0	2	0	Hail (.25)
Pea-size hail in Forest Acres area was reported.									
Richland County, Columbia	16	1700EST			0	0	2	0	Urban Flooding
1,500 people were affected by power outages caused by winds or lightning. Urban flooding occurred on Whaley Street in Columbia. Lightning struck an electrical meter at a gas station along Bluff Road, near the Farmer's Market.									
Berkeley County	18	Unk			1	0	0	0	Heat
Glady's Collins (F-64) died from heat stress.									
Greenwood County	19	Unk			1	0	0	0	Heat
Iris Smith (M-70) died from heat stress.									
Lee County	19	Unk			1	0	0	0	Heat
Pert Ramson (M-44) died from heat stress.									
Greenwood County, Greenwood	19	1530EST			0	0	2	0	Wind
Small hail fell. Limbs and trees were knocked down. One tree at least 86 years old was felled at the home of James Wilson on SC 254 near Greenwood.									
Barnwell County	20	Unk			1	0	0	0	Heat
Estell Hagood (F-83) died from heat stress.									
Charleston County	20	Unk			1	0	0	0	Heat
James Davis (M-42) died from heat stress.									
Charleston County, Charleston	21	1330EST			0	1	3	0	Winds
Utility pole on Dorcher Road snapped near its base, causing the current from the broken power line to ignite a tree. A 10 x 30 ft. construction trailer toppled, causing injury to the man inside.									
Berkeley County, Goose Creek Area	21	1400EST			0	0	2	0	Hail (.375)
3/8 inch hail fell in Goose Creek area of Berkeley County.									
Hampton County, Estill	21	1520EST			0	0	4	0	Wind
Thunderstorm winds destroyed a mobile home and overturned another. Wind and hail damaged the roof of a photo shop and saw mill.									
Florence County, Florence	21	1545EST			0	0	4	2	Wind
Thunderstorm winds blew over a 100 foot tower and disrupted power to 2000 customers.									
Horry County, Myrtle Beach	21	1630EST			1	0	3	0	Wind
Winds turned over a boat, causing one drowning. 19,000 people were affected by various power outages, caused by lightning strikes of power lines at the Chestnut Hill and Crescent Hill Power substations.									
York County, York area	21	2015EST			0	0	2	0	Winds
150 customers were without power due to thunderstorm winds.									
Chester County	21	2015EST			0	0	2	0	Lightning
150 customers were affected by a power outage caused by lightning and winds.									
Charleston County, Johns Island	22	1400EST			0	0	4	0	Wind
Heavy tree damage occurred along Chesolm Road. A tractor and boat were also damaged.									
Anderson County, NW of Anderson	22	1605EST			0	0	2	0	Wind
Wind blew several large trees down between Anderson and I-85.									
Richland County	23	Unk			1	0	0	0	Heat
Helen Gordon (F-72) died from heat stress.									
Beaufort County, Hilton Head Island	23	Unk			0	0	0	0	Heat
Approximately 400 fish died of low water levels and extreme heat.									
Aiken County, Aiken Area	23	1500EST			0	0	4	0	Lightning
Two horses died after lightning hit a tree where they had sought shelter.									

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					KILLED	INJURED	PROPERTY	CROPS	

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SOUTH CAROLINA

Anderson County, Anderson Area	23 1500EST	0	0	5	0	Lightning	Lightning set a barn and house on fire, in separate locations. Sandy Springs to 10 miles S. of Anderson was where the lightning generally occurred.		
Richland County, Columbia	25 1500EST	0	0	2	0	Wind	Thunderstorm winds blew down several trees and damaged roofs of several homes.		
Dorchester County	25 1500EST	0	0	2	0	Lightning	Lightning struck a cupola on top of the Summerville Town Hall.		
York County	25 1730EST	0	0	2	0	Lightning	Lightning struck a tree which crushed a car.		
Spartanburg County, Roebuck	23 2100EST	0	0	3	0	Lightning	Lightning struck a tree, travelled through the tree and into a fence, and then started fire in a house in Roebuck.		
Greenville County, Honea Path	25 Unk	0	0	5	0	Lightning	Lightning started a fire at the M. Lovenstein Corp. Chiquola Mill in Honea Path.		
Horry County, near Myrtle Beach	26 0100-0400EST	0	0	4	0	Lightning	Lightning struck a TV microwave transmitter.		
Charleston County, Highway 17 S Main (John's Island)	26 1430EST	0.25	30	0	3	4	0	Waterspout/ Tornado (F1)	A tornado, a waterspout that moved inland, damaged several cars, turned over a van, damaged a quick-stop store, and injured 3 people. The tornado crossed US 17 at Main Road on John Island.
Greenville, near Tigerville	26 1810EST	0	0	0	2	Hail (0.75)	Large hail near Tigerville damaged crops.		
Cherokee County, Macedonia	27 Unk	0	0	4	0	Lightning	An unoccupied mobile home was overturned. Lightning started a house fire in Macedonia. Several fire fighters were hospitalized for smoke inhalation.		
Spartanburg County	27 1455EST	0	0	2	0	Wind	An uprooted tree fell across Startex Road near SC 290. A house fire occurred in Cross Anchor.		
Greenville County, Greenville	27 1455EST	0	0	2	0	Lightning	Lightning started a house fire in the Swansgate Retirement Community. Another fire was started in Greenville City.		
Anderson County, 19 miles east of Anderson	27 1615EST	0	0	2	0	Wind	Wind blew down trees and power lines in Honea Path, 19 miles east of Anderson.		
Anderson County, Rohrer Corp.	27 1638EST	0	0	4	0	Lightning	Lightning struck the Rohrer Corp. Plant (printers) and set it ablaze. Plant is located at 1306 George Albert Lake Road.		
Fairfield County, Winnsboro	27 1845EST	0	0	3	0	Wind	At Winnsboro, winds overturned a mobile office building and caused other minor damage.		
Richland County, eastern Columbia	27 1900EST	0	0	3	0	Lightning	In eastern Columbia, lightning struck several homes.		
SC7001-002-003 -004-005-006-007 Statewide	1-31	0	0	7	8	Drought	The most severe drought in South Carolina's history heavily damaged agriculture, and resulted in record low stream levels in western South Carolina. Average monthly temperatures were the highest since the beginning of records.		

39 SOUTH DAKOTA

Hanson County	01 1458 CST	0	0	0	0	High Winds	Thunderstorm winds gusted to 60 MPH at Alexandria.		
Dewey County	03 1615 CST	0	0	0	?	Hail	One and three-quarter inch diameter hail fell two miles south of Isabel.		

SOUTH DAKOTA

SDZ00W Western SD	04- EVE- 05 ERY MRNG	0	0	4	0	High Winds, Lightning	Strong thunderstorm winds damaged a roof of a house fourteen miles west of Belle Fourche (Butte County) at 1650 CST, damaged buildings on a ranch east of Redig (Harding County) at 1730 CST, and tore the siding off a garage and uprooted several trees in Edgemont (Fall River County) at 1740 CST. The strong thunderstorm winds were measured at 60 MPH in Pierre (Hughes County) at 0120 CST, where several trees were uprooted and several buildings were damaged. Lightning caused power outages in the evening in the Newell (Butte County) and Bear Butte (Butte County) areas.		
Pennington County	05 1730 CST	0	0	0	0	Hail	Two inch diameter hail fell in Moon in the western Black Hills.		
Harding and Butte Counties	07 1510- 1600 CST	0	0	3	?	Hail	Hail of unknown size fell from four miles southwest of Redig to two miles east of Redig. A field west of Redig received severe crop damage and a house east of Redig had windows broken and siding damaged by the hail.		
Harding County	10 1426 CST	0	0	0	0	Hail	One inch diameter hail fell in the Redig area.		
Bennett County	10 AFTN	0	0	3	?	Hail	Hail fell in a twenty mile long and one mile wide path from west of Martin to Tuthill. Most of the hail was one-half inch in diameter with some up to one and three-quarter inch in diameter, six miles east of Martin at 1525 CST. A roof at that location was badly damaged. Many crops along the hail path were destroyed.		
SDZ05E Southeast SD	10- EVE- 11 ERY MRNG	0	0	4	?	Hail, High Winds, Heavy Rain, Funnel Cloud	Hail caused extensive crop damage in southern Moody County. Crops were stripped and hail accumulated deep enough to require plows near Lone Tree (Moody County). Most of the hail was small in size, but some hailstones were up to one and three-quarter inches in diameter in Lone Tree at 2115 CST. The hail lasted 90 minutes with the worst damage occurring in a seven mile wide radius from Prairie Junction (Moody County). Strong thunderstorm winds gusted to 61 MPH at Chamberlain between 1853 and 1913 CST, 60 MPH at Wall Lake (Minnehaha County) at 2231 CST, and 60 MPH west of Beresford (Union County) at 2201 CST. The strong winds blew a roof off of a shed and downed power lines in Hurley (Turner County) at 2220 CST. Power was out in Hurley for four and one-half hours. Heavy rain fell over the area, with the largest amounts reported being seven inches in Lone Tree and 4.5 inches in Egan (Moody County). The heavy rainfall caused low-lying areas of Highways 34 and 77 in Moody County to be under water. Some basements in the area were also flooded. Funnel clouds were sighted eight miles west and two miles north of Flandreau (Moody County) at 2015 CST and near the Vermillion exit of Interstate 29 (Union County) at 2230 CST.		
Roberts County	10 2100 CST	0	0	3	0	High Winds	Thunderstorm winds blew over a pole-type building and uprooted trees in Wilmot.		
Brown County	11 LT MRNG- ERY AFTN	0	0	3	?	Hail, Lightning	One and three-quarter inch diameter hail fell two miles east and one mile north of Westport at 1205 CST. Lightning started a small fire in a house in Aberdeen at 1117 CST.		
Marshall County	11 LT EVE	0	0	0	?	Hail	Hail of unknown size fell in an area southwest of Britton, severely damaging crops.		

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— SOUTH DAKOTA													
Brookings County	14	0510-0550 CST			0	0	5	0					High Winds, Heavy Rain
<p>Thunderstorm winds gusted to 91 MPH in the area from Volga to Aurora between 0510 CST and 0550 CST, causing considerable building damage, uprooting trees, and downing power lines. A roof was torn off of an apartment building in Brookings. The worst damage was in the northwest part of Brookings, where many trees were uprooted. Power was out in Brookings for 45 minutes. A farm near Aurora had large trees downed and a calf shelter smashed. The winds blew off a granary southwest of Aurora.</p>													
Fall River County	14	EVE			0	0	2	0					Lightning
<p>Lightning struck a stack of hay near Edgenott, setting it on fire.</p>													
Jones County	14	2310 CST			0	0	0	0					Hail
<p>One and three-quarter inch diameter hail fell in Murdo.</p>													
SDZONE Northeast SD	14-15	LT EVE-ERY MRNG			0	0	3	?					High Winds, Heavy Rain, Hail
<p>Thunderstorm winds gusted to 60 MPH, twelve miles west of Warner (Brown County) at 0325 CST. Heavy rain fell, with three inches of rain in an hour and a half reported in extreme northwest Marshall County. The largest amount was seven inches southeast of Bowdle (Edmunds County). The rains caused lowland flooding, with water over several roads in Marshall County, including Highway 10, two miles east of Britton (Marshall County) and Highway 47 near Bowdle. Some culverts were also washed out in Marshall County. Hail damage to crops was reported northwest of Britton.</p>													
Minnehaha County	15	1015 CST			0	1	0	0					Lightning
<p>A surveyor was struck and slightly injured by lightning near the Sioux Falls airport.</p>													
Walworth, Potter, and Sully Counties	16	ERY MRNG			0	0	3	?					High Winds, Hail
<p>Strong thunderstorm winds gusted to 60 MPH at Agar and Akaska at 0130 CST. Strong winds at 0130 CST tore a roof off of a large cattle shed nine miles south of Gettysburg. A van and two pickup trucks were lifted and moved at that location. The strong winds along with some hail caused crop damage in the Agar area.</p>													
Bonnett County	17	ERY MRNG			0	0	5	0					Lightning
<p>Lightning set a trailer house on fire two miles north of Martin. The house and its contents were completely destroyed.</p>													
Brown County	17	LT MRNG-ERY EVE			0	0	5	?					High Winds, Hail, Funnel Clouds, Lightning
<p>Strong thunderstorm winds gusted to 60 MPH ten miles east of Aberdeen at 1812 CST. The strong winds also downed some trees near Mansfield and tore the roof off of a barn at 1710 CST. The winds also knocked out power in Mansfield for a short time. One and three-quarter inch diameter hail fell one mile west of Columbia at 1730 CST and caused tree and crop damage. Funnel clouds were sighted two miles northeast of Aberdeen at 1758 CST and four miles east of Aberdeen at 1801 CST. Lightning started a house fire on the northwest shore of Richmond Lake at 1735 CST and caused a minor house fire at 1100 CST in northeast Aberdeen.</p>													
Sanborn County	17	1605 CST			0	0	0	0					Hail
<p>Three-quarter inch diameter hail fell in Woonsocket.</p>													
Brown County	17	1653 CST .1	25		0	0	0	0					Tornado (F0)
<p>A tornado touched down briefly ten miles northwest of Aberdeen. No damage was reported.</p>													
Hamlin County	18	1445-1510 CST	14.0	120	0	0	4	0					Tornado (F2)
<p>A tornado touched down two miles southeast of Bryant near Dolph Creek and traveled east along the creek to the Lake Norden area. The tornado damaged many trees and destroyed hay bales. A barn was destroyed by the tornado one mile south of Lake Norden, and another was badly damaged southwest of Lake Norden. The tornado dissipated one mile southeast of Lake Norden.</p>													
— SOUTH DAKOTA													
Deuel County	18	1538-1614 CST	17.0	150	0	0	4	0					Tornado (F2)
<p>A tornado touched down three miles west of Toronto and moved southeast. The tornado destroyed a barn, silo, and six other buildings and caused extensive damage to farm equipment on a farm one mile south and a half mile west of Astoria. The tornado then moved northeast and dissipated three miles northeast of Astoria.</p>													
Perkins County	18	1600-1630 CST	10.5	140	0	0	3	0					Tornado (F2)
<p>A tornado touched down 1.5 miles southwest of Meadow and moved east to fourteen miles west of Glad Valley. The tornado toppled six power poles and tore up 30 bales of hay.</p>													
Perkins County	18	1615 CST .1	40		0	0	0	0					Tornado (F0)
<p>A tornado touched down briefly in the Rabbit Butte area in west-central Perkins County. No damage was reported.</p>													
SDZ00W Western SD	18	AFTN-			1	0	4	?					Hail, High Winds, Lightning, Funnel Clouds
<p>Hail fell at many locations during the afternoon. The largest hail reported was four and one-half inches in diameter, six miles east of Bison (Perkins County) at 1550 CST. The hail in that area severely damaged crops, buildings and vehicles. Other locations receiving hail one and three-quarter inches in diameter were west of Lemmon (Perkins County) at 1515 CST, north of Wall (Pennington County) between 1455 and 1510 CST, Meadow (Perkins County) at 1550 CST, Wanblee (Jackson County) at 1610 CST, and at Ridgeview (Dewey County) at 1620 CST. In these areas, hail caused extensive crop damage and some building and vehicle damage. Thunderstorm winds destroyed seventy bales of hay north of Wall at 1505 CST. Lightning struck and killed a sixteen year old youth as he was windrowing grain ten miles north of Witten (Tripp County) at 1400 CST. Numerous funnel clouds were reported over Perkins County at 1615 CST, and a funnel cloud was sighted over Glad Valley (Ziebach County) at 1635 CST. Lightning M16V</p>													
SDZ00E Eastern SD	18	AFTN-EVE			0	0	3	?					Hail, High Winds, Heavy Rain, Lightning, Funnel Clouds
<p>One and three-quarter inch diameter hail fell in a path two miles wide and four miles long from southwest Clark County to Hamlin County between 1550 and 1605 CST, destroying crops and damaging buildings and vehicles. One and three-quarter inch diameter hail also fell southeast of Roslyn (Day County) at 1625 CST, with one inch diameter hail reported southwest of Astoria (Deuel County) at 1610 CST. Thunderstorm winds gusted to 80 MPH at Lake Norden (Hamlin County) at 1440 CST. The strong winds downed power poles and caused many power outages in Deuel County. Heavy rain fell west of Grenville (Day County) with 3.5 inches reported and east of Clear Lake (Deuel County); two to three inches were common. At 2105 CST, lightning knocked out power to several towns in east-central South Dakota for forty minutes. Lightning also caused a fire in a building seven miles south of Huron (Beadle County) in the mid afternoon. Lightning struck a car on Interstate 29 near Watertown (Codington County) and blew out its four tires shortly after 1600 CST. A funnel cloud was sighted four miles north of Grotton (Brown County) at 1930 CST and over Gann Valley (Buffalo County) in the afternoon.</p>													
Lincoln County	19	0545 CST			0	0	4	0					Lightning
<p>Lightning struck a garage and corn crib northeast of Canton and started a fire. Lost in the fire were a corn picker, feed grinder, and a grain elevator.</p>													
Lincoln County	21	2230 CST			0	0	3	0					High Winds
<p>Strong thunderstorm winds damaged the Canton auction building and the entrance to a lumber company.</p>													

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— SOUTH DAKOTA									
Marshall and Roberts Counties	23	EVE			0	0	0	?	High Winds, Hail, Heavy Rain
Thunderstorm winds gusted to 60 MPH on the Roberts and Marshall county line, southeast of Veblen. The central portion of Roberts County had up to one and three-quarter inch diameter hail with crop damage reported. Heavy rainfall of up to seven inches at Sica Hollow State Park caused extensive lowland flooding in the area. Highway 10 west of Sisseton was under water for several miles. The Sisseton city park was also completely under water.									
SD70NC North-Central SD	24	0000-0115 CST			0	0	3	0	Lightning
Lightning struck and severely damaged a tree in Hosmer (Edmunds County). A house four and one-half miles southeast of Herreid (Campbell County) was also struck by lightning, causing damage to the house and appliances inside.									
SD700W Western SD	25	AFTN			0	3	5	?	Hail, High Winds, Funnel Clouds, Lightning, Heavy Rain
Large hail fell over many areas, with the largest report being two and three-quarter inch in diameter over much of Hughes and Buffalo Counties between 1525 and 1546 CST. Hail, two and three-quarter inch in diameter also fell at Akaska (Walworth County) at 1505 CST. Many other areas had smaller hail, which piled up to two feet deep in Black Hawk (Meade County) and northern Rapid City (Pennington County). The hail in the central portion of the state severely damaged crops, buildings and vehicles. Strong thunderstorm winds destroyed a vehicle storage building on the west edge of Ft. Pierre (Stanley County) at 1530 CST, injuring three people and damaging vehicles inside. Funnel clouds were reported over northern Rapid City at 1400 CST, south of Lead (Lawrence County) at 1400 CST, five miles northwest of Selby (Walworth County) at 1425 CST, and over Akaska at 1500 CST. Lightning struck a well house in Black Hawk and set the eaves of the house on fire. The thunderstorms also produced heavy rainfall with some urban flooding in Rapid City. Up to two inches of rain fell in twenty minutes twelve miles north of Pierre and 3.2 inches of rain in thirty minutes at Akaska. The heavy rain caused a spillway on a dam to overflow near Akaska, damaging two houses in Akaska and resulting in many flooded basements.									
SD700E Eastern SD	25- 26	EVE- ERY MRNG			0	0	4	?	Hail, Heavy Rain, High Winds, Lightning
Hail severely damaged crops in this part of the state, especially north of Huron (Beadle County) and Miller (Hand County). Up to one and three-quarter inch diameter hail fell over the area from 1600 to 1725 CST. The hail was piled two feet deep in Huron and damaged buildings and vehicles in the area. The thunderstorms produced up to ten inches of rain north of Huron, seven inches southwest of De Smet (Kingsbury County) and six inches northeast of Wolsey (Beadle County). The rainfall of 4.98 inches at Huron was the greatest 24 hour rainfall for July for that city. Considerable lowland flooding occurred, with water five feet deep in places. At 0215 CST, the heavy rainfall had water eight inches deep on roads in Brookings (Brookings County). Strong thunderstorm winds gusted to 60 MPH between 1930 and 2000 CST in Huron and blew a garage door off of a building at the airport. Strong winds also blew a roof of a machine shed southwest of De Smet and trees were uprooted. Near Wessington (Beadle County), trees were blown down and a barn was damaged, and west of Ethan (Davison County), damage was done to buildings and vehicles by the winds. At 2350 CST, lightning started a house fire in Hayti (Hamlin County). Lightning also traveled down an antenna and set a couch on fire in Estelline (Hamlin County). A funnel cloud was sighted over Highway 25 on Kingsbury and Miner County line at 2317 CST.									
Meade County	26	1320 CST			0	0	0	0	Hail
One inch diameter hail fell at Piedmont.									
— SOUTH DAKOTA									
SD70NC North-Central SD	26	EVE			0	0	2	?	Funnel Cloud, Hail, Heavy Rain, High Winds
A funnel cloud was sighted two miles west and five miles south of Lowry (Walworth County) at 1825 CST. Hail of unknown size fell in northern Corson County, causing crop damage. Up to five inches of rain fell in central Corson County, with 2.5 inches of rain in ten minutes reported one mile northwest of Mc Laughlin (Corson County). Strong thunderstorm winds took the roof off of a park building in Akaska at 1815 CST.									
Hughes County	26	EVE			0	0	3	0	High Winds
Thunderstorm winds damaged several buildings in Pierre. Outside of Pierre, several irrigation pivots were tipped over.									
Davison County	26	2220-2230 CST			0	0	4	?	High Winds
Strong thunderstorm winds destroyed a barn, a garage roof and a windmill five miles south and one mile east of Mitchell. Some vehicles were also damaged at that location.									
Dewey County	27	AFTN			0	0	0	?	Hail
Hail fell in a narrow strip from northwest of Eagle Butte to 27 miles southeast of Eagle Butte. The hail was up to one and three-quarter inch in diameter and severely damaged crops.									
Brule County	28	1613-1626 CST	6.0	80	0	0	5	0	Tornado (F2)
A tornado touched down three miles northwest of Kimball, traveling to three miles southeast of Kimball. Ten to twelve farms along the path reported damage to their buildings and equipment.									
Aurora County	28	1630-1636 CST	3.5	80	0	0	4	0	Tornado (F2)
A tornado touched down five miles south of White Lake and moved southeast 3.5 miles, striking several farms along its path. A farm southeast of town had all of its buildings damaged.									
Douglas County	28	1650-1653 CST	1.9	80	0	0	5	0	Tornado (F2)
A tornado touched down northeast of Corsica and moved east-southeast. One barn was destroyed and several other buildings were damaged by the tornado.									
Douglas County	28	1650-1653 CST	1.5	70	0	0	4	0	Tornado (F1)
A tornado touched down one half mile east of Delmont and traveled to two miles east of Delmont. Farms in the path of the tornado lost silos and trees.									
Union County	28	1745-1756 CST	.2	40	0	0	0	0	Tornado (F0)
A tornado touched down briefly one mile north of North Sioux City. No damage was reported.									
Clay County	28	1750 CST	.2	40	0	0	0	0	Tornado (F0)
A tornado touched down briefly just east of Burbank. No damage was reported.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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					KILLED	INJURED	PROPERTY	CROPS	
SOUTH DAKOTA									
SDZ05E Southeast SD	28	AFTN-EVE			0	6	5	?	Hail, Funnel Clouds, High Winds, Heavy Rain
									<p>Large hail fell over the area with up to four inch diameter hail reported east of Ft. Thompson (Buffalo County) at 1530 CST and four and one-half inch diameter hail at Elkton (Brookings County) at 1530 CST. Other hail reports included two and three-quarter inch diameter hail twelve miles north of Pierre (Hughes County) at 1525 CST and Jefferson (Union County) at 1720 CST. One and three-quarter inch diameter hail fell at Kimball (Brule County) at 1611 CST; Stickney (Aurora County), Meckling (Clay County), Vermillion (Clay County) at 1650 CST; and North Sioux City (Union County) at 1952 CST. The hail caused extensive damage to crops, buildings and vehicles, with the worst damage reported from Bemis (Deuel County) to Astoria (Deuel County) where crops were totaled. Funnel clouds were sighted at Fulton (Hanson County) at 1655 CST, west of Yankton (Yankton County) at 1725 CST, one mile west of Dell Rapids (Minnehaha County) at 1740 CST, eight miles east of Tripp (Hutchinson County) at 1739 CST, and several in the North Sioux City area from 1741 to 1945 CST. Strong thunderstorm winds blew over three motor homes and a truck on Interstate 90 near Kimball at 1610 CST, injuring six people. The winds blew over 70 power poles in the area, closing Interstate 90 and Highway 16 east of Kimball for an hour. In a 225 square mile area south of Kimball and White Lake (Aurora County), power was out for many hours. Winds gusted to 60 MPH in Kimball at 1611 CST. Two large fuel tanks were blown over in Kimball. Fifteen to twenty farms had wind damage in Douglas County. In Utica (Yankton County), a barn was flattened and trees were uprooted by the winds, and a house garage was destroyed seven miles west of Parkston (Hutchinson County). Buildings were damaged on a farm four miles east and one mile north of Corsica (Douglas County) at 1705 CST. Up to two inches of rain fell in a short time, twelve miles north of Pierre.</p>
Codington County	29	2204-2213 CST	5.9	100	0	0	0	0	Tornado (F1)
									<p>A tornado touched down three and one-half miles west of Lake Kampeska and moved just to the north of Watertown. No damage was reported.</p>
SDZ0NE Northeast SD	29	EVE			0	0	4	6	Hail, Funnel Clouds, High Winds
									<p>Hail up to two inches in diameter fell at Turnerville (Deuel County) at 2305 CST, with one to two inch diameter hail reported over many areas including: Goodwin (Deuel County) at 2307 CST, Clear Lake (Deuel County) at 2332 CST, Willow Lake (Clark County) from 1908 to 1921 CST, five miles north of Watertown (Codington County) at 2240 CST, eight miles southwest of Bristol (Day County) at 2002 CST, and four miles southeast of Ferney (Brown County) at 2035 CST. In Lily (Codington County), hail was up to two and three-quarter inch in diameter at 2205 CST. Hail damage was extensive from Waverly (Codington County) to Goodwin. Several funnel clouds were sighted just north of Watertown at 2240 CST. Thunderstorm winds blew a tree onto a garage in Aberdeen (Brown County) between 2300 and 2310 CST and a tree onto a house in Gary (Deuel County).</p>
SDZ0SW Southwest SD	29	LT EVE			0	0	0	0	High Winds
									<p>Winds after a cold front gusted to 58 MPH at the Rapid City airport (Pennington County) at 2154 CST. The winds caused power outages for an hour in western Bennett and eastern Shannon Counties.</p>
Deuel County	30	1100-1130 CST			0	0	0	6	Hail
									<p>Hail, ranging in size from one and one-half inches in diameter to one and three-quarters inch in diameter did extensive damage to crops in northwest Deuel County, near Goodwin.</p>
SDZ0SW Southwest SD	30	EVE			0	0	0	?	Hail, Funnel Cloud, Lightning
									<p>Three-quarter inch diameter hail was reported at the Badlands National Park (Pennington County) at 1900 CST. Hail also damaged an area near Wanblee (Jackson County). A funnel cloud was reported over Long Valley (Jackson County) at 1930 CST. Lightning knocked out power in the Wanblee area for a time.</p>
40 TENNESSEE									
Cookeville, Putnam County	01	1220CST			0	0	4	0	Lightning
									<p>Lightning entered a house and started a fire that caused \$45,000 in damage.</p>
McMinn County	02	1600EST			0	0	4	0	Thunderstorm Wind
									<p>Strong winds from a thunderstorm partially deroofed a house and blew down trees in the central portion of the county.</p>
Chucky, Greene County	09	2200EST			0	0	4	0	Lightning
									<p>Lightning struck a house on Route 1 and caused a fire which destroyed the home.</p>
Knox County	10	1200EST			0	1	0	0	Lightning
	10	1200EST			0	0	2	0	Thunderstorm Wind
									<p>Lightning struck a 28 year old woman while she was standing outside her home at Hill Road and Heins Creek, but she received only minor injuries, and complained only of numbness on the side of her body. Numerous power outages were caused by trees falling on power lines as they were downed by strong thunderstorm winds.</p>
Sumner County	10	1500EST			0	2	4	0	Thunderstorm Wind
									<p>Strong thunderstorm winds downed many trees in the Portland area. Two men were injured while driving when they rounded a curve and were unable to avoid a tree which had fallen across the road. A tree also fell across a house. Several roofs were damaged by the winds, and power was interrupted.</p>
Trenton, Gibson County	12	1500CST			0	0	4	0	Thunderstorm Wind
									<p>The top of a large tree was blown onto two automobiles, crushing the roof of each vehicle, during a violent thunderstorm.</p>
Carroll County	12	1700CST			0	0	4	0	Thunderstorm Wind
									<p>Violent thunderstorm winds downed trees throughout the county. In Trezevant, a tree fell on two vehicles, causing damage to both.</p>
Loudon County	13	1400EST			0	0	4	0	Thunderstorm Wind
Anderson County	13	1400EST			0	0	4	0	Thunderstorm Wind
Knox County	13	1420EST			0	0	4	0	Thunderstorm Wind
									<p>In Loudon County, strong thunderstorm winds tore the sheet-metal roof off of a building in downtown Loudon which housed a pizza parlor and an auto parts store. \$6,000 in damage occurred. An awning was ripped from another shop nearby. In the Martel community, a barn roof was blown off, columns were torn from porches, and trees were uprooted. In Anderson County at the Oak Ridge National Laboratory, major damage occurred to a new building's sheet metal siding. One vehicle sustained major damage, and two others received minor damage from falling debris in a nearby parking lot. Numerous trees were blown over in eastern Anderson County in the Clinton area, as well as in western Knox County, causing power outages. One tree fell on a car and damaged it's roof in western Knox County.</p>
Lincoln County	13	1415CST			0	0	4	0	Lightning
	13	1415CST			0	0	2	0	Thunderstorm Wind
									<p>Lightning struck and killed six cows. Thunderstorm winds blew over numerous trees and power lines throughout the county.</p>
Hamblen County	13	1700EST			0	0	3	0	Thunderstorm Wind
	13	1700EST			0	0	4	0	Mudslide
									<p>A violent thunderstorm blew down numerous trees in the Russellville area, especially along Old Stage Road. One tree fell on a house, damaging it's roof. Heavy rains which accompanied the thunderstorm caused a mudslide which did major damage to property on Old Kentucky Road, as a metal building's foundation was shifted.</p>
Johnson City, Washington County	13	1725EST			0	0	5	0	Lightning
									<p>Lightning struck a church which was under renovation, and the resultant fire destroyed the structure.</p>
McNairy County	13	2155CST			0	0	4	0	Lightning
	13	2155CST			0	0	1	0	Thunderstorm Wind
									<p>Lightning struck a business on U.S. Highway 45 just north of Selmer, and around \$10,000 in damage was caused by the ensuing fire. Many trees were uprooted throughout the county during the passage of the thunderstorms.</p>
Lafayette, Macon County	14	1250CST			0	0	4	0	Lightning
									<p>Lightning struck a house in the Lafayette area and sparked a fire which destroyed the small frame home.</p>
McMinnville, Warren County	14	1400CST			0	0	3	0	Heavy Rain
	14	1400CST			0	0	2	0	Thunderstorm Wind
									<p>1.88 to 2.50 inches of rain fell during the passage of thunderstorms, causing urban flooding in McMinnville. Up to a foot of water entered several businesses in the downtown area. Some damage due to washouts occurred on rural roads in the county. A large tree limb was blown onto a car in McMinnville, damaging it's roof.</p>

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					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	
— TENNESSEE											
Sumner County	14	1500CST			0	0	3	0			Thunderstorm Wind
											Strong winds from a thunderstorm tore down large trees and damaged roofs in the Emilee Point area of Lock Four Road, and damaged locks at the Gallatin Marina. Minor damage to houses also occurred at Castalian Springs.
Fentress County	14	1530CST			0	0	4	0			Thunderstorm Wind
											Thunderstorm wind damage occurred in the South James ⁽⁸²⁾ and Allardt areas, especially in and near the Fentress Farmer's Cooperative on Highway 1275, where a roof was blown from the porch of a home, a 21 foot trailer was blown 100 feet into some trees, a large hole was created in the roof of another home, and numerous trees were downed. Telephone and power outages also occurred. Winds were reported to be near 60 miles an hour.
Loudon County	14	1530EST			0	0	3	0			Thunderstorm Wind
											Strong thunderstorm winds blew two barn roofs away in the Lenoir City area, in Cusick Circle and on Old Stage Road near Dixie Lee Junction. Trees and signs were blown down as well.
Bledsoe County	14	1610CST			0	0	2	0			Lightning
											Lightning was believed to be the cause of a house fire in the Nine Mile community. The fire was contained to the kitchen area, starting near a switchbox.
Dyer County	14	1630CST			0	0	3	0			Lightning
	14	1630CST			0	0	1	0			Thunderstorm Wind
											Lightning started four house fires: in the Manglewood area near Big Boy Junction, on Powell Road, in the Churchton community, and on Upper Finley Road. Damage was minor in each instance. Trees were downed in Unionville, Sorrells Chapel, and Finley by the strong thunderstorm winds.
Cumberland County	20	2030CST			0	0	3	0			Thunderstorm Wind
											High thunderstorm winds shattered a storefront window in Crossville and many trees and limbs were downed across highways and streets throughout the county.
Celina, Clay County	21	1400CST			0	0	3	0			Thunderstorm Wind
											A plate glass window was blown out of a restaurant, and a roof at a cafe was damaged by strong thunderstorm winds.
Nashville, Davidson County	22	After-noon			0	5	0	0			Heat
											A heat wave gripped the southeastern United States including Tennessee during the latter half of July. In Nashville, five people were hospitalized for heat exhaustion as the temperature rose to 102 degrees on the 22nd. The Heat Index reached to near 120 degrees.
Del Rio, Cocke County	24	1350EST			0	0	3	0			Thunderstorm Wind
	24	1350EST			0	0	2	0			Lightning
	24	1350EST			0	0	1	0			Hail (1.75)
											A home on Maple Grove Road was struck by lightning, and smoke from a small fire caused slight damage. A roof was blown off of a trailer. About 20 trees were uprooted along Big Creek Road. Several trees were blown onto a grocery, and tore part of a gutter from a house. Golf ball-sized hail fell along Big Creek Road.
Johnson City, Washington County	24	After-noon			0	0	3	0			Lightning
											Lightning struck the corner of the Downtown Centre at the corner of Market Street and the Downtown Loop. Concrete was blasted from the top of the structure and debris rained down on the street.
Vonore, Monroe County	24	After-noon			0	0	4	0			Lightning
											Lightning struck a barn in Vonore and the resulting fire destroyed the barn and the hay that was stored inside.
Crundy County	25	1115CST			0	1	2	0			Lightning
	25	1115CST			0	0	2	2			Thunderstorm Wind
	25	1115CST			0	0	1	1			Hail (1.75)
											Lightning struck a woman who had sought shelter in the hallway of a concession stand at a ballfield in the Cruetli-Laager area. She collapsed and was unconscious when an ambulance crew transported her to a hospital, but she was released later in the day. Lightning also damaged a public address system and a scoreboard. A man standing nearby was not struck, but another man about 1 mile away may have been struck by lightning as he was slammed into a car as lightning occurred; he was uninjured. Lightning also struck a house, damaging wiring and appliances. High thunderstorm winds, uprooted trees and damaged a cornfield. A home was slightly damaged by the winds. Golf ball-sized hail accompanied the thunderstorm.
Sequatchie County	25	1145CST			0	0	3	0			Thunderstorm Wind
											A collapsed garage and damage to a house resulted when violent thunderstorm winds occurred near Cagle Mountain. Several large trees were uprooted. Damage was estimated at \$1,500.
— TENNESSEE											
Bedford County	25	1300CST			0	0	4	0			Lightning
											A 1000 kVa auto-transformer on the Fayetteville Highway was struck by lightning and destroyed. The replacement cost was \$9,000.
Memphis, Shelby County	25	After-noon			1	0	0	0			Heat
											An 81 year old woman died of hyperthermia. High temperatures were in the upper 90s, and the Heat Index was 115 degrees or higher. The victim's home was closed and poorly ventilated.
Cheatham County	26	1300CST			0	0	3	0			Thunderstorm Wind
											A church's steeple was blown off by strong thunderstorm winds in Pleasant Hill. Several trees were downed, and some homes suffered minor damage in Ashland City.
Macon County	26	1440CST			0	0	3	0			Lightning
	26	1440CST			0	0	4	0			Thunderstorm Wind
											Lightning struck a house near Brattontown, starting a fire in the attic of the brick dwelling. Violent winds from the thunderstorm deroofed a barn and caused damage to power lines. A large beech tree was blown over onto a moving car, which was heavily damaged by the tree.
Davidson County	26	1445CST			0	0	5	0			Thunderstorm Wind (87)
											Major damage estimated at \$100,000 occurred at two marinas at Percy Priest Lake as intense thunderstorm winds, estimated at up to 100 miles an hour, snapped piers and docks, slammed boats into other boats, and deroofed enclosed docks. The Elm Hill marina was damaged much more than the Hamilton Creek facility. Thirteen catamarans at the Elm Hill marina were blown up a bank and into a parking lot where they damaged at least two vehicles. One catamaran flew over the parking lot at about 8 feet in the air.
Montgomery County	26	1730CST			1	10	0	0			Lightning
											One member of a Kentucky National Guard Unit was killed and ten others were injured by lightning as they trained at Fort Campbell Military Reservation. Lightning struck a tree and traveled down to the base where it struck a 20 year old male in the head. Two of the ten injured men were kept in intensive care as they complained of continuing numbness in their limbs. M200.
Henry County	26	1930CST			0	0	4	0			Lightning
	26	1930CST			0	0	3	0			Thunderstorm Wind
											Lightning struck a storage shed on the Paris-Murray Road near Puryear, and the ensuing fire destroyed the building. Lightning also struck two abandoned houses, one on the Clayton Town Road near Puryear, and the other on Highway 641 north of Paris. Damage was near \$10,000. Strong winds from the thunderstorms blew down the Pleasant View boat dock and scattered pontoon boats.
Bartlett, Shelby County	26	1935CST			0	0	5	0			Lightning
											Lightning sparked a fire which heavily damaged a home in Bartlett. Damage to the home and contents was between \$60,000 and \$70,000.
McKenzie, Carroll County	26	2050CST			0	0	3	0			Lightning
											Lightning was blamed for starting a fire at a Route 3 home, where moderate damage was sustained.
Unicoi County	27	1500EST			0	0	5	0			Flash Flood
											Heavy rains between 1500EST and 1730EST caused flash flooding along Edwards Branch and other nearby creeks. Edwards Branch Road became a roaring creek, washing out the main road and home entrance roads. The County Road Superintendent estimated that \$50,000 in damage had occurred, and he said that one and a half miles of new road would have to be built. 2 wooden bridges were destroyed.
Union City, Obion County	29	0530CST			0	0	1	0			Thunderstorm Wind
	29	0530CST			0	0	3	0			Lightning
											At least a dozen trees were downed throughout Grove Creek Park in Union City. A stage used for fireworks at the Obion County Fairgrounds was twisted, and booths were blown over. Lightning damaged five transformers which caused power outages.
Memphis, Shelby County	30	After-noon			1	0	0	0			Heat
											A 90 year old male died of hyperthermia. Afternoon temperatures were above 100 degrees, and the Heat Index approached 120 degrees.
Chattanooga, Hamilton County	30	Evening			1	0	0	0			Heat
											A 74 year old male died of hyperthermia. Afternoon temperatures were near 100 degrees, and the Heat Index was 115 degrees or higher.

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					KILLED	INJURED	PROPERTY	CROPS	

— TENNESSEE

Sumner County	31 0830CST	0	0	4	0	Thunderstorm Wind	Thunderstorm winds blew down a barn in the Clearview Road area. Two trailers were turned over, completely demolishing one. A tree was blown onto a house in the New Deal area, causing moderate damage. Another barn was deroofed, a large sign was demolished, and a portion of a roof was blown off at a cleaning facility on Fortlan-White House Road. A tree fell through a trailer at a trailer court in Gallatin, and another tree fell on a fence. Scores of trees were felled throughout the county. A home under construction was blown down near Bethpage.
Putnam County	31 0930CST	0	0	4	0	Thunderstorm Wind	Middle and eastern portions of Putnam County were most affected by violent thunderstorm winds. A tree fell on a moving car in Monterey, and another tree crushed a parked auto. Several other vehicles were damaged by flying debris. Many trees and power lines were downed.
Crossville, Cumberland County	31 1000CST	0	0	5	0	Thunderstorm Wind (55)	Damages were estimated at \$60,000 as thunderstorm winds near 62 miles an hour downed trees, blew down signs, and caused roof damage, mostly in downtown Crossville.
Knox County	31 1315EST	0	0	4	0	Lightning	Lightning started a fire at an east Knox County home, causing considerable damage.
Shelby County	31 1740CST	0	0	2	0	Thunderstorm Wind (63)	Strong thunderstorm winds blew down large trees in northern sections of the county. Winds gusted to near 70 miles an hour at the Memphis International Airport.
Morristown, Hamblen County	31 2130EST	0	1	0	0	Lightning	A 33 year old man was treated at a hospital for minor injuries when he was struck by lightning.
Memphis, Shelby County	31 Afternoon /Evening	4	0	0	0	Heat	Four more people died of hyperthermia, as afternoon temperatures continued to reach over 100 degrees and the Heat Index was near 120 degrees. The victims included a 69 year old male, a 59 year old male, a 95 year old female, and a 70 year old female. The latter two victims were in the same closed house with no ventilation.
TN ZALL Statewide	Month	0	0	0	?	Drought	Chronic drought conditions persisted in Tennessee for 1986, with a deficit of rainfall first noted in late 1984. Eastern Tennessee was most affected, with some areas as much as 20 inches below normal since late 1984. Crop losses had not been specified, but are expected to be devastating to the Tennessee farm economy for 1986, especially for row crops and tobacco.

41 TEXAS, Northern

Fannin County	2 0630CST	0	0	?	?	TSTM Winds (57)	Strong winds of up to 57 knots downed several trees in Bonham.
Hunt County	3 1300CST 1312CST	0	0	3	?	TSTM Winds Funnel Cloud	Strong winds unroofed a barn in Caddo Mills at 1300CST. A funnel was observed near the Greenville Airport at 1312CST.
McLennan County	3 1430CST	0	0	0	0	Funnel Cloud	A funnel was observed by a pilot over the northern part of the county.
Ellis County	3 1555CST	0	0	3	?	TSTM Winds	Strong winds destroyed a barn just north of Waxahachie.
Dallas County	3 1630CST	0	0	?	?	TSTM Winds	Strong winds uprooted trees and damaged several roofs in Garland.
Runnels County	11 1835CST 1923CST Short Narrow	0	0	?	?	TSTM Winds Tornado (FB)	Strong winds of up to 52 knots destroyed several storage buildings and a barn just south of Ballinger at 1835CST. A small tornado broke several electric power poles 3 miles east of Rowena at 1923CST.

— TEXAS, Northern

Concho County	11 1940CST Short Narrow	0	0	?	?	Tornado (FB)	A tornado touched down briefly 7 miles west of Paint Rock in open country.
Wilbarger County	20 1745CST	0	0	4	0	TSTM Winds	Strong winds damaged two barns and a storage building just west of Vernon.
Collin County	21 1345CST	0	0	?	?	TSTM Winds (52)	Strong winds of up to 52 knots were observed at Allen.
Denton County	21 1400CST	0	0	0	0	Funnel Cloud	A funnel was observed near Denton.
Stephens County	21 1515CST	0	0	4	?	TSTM Winds	Strong winds tore the sheet metal roof from a 150 foot long storage building in Breckenridge.
Dallas County	21 1600CST	0	0	?	?	TSTM Winds (52)	Strong winds of up to 52 knots were observed in western sections of Dallas and Irving.
Smith County	21 1630CST	0	0	?	?	TSTM Winds	Strong winds uprooted large trees, downed power lines, and damaged roofs and windows in south Tyler.
Farker County	21 1700CST	0	0	?	?	TSTM Winds (56)	Strong winds of up to 56 knots downed trees and power lines 2 miles west of Aledo.
Eastland County	21 1720CST	0	0	?	?	TSTM Winds	Strong winds knocked a tree onto a power line in Ranger.
Young County	21 1830CST	0	0	?	?	TSTM Winds	Two mobile homes were damaged by strong winds in Graham.
Bowie County	21 1830CST	0	0	?	?	TSTM Winds	Strong winds damaged trees and the roofs of two houses in Nash (just west of Texarkana).
Cass County	21 1930CST	0	0	?	?	Hail (1.00)	Hail the size of nickels fell between Linden and Kildare.
Rockwall County	21 2057CST	0	0	?	?	TSTM Winds	Strong winds blew a police car into a ditch in Rockwall.
Dallas County	21 2200CST	0	0	?	?	TSTM Winds	Strong winds damaged plate glass windows in store fronts in Grand Prairie.
Tarrant County	21 2200CST	0	0	?	?	TSTM Winds	Strong winds unroofed a building at the Grand Prairie Airport and flipped over several airplanes.
Kaufman County	22 0120CST	0	0	?	?	Flash Flooding	Heavy rains flooded Farm Road 429 one-half mile south of Highway 60.
Navarro County	22 0247CST	0	0	?	?	Flash Flooding	Heavy rains of around 3 inches in Corsicana and up to 6 inches in Eureka and Angus produced widespread street flooding in Corsicana and flooded Highway 31 east of Corsicana.

41 TEXAS, Southern

Galveston County	08 1345CST 08 1345CST	0	0	5	0	Wind Hail (1.75)	In Santa Fe (northwestern part of the county), high winds from a thunderstorm toppled trees, utility poles and lines and severely damaged a metal storage shed. At least two homes were damaged from fallen trees. Hail up to the size of golfballs also fell.
Montgomery County	15 1500CST	0	0	5	0	Wind	High winds from a thunderstorm destroyed a 65-unit boat storage enclosure on the southern end of Lake Cource.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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									
Burnet County	21	1600CST			0	0	5	0	Wind
									High winds from a thunderstorm caused several boat storage facilities to collapse around the Buchanan Dam area. One building had its side ripped off. At the Kingsland Airport, the high winds overturned a parked airplane.
41 TEXAS, Western									
Winkler County	01	2224CST			0	0	0	0	Funnel
									A deputy sheriff reported a funnel cloud 5 miles north-northwest of Kermit.
King County	03	1150CST			0	0	0	0	Flash Flooding
									Thunderstorm rains, in excess of 6 inches, flooded roads throughout the county and numerous autos were stalled due to high water in the city of Guthrie.
El Paso County	09	1549CST			0	0	0	0	Funnel
									Weather Service personnel observed a funnel cloud 8 miles east of the El Paso International Airport from 1549 CST through 1551 CST, moving to the southeast.
El Paso County	09	1930-2030CST			0	0	?	0	Lightning
									Lightning knocked out power to a large section of the west and northeast sides of El Paso, doing an unknown amount of damage to power lines, poles, and transformers.
El Paso County	09	2225CST			0	0	0	0	Flash Flooding
									Very heavy thunderstorm rains, in excess of 2 inches, produced street flooding and residential flooding, mandating evacuation of homes in the Santa Teresa and Crossroads areas of the city of El Paso.
El Paso County	10	1800-2200CST			0	0	?	0	Flash Flooding
									A slow-moving thunderstorm complex dropped more than 2 inches of rain in some parts of the Upper Rio Grande Valley of western El Paso County. Some homes were evacuated.
Tom Green County	11	1900-2030CST			0	0	?	0	Windstorm
									Thunderstorm winds uprooted trees, moved storage buildings, and unroofed at least one mobile home in north and northwest San Angelo. Utility poles and wires were also downed. At 1930 CST, a barn was unroofed 9 miles north-northeast of San Angelo Municipal Airport.
Armstrong County	12	1855CST	Short	30	0	0	0	0	Tornado (F0)
									Department of Public Safety patrolman reported sighting a tornado 2 miles south and 4 miles west of Claude. No damage was reported.
El Paso County	19	1540CST			0	0	1	0	Windstorm
									Thunderstorm winds, in the Fabens and Clint area of southern El Paso County, tore a shed off its foundation and overturned another outbuilding.
Lubbock County	21	1805CST			0	0	4	0	Lightning
									Fire Department Officials reported that lightning set a house afire on the southeast side of Lubbock, doing about 15,000 dollars damage. An adjacent power pole was also struck, knocking power out over that part of the city.
El Paso County	22	1720-1840CST			0	0	4	0	Flash Flooding
									An intense thunderstorm moved slowly across the northeast side of El Paso, dropping more than an inch of rain. Water between 1 and 2 feet deep poured through city streets and spilled into businesses and residences. Many automobiles were stalled due to the high water as well.
El Paso County	24	Time Unknown			0	0	?	0	Hail
									Dime-sized hail was reported in the western part of the county along the Franklin Mountains.
42 UTAH									
Davis County	02	aftn.			0	0	2	0	Thunderstorm Winds
									Gusty thunderstorm winds blew the roof off a small building in Woods Cross and split a tree in half. A spotter in nearby Centerville recorded a gust to 54 mph at about 3:38 p.m. MDT.
Cache County	04	1305MST			0	0	5	0	Thunderstorm Winds
Salt Lake and Utah Counties	04	1530MST			0	0	1	0	Thunderstorm Winds
Utah County	04	aftn.			0	0	4	0	Lightning
									Strong thunderstorm downburst winds, combined with prefrontal winds, caused much damage in the Cache Valley on this Friday afternoon. Damage from the winds included broken car windows, broken store windows, uprooted trees and downed power lines. The greatest damage occurred near downtown Logan where 16 plate glass windows were broken at a Smith's Food King grocery store. One spotter in the area recorded a gust to 74 mph. Streets in a two block area were closed to traffic for a time because of live power lines on the ground. A little later in the day, and further south, thunderstorm winds gusted to 58 mph in South Salt Lake and to 61 mph in Provo. The Salt Lake International Airport had a gust to 54 mph. A little later in the afternoon, lightning struck and destroyed \$11,000.00 worth of fireworks at Cougar Stadium in Provo. The exact time of the strike was not known.
Davis County	16	1430MST			0	0	0	0	Funnel Cloud
									A funnel cloud over the Great Salt Lake was reported by a pilot. The funnel was located just northwest of Antelope Island.
Salt Lake County	16	1545MST			0	0	6	0	Lightning
									Lightning started a fire which caused an estimated one million dollars damage to a home and its contents in Holladay.
Emery County	16	1700MST			0	0	1	0	Flash Flood
Grand County	16	1800MST			0	0	1	0	Flash Flood
									A very heavy thundershower dumped .93 inches of rain in 15 minutes on the town of Greenriver and .80 inches in 30 minutes at Crescent Junction just to the east. Minor flooding occurred when water "piled up" in fields and on roadways.
Kane County	20	1110MST			0	0	1	0	Hail (1.25)
Garfield County	20	1500MST			0	0	1	0	Hail (1.00)
									Funnel Cloud
									A spotter at Duck Creek reported hail 1/2 inch deep on the ground from pea size to golf ball size. A little later, a spotter in Escalante received "quarter" size hail from a heavy thunder shower. The thundershower in Escalante also produced a funnel cloud for a short time.
Salt Lake County	25	1730MST			0	0	1	0	Thunderstorm Winds
									A wind gust of 58 mph was recorded at the Salt Lake International Airport.
Salt Lake County	26	1332MST			0	0	1	0	Hail (1.25)
									A thundershower produced clusters of small hail which were measured at 1.25 inches in diameter in the West Valley City and Kearns areas. Several reports of ping pong or golf ball size hail were received from the same area. No damage was reported.
Tooele County	26	1500MST			0	0	1	0	Thunderstorm Winds
									A Utah Highway Patrol trooper estimated a thunderstorm gust at around 60 mph in Wendover. No damage was reported.
Box Elder County	26	1730MST			0	0	1	0	Thunderstorm Winds
									A Utah Highway Patrol trooper estimated a thunderstorm wind gust at around 60 mph in the Willard Bay area. No damage was reported.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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	
43 VERMONT									
Essex County	29	0830EST			0	0	4	0	Flash Flood
Orleans County	29	0830EST			3	6	5	0	Heavy Rain/Flood
Orleans County	29	0851EST			0	0	3	0	Lightning
Franklin County	29	1315EST			0	0	0	5	High Wind
Franklin County	29	1400EST			0	0	5	0	Flash Flood
Rutland County	29	1400EST			0	0	0	0	Hail (0.50)
Bennington County	29	1413EST			0	0	0	0	Hail (0.50)
Rutland County	29	1530EST			0	0	3	3	High Wind
Chittenden County	29	1530EST			0	2	4	0	Thunderstorm
Washington County	29	1545EST			0	0	4	3	High Wind
Washington County	29	1600EST			0	0	4	0	Flash Flood
Chittenden County	29	1600EST			0	0	3	2	High Winds
Chittenden County	29	1735EST			0	0	3	0	Flood
Rutland County	29	1739EST			0	0	2	0	Flood
Windham County	29	1830EST			0	0	4	0	Floods
Bennington County	29	1830EST			0	0	4	0	Floods
Essex County	29	2200EST			0	0	5	0	Floods
<p>Thunderstorms produced in excess of five inches of rain in less than 12 hours to create severe flood problems. One of the worst flood areas was the community of Island Pond in Essex County. Rt. 111 and Rt. 114 were washed out from the flood waters of the Pherrins River. In Brunswick, Orleans County, three (3) persons died in a car accident and six (6) were injured. Flooded roads hampered rescue efforts as emergency services had to detour an extra 50 miles to get to the accident.</p> <p>In Ryegate, Franklin County, one (1) car was seen floating down the river and five (5) families were isolated by high water. Also in Franklin County, over 100 acres of corn were flattened by high winds.</p>									
44 VIRGINIA									
Fairfax County	09	1030EST			1	4	0	0	Lightning
<p>A lightning bolt killed a golfer in Franconia. Three other golfers and a groundskeeper were also struck and injured. M230.</p>									
Culpeper County	09	1500EST			0	0	?	?	Thunderstorm Winds
Fauquier County									
King George County									
Essex County									
Spotsylvania County									
Stafford County									
Orange County									
Louisa County									
Fauquier County									
Henrico County	09	1630EST			0	0	?	?	Thunderstorm Winds
Lancaster County									
Middlesex County									
Mathews County									
Gloucester County									
James City County									
Williamsburg County									
Accomack County	09	1735EST			0	0	?	?	Thunderstorm Winds
Virginia Beach County									
<p>An area of thunderstorms moved southeast across central and southeastern portions of the state. Many trees and power lines were blown down. Estimated wind gusts to 80 MPH occurred at the Potomac River Bridge on route 301. Wind gusts to 79 MPH on the south island of the Chesapeake Bay Bridge Tunnel. Several homes were damaged by falling trees near Covington. A Dairy barn in Fredericks Hall (Louisa County) was leveled.</p>									
Augusta County	17	1425EST			0	0	4	?	Thunderstorm Winds
<p>Thunderstorm winds tore the roof off a motel in Verona. The storm also knocked out electricity and telephone service for about 7 hours.</p>									
Campbell County	17	1600EST			0	1	?	0	Lightning
<p>Lightning struck a fire station in Lynchburg, setting the roof on fire. One fireman was injured when a second bolt of lightning struck the building.</p>									
Louisa County	17	1600EST			0	0	4	?	Thunderstorm Winds
<p>Thunderstorm winds destroyed a barn and uprooted or damaged 35-50 trees near Green Springs.</p>									
— VIRGINIA									
Augusta County	19	1500EST			0	0	?	?	Lightning
<p>Lightning started a fire that burned 30-50 acres in the Riprap area of the Shenandoah National Park.</p>									
Fairfax County	20	1900EST			0	0	5	0	Lightning
<p>Lightning struck a church, starting a fire that smoldered about 7 hours before being discovered.</p>									
Patrick County	21	1300EST			0	0	3	0	Thunderstorm Winds
<p>Thunderstorm winds blew off a barn roof and uprooted several trees.</p>									
Henrico County	22	0939-1310EST			0	0	5	0	Lightning
<p>Lightning struck several buildings in the county, setting fires mainly in roofs and attics.</p>									
Caroline County	25	1700EST			0	0	5	0	Lightning
Hanover County									
<p>A 2 story frame house was extensively damaged by fire after being struck by lightning. A motel nearby was struck by lightning, causing extensive damage to 3 units. The roof collapsed in those units.</p>									
Statewide		Spring			0	0	0	8	Drought
<p>One of the driest Springs this century led to an extreme drought and catastrophic crop loss. Seventeen counties were declared disaster areas, with another dozen or so expected to be added to the list. Crop losses in the 17 counties is estimated to be 61.5 million dollars. The hardest hit portion of the state is a corridor east of the Blue Ridge and west of Fredericksburg running through Charlottesville and on to the south of Lynchburg.</p>									
45 WASHINGTON ————— NONE REPORTED									
46 WEST VIRGINIA									
Statewide	01	Evening			1	0	?	?	Heavy Rain
<p>An extended heavy rain caused numerous waterways to exit their banks, resulting in extensive urban flooding. Rainfall totals in excess of 5 inches in the Charleston area were reported. An 11 year old boy was washed away and presumed drowned while attempting to recover a ball from the normally tame West Lake Creek in Ansted, Fayette County.</p> <p>On Wertz Avenue in Charleston, residents reported that the street was running red with blood. This resulted from storm sewers overflowing in the Gunnoes Meat Packing plant.</p>									
Wood County	07	Evening			0	0	3	?	Wind
<p>Heavy thunderstorms with accompanying high winds caused several large trees to topple. Nearly 2000 residents were without power for several hours.</p>									
North-Central West Virginia	09	Afternoon			0	1	4	?	Wind, Lightning
<p>Strong thunderstorms moving through the north-central part of the state produced high winds that toppled large trees and caused extensive power outages in the city of Clarksburg. A house at 101 Stuart Street was destroyed when a tree was blown over onto it. A barn was knocked from a foundation in Sardis, Lewis County and roof damage was widespread throughout the area.</p> <p>One injury was reported in the city of Elkins when 17 year old Jerry Ramsedy, Jr. was struck by lightning as he was riding a bicycle.</p>									
West-Central West Virginia	09	Afternoon			0	0	?	?	Wind
<p>Heavy thunderstorms produced high winds recorded at 56 mph in Charleston and 45 mph in the Beckley area. 18,000 customers were without power after large trees were uprooted and felled on powerlines in the Huntington and Charleston areas of the state.</p>									
Roane County	12	Afternoon			0	0	4	0	Lightning
<p>Lightning struck the nearly 100 year old Hebron United Methodist Church in the city of Spencer, destroying the structure.</p>									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

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					KILLED	INJURED	PROPERTY	CROPS	
WEST VIRGINIA									
Randolph County	13	1900EST			0	0	3	0	Wind
									Large trees were uprooted during a brief thunderstorm in Montrose, located in extreme northern Randolph County.
Mason County	14	1500EST			0	0	3	?	Wind
									A suspected microburst destroyed a mobile home and damaged several outbuildings and trees in Leon and Southside, both located in west-central Mason County.
Ohio County	19	1600EST			0	0	3	0	Lightning
									Lightning struck a building in downtown Wheeling, causing extensive damage. The building was located at #2, 22nd Street.
Monongalia County	19	1630EST			0	0	3	0	Wind
									Thunderstorm winds blew off the roof of a mobile home located near the Preston County line on Kingwood Pike. Other minor damage in the county was reported during the short thunderstorm.
Marion County	19	1707EST			0	0	0	?	Wind
									Large trees were uprooted near Fairmont during a brief thunderstorm.
Statewide	20	Late Afternoon- Early Evening			0	0	4	0	Hail, Wind, Lightning
									A line of thunderstorms parallel to the Ohio River crossed the state, triggering numerous reports of hail, lightning, and high winds. In Harrison County, winds of up to 60 mph and golfball size hail were reported. Also reported was marble size hail in Logan County, and in Mingo County, an unconfirmed report of a funnel cloud was received. Large hail was also reported in Barbour, Randolph, Lincoln, Wetzel, and Gilmer Counties.
Central West Virginia	26	Late Afternoon			0	0	?	?	Hail, Wind, Heavy Rain
									Heavy thunderstorms passed through the midsection of the state, depositing large hail and causing numerous reports of large trees being uprooted. Hail of dime size was reported in Webster, Jackson, Clay, and Calhoun Counties while large trees were uprooted in Braxton, Roane, and Calhoun Counties. Four inches of rainfall was reported in the Big Root area of Calhoun County.
Preston County	29	0415EST			0	1	2	0	Lightning
									Lightning struck a home in Tunnelton, injuring an 82 year old woman and causing damage to her home.
47 WISCONSIN									
Amery, Polk Co.	04	0258CST			0	0	?	?	Thunderstorm Winds
									Several large trees were blown down in Amery due to very strong thunderstorm winds.
Tony, Rusk Co.	04	0320-0330CST			0	2	5	4	Thunderstorm Winds
									Thunderstorm downburst winds blew a 14X70 foot mobile home 30 feet from its foundation, and its roof was found 500 feet away. Two people inside the trailer were injured. The winds leveled a garage and downed trees in a nearby yard INE of Tony. The winds also blew off the tops from 2 silos, tore up a side of a steel barn roof, and toppled 5 trees SSE of Tony.
Shell Lake, Washburn Co.	04	0845CST			0	0	5	4	Lightning
									An 80 foot long dairy barn near Shell Lake was destroyed by fire after it was struck by lightning.
Oneida Co.	04	1755CST			0	0	0	0	Funnel Cloud
	04	1755CST			0	0	0	?	Hail (1.75)
	04	1800CST			0	0	0	?	Thunderstorm Winds
									A funnel cloud was sighted 3S of Woodruff and golfball size hail fell at Minocqua. The associated strong thunderstorm winds blew down several large trees NW of Clear Lake.
Niagara, Marinette Co.	04	1900- 1925CST	8.0	100	0	0	5	4	Tornado (F3)
									A tornado touched down 2S of Niagara at Highways 8 and 141, demolished a building next to a restaurant, and slashed some trees. It then skipped east-southeast and destroyed a home and garage, carrying its roof 1/2 mile away 4SE of Niagara. The tornado heavily damaged another home before crossing the Menominee River and into the Carney-Nadeau area of Menominee County, Michigan.
WISCONSIN									
Lake Windpudding, Oneida Co.	04	1935- 1940CST	1.5	100	0	0	5	4	Tornado (F2)
									A tornado hit the south shore of Windpudding Lake, SSE of Hazelhurst, heavily damaging 7 cottages, leveling numerous trees, and causing \$150,000 damage. A shed was blown 30 feet through the air -- a dog inside survived. One of the cottages was smashed by a boat that was wedged halfway in by the tornado.
Hudson, St. Croix Co.	05	1800CST			0	0	3	0	Thunderstorm Winds
									Strong thunderstorm winds wrenched away a garage from a house near Hudson. Some parts were found hundreds of feet away.
Amery, Polk Co.	05	1815CST			0	0	5	?	Lightning
									A 54 stall, two story tall dairy barn was struck by lightning and the resulting fire destroyed the barn.
Sharon, Walworth Co.	06	1730CST			0	0	3	2	Thunderstorm Winds
									Intense thunderstorm winds toppled a tree onto a home, causing considerable damage and breaking a truck's windshield in Sharon.
Pleasant Prairie and Kenosha, Kenosha Co.	06	1800- 1830CST			0	1	4	4	Thunderstorm Winds (60)
									Violent thunderstorm winds gusting to 69 mph downed trees, branches, and wires, and damaged houses and vehicles at Pleasant Prairie and the south side of Kenosha. 11,000 customers lost electrical power when 200 electrical wires were knocked down. Numerous trees including five 50 to 70 foot oak trees were toppled with some trees causing extensive roof and house damage. One person was injured when a tree fell on the car he was in.
Lake Michigan, Racine Co.	06	1840CST			0	0	0	0	Waterspout
									A waterspout was observed over Lake Michigan 2E of Racine's Highway K.
Milwaukee, Milwaukee Co.	06	1915- 1930CST			0	0	0	3	Thunderstorm Winds (52)
									Strong thunderstorm winds gusting to 59 mph downed trees, signs and power lines in Milwaukee and South Milwaukee.
Burlington, Racine Co.	10	1430CST			0	0	5	0	Lightning
									Lightning struck a transmission tower near Burlington and damaged \$60,000 worth of equipment used to transmit cable TV signals.
Madison, Dane Co.	11	1600- 1602CST	0.8	50	0	0	5	4	Tornado (F1)
									A tornado skipped across the northeast side of Madison causing \$150,000 damage. Two homes sustained major damage, five were slightly damaged and two apartments were also damaged. The tornado touched down in a cornfield, came across Portage Road, and hit homes on Melody Lane and Stuart Court. The tornado began to lift, but still clipped the roofs off the apartment buildings on Independence Lane.
Waterloo, Jefferson Co.	11	1645CST			0	0	0	0	Funnel Cloud
									A funnel cloud was spotted just east of Waterloo.
Ixonia, Jefferson Co.	12	1324CST	0.25	25	0	0	0	?	Tornado (F0)
									A small tornado briefly touched down in a cornfield 1 1/2 NE of Ixonia.
Lac La Belle, Waukesha Co.	12	1450- 1456CST			0	0	0	0	Funnel Clouds
									Funnel clouds were observed near Highways 67 and CW just north of Lac La Belle and IS of Mapleton.
Lake Delton, Sauk Co.	12	1546CST			0	0	0	0	Funnel Clouds
									Several funnel clouds were seen near Lake Delton.
Columbia Co.	12	1550- 1620CST			0	0	0	6	Hail (1.75)
	12	1625CST			0	0	2	0	Thunderstorm Winds
									Wind-driven hail up to golfball size cut a 12 mile long, 2 1/2 mile wide swath just north of Portage across the towns of Lewiston and Fort Winnebago, affecting 4,000 acres and damaging another 70 acres of corn IS of Lodi. In all, \$817,000 in crop damage occurred which included \$550,000 in corn, \$112,000 in vegetable crops, \$103,000 in soybeans, \$37,000 in hay, and \$15,000 in oats. Some corn stalks were cut from 6 feet high to 18 inches. Strong thunderstorm winds hit the Pride of America campground near Pardeville, snapping trees and causing minor damage.

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					KILLED	INJURED	PROPERTY	CROPS	
WISCONSIN									
Lowell, Dodge Co.	12	1700CST	0.1	25	0	0	3	0	Tornado (F0)
		A small tornado touched down briefly on a farm on Highway J, 1SE of Lowell, causing damage to trees and a roof of a barn, and tipping over two wagons.							
Dodge Co.	12	1704-1712CST			0	0	0	0	Funnel Clouds
		Funnel clouds were reported near the towns of Clyman and Juneau.							
Neosho, Dodge Co.	12	1745CST	0.1	25	0	0	2	0	Tornado (F0)
		A small tornado briefly touched down on a farm SE of Neosho, damaging a roof and some trees.							
West Bend, Washington Co.	12	1820CST			0	0	?	?	Thunderstorm Winds (56)
		A severe thunderstorm produced winds up to 65 mph at West Bend.							
Racine Co.	12	1842CST			0	0	0	0	Funnel Cloud
	12	1850CST			0	0	0	0	Waterspout
		A funnel cloud was observed at I-94 and Seven Mile Road in Caledonia, and a waterspout was spotted just east of Wind Point.							
Mondovi, Buffalo Co.	15	1215CST			0	0	?	?	Thunderstorm Winds (52)
		Intense thunderstorm winds gusting to 60 mph caused minor tree damage in Mondovi.							
Wood Co.	15	1320CST			0	0	0	?	Thunderstorm Winds
	15	1330CST			0	0	5	4	Lightning
	15	1340CST			0	0	3	?	Thunderstorm Winds
		Violent thunderstorm winds twisted 20 pine trees and uprooted two 75 year old maple trees 1SW of Marshfield. Lightning struck the roof of a 36X64 foot barn north of Pittsville. The resulting fire destroyed the barn and 8,500 bales of hay, and killed seven heifers and two bulls. Thunderstorm winds knocked down trees and destroyed a shed 1W of Nekoosa.							
Waushara Co.	15	1427-1435CST			0	0	4	0	Thunderstorm Winds
		Very strong thunderstorm winds damaged 3 farm buildings 1W of Hancock and toppled trees 7E of Coloma.							
Dodge Co.	15	1505CST			0	0	?	?	Thunderstorm Winds (52)
		Winds gusting to 60 mph from a severe thunderstorm were measured at Fox Lake.							
Fond Du Lac Co.	15	1530-1550CST			0	0	0	0	Funnel Clouds
		Funnel clouds were sighted near Oakfield and Dundee.							
Dane Co.	15	1540CST			0	0	0	0	Funnel Cloud
		A funnel cloud was spotted 2 1/2 W of Madison.							
Clintonville, Waupaca Co.	15	1550CST			0	0	4	0	Thunderstorm Winds
		Intense thunderstorm winds downed power lines and trees in Clintonville. One tree extensively damaged a car, and another fell onto a roof.							
Statewide	16-19				1	0	6	0	Heat Wave
		A heat wave gripped the state from the 16th through the 19th with daily temperatures hovering in the 90s to around 100. On the 19th, an 82 year old woman died in a Twin Lakes (Kenosha County) home from the heat. Nearly 60,000 turkeys died from heat stress in western portions of the state. Several sections of highway pavement buckled and exploded from the heat.							
Door Co.	18	1325CST			0	0	?	?	Thunderstorm Winds (70)
	18	1335CST			0	0	?	?	Hail (1.00)
		A powerful thunderstorm struck Door County, with the Coast Guard station at Plum Island reporting wind gusts to 81mph. Hail up to 1 inch in diameter fell in the Ellison Bay and Gills Rock areas.							
Kunesh, Brown Co.	18	1555CST			0	0	?	?	Hail (1.75)
		A severe thunderstorm dumped golfball size hail at Kunesh.							
Pulaski, Brown Co.	18	1645CST			0	0	0	0	Hail (1.00)
		Hail up to 1 inch in diameter fell from a severe thunderstorm at Pulaski.							
WISCONSIN									
Ladysmith, Rusk Co.	18	1730CST			0	0	?	?	Thunderstorm Winds
		Intense thunderstorm winds knocked down several large trees, two of which landed on homes and caused some damage in Ladysmith.							
Barron Co.	18	1745-1800CST			0	0	3	?	Thunderstorm Winds (52)
		Thunderstorm winds gusting to 60 mph were recorded at Rice Lake airport. The winds ripped off large tree branches which caused minor damage to some homes in Rice Lake, Chetek, and Cumberland.							
Shawano Co.	18	1820CST			0	1	0	0	Lightning
		A young woman was struck by lightning while camping in the town of Red Springs.							
St. Croix Falls, Polk Co.	18	1840CST			0	0	4	0	Thunderstorm Winds
		Very strong thunderstorm winds tore most of the roof off a new exhibit building and downed several trees at the Polk County fairgrounds in St. Croix Falls.							
Winnebago Co.	18	2008-2010CST			0	0	0	0	Funnel Clouds
		Funnel clouds were observed north of Oshkosh and west of Neenah.							
Lindsey, Wood Co.	18	2015CST			0	0	?	?	Thunderstorm Winds (52)
		Severe thunderstorm winds gusting up to 60 mph were reported in Lindsey.							
Polk Co.	19	0120-0130CST			0	0	?	?	Thunderstorm Winds (61)
		Violent thunderstorm winds gusting to 70 mph blew down numerous trees in Frederic, St. Croix Falls, and Osceola.							
Shell Lake, Washburn Co.	19	0124-0128CST			0	0	?	?	Thunderstorm Winds
		Several large trees were toppled by strong thunderstorm winds in Shell Lake.							
Cochrane, Buffalo Co.	19	0500CST			0	0	4	0	Lightning
		Lightning ignited a fire which gutted the Cochrane-Buffalo City VFW hall in Cochrane.							
Wausau, Marathon Co.	19	0720-0730CST			0	0	5	?	Thunderstorm Winds
		Intense thunderstorm winds hit the west side of Wausau, causing \$150,000 in property damage. A couple of large pole buildings and several sheds were heavily damaged. Also, some large trees were toppled.							
Lake Michigan, Racine Co.	19	1730CST			0	0	0	0	Waterspout
		A waterspout was sighted over Lake Michigan just east of Wind Point.							
Milwaukee Co.	19	1730CST			0	0	?	?	Thunderstorm Winds
		A 100 year old tree, four foot in diameter, was among several trees toppled by strong thunderstorm winds in Oak Creek.							
Racine, Racine County	19	1842-1855CST			0	0	?	?	Hail (1.00)
	19	1842-1855CST			0	0	?	?	Thunderstorm Winds
		A severe thunderstorm blew down several large trees and dumped hail up to 1 inch in diameter in Racine.							
Star Prairie, St. Croix Co.	24	1230-1240CST			0	0	4	?	Thunderstorm Winds
		Concentrated thunderstorm winds caused roof damage to a barn, damaged several boats, and uprooted numerous trees in a 200 yard stretch along the south end of Cedar Lake just west of Star Prairie.							
Clear Lake, Polk Co.	24	1400-1410CST			0	0	3	4	Thunderstorm Winds
		Several trees were blown down and many uprooted from intense thunderstorm winds southwest and southeast of Clear Lake. A garage and home on a farm sustained some roof damage and some outbuildings were tipped.							
Little St. Germain Lake, Vilas Co.	24	1415CST	0.25	50	0	0	5	4	Tornado (F1)
		A tornado briefly touched down on South Shore Drive near Little St. Germain Lake. 5 buildings and 2 garages some boats and docks were damaged, and a dozen trees were snapped off at the base.							

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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									
Wausau, Marathon Co.	24	1517CST			0	0	?	?	Hail (0.75)
	24	1530CST			0	0	5	0	Lightning
A severe thunderstorm deposited hail up to 3/4 inch in diameter in Wausau. Lightning struck an antique and furniture store in Wausau, and the resulting fire caused about \$100,000 in damage.									
Fairchild, Clark Co.	24	1530CST			0	0	?	?	Hail (1.75)
Hail up to golfball size fell from a severe thunderstorm near Fairchild.									
Antigo, Langlade Co.	24	1530CST			0	0	4	?	Thunderstorm Winds
Intense thunderstorm winds downed power lines and trees in Antigo. A large motor home was damaged from a falling tree.									
Pepin Co.	24	1620-1630CST			0	0	3	?	Thunderstorm Winds
Strong thunderstorm winds felled trees in Maiden Rock and in Durand. One large tree toppled onto a van.									
Ashwaubenon, Brown Co.	24	1700-1710CST			0	0	5	?	Thunderstorm Winds
Violent thunderstorm winds caused scattered damage throughout Ashwaubenon. A garage was moved 8 inches from its foundation, an amateur radio tower was bent over and several trees and power poles were blown over.									
Union Center, Juneau Co.	25	0115CST			0	0	6	0	Lightning
Lightning struck the roof of a food processing plant and ignited a fire which caused \$3 million damage in Union Center.									
Fort Atkinson, Jefferson Co.	25	0210CST			0	0	3	0	Thunderstorm Winds
Thunderstorm winds flipped a semitractor trailer on its side, extensively damaging the rig and a metal fence in Fort Atkinson.									
Germantown, Washington Co.	25	0215CST			0	0	4	0	Thunderstorm Winds
Intense thunderstorm winds blew a roof off a garage, toppled an 8 inch diameter tree, and knocked over an old wood silo near Germantown.									
Pierce Co.	27	0410-0420CST			0	0	3	?	Thunderstorm Winds
Violent thunderstorm winds downed numerous trees from Prescott to River Falls. 36 trees were toppled in Prescott in a 20 block area. In the west and south sides of River Falls, hundreds of trees were downed or uprooted including 16 very large trees in Glen Park.									
St. Croix Co.	27	0400-0430CST			0	0	5	?	Thunderstorm Winds
Thunderstorm downburst winds carved out several areas of damage across St. Croix County. Hundreds of trees and power lines were toppled from North Hudson to Roberts, Hammond, Baldwin, and Woodville. Over \$100,000 in damage occurred, with Hammond being the hardest hit. Damage included several farm buildings and sheds and a 20X60 foot cement silo.									
Durand, Pepin Co.	27	0445CST			0	0	?	?	Thunderstorm Winds (52)
Strong thunderstorm winds gusting to 60 mph were reported in Durand.									
Laona, Forest Co.	27	1500CST			0	0	?	?	Hail (1.75)
A severe thunderstorm produced hail up to golfball size at Laona.									
Trempealeau Co.	27	1650-1710CST			0	0	4	?	Thunderstorm Winds
Intense thunderstorm winds snapped trees and power lines at Arcadia, Etrick, and Galesville. Etrick was hardest hit as trees fell on two residences and a street light and flag pole were bent over.									
Pewaukee, Waukesha Co.	27	2210CST			0	0	3	?	Thunderstorm Winds
Gusty thunderstorm winds blew a large tree onto a house, damaging a porch and breaking a glass storm door in Pewaukee. The oak tree opened the front door and extended into the living room.									
Milwaukee Co.	27	2230-2310CST			0	0	5	?	Thunderstorm Winds
Intense thunderstorm winds downed numerous trees and power lines across South Milwaukee, Oak Creek, Franklin, and Muskego. A home under construction was leveled in Muskego and the 41-twin outdoor theater in Franklin was damaged. Several vehicles in South Milwaukee were damaged by falling trees.									
WISCONSIN									
LaCrosse Co.	30	0720-0730CST			0	0	?	?	Hail (1.75)
A severe thunderstorm dumped hail up to golfball size 6N of LaCrosse and at the LaCrosse airport.									
Ontario, Monroe Co.	30	0830CST			0	0	5	0	Lightning
Lightning struck and killed 11 head of cattle standing under a tree during a heavy thunderstorm near Ontario.									
Deerfield, Dane Co.	31	1110-1115CST			0	0	?	?	Thunderstorm Winds
A very strong thunderstorm downed several trees and power lines just west of Deerfield. Several acres of tobacco sustained heavy damage by wind-driven hail.									
48 WYOMING									
Weston County, 9E Newcastle	04	1515MST			0	0	?	?	Hail (0.88)
Nickel size hail was reported 9 miles east of Newcastle at 1515MST.									
Washakie County, Worland	04	1600MST			0	0	3	0	TSTM. Wind (58)
Thunderstorm wind gusts to 58 mph were logged at the Worland airport at 1600MST. There was damage to trees, windows, awnings, and power lines.									
Fremont County, Lander	04	1631MST and 1656MST			0	0	3	0	TSTM. Wind (59)
Thunderstorm wind gusts to 59 mph were logged at the Lander airport at 1631MST and 1656MST. Several trees were uprooted and there were power outages.									
Crook County, Aladdin	04	1700MST	2	50	0	0	4	0	Tornado (F1)
A tornado at Aladdin at 1700MST lifted the roof from a house and nearly demolished a large garage. The tornado damaged another house and knocked down several trees. About 1 mile away, it damaged a couple vehicles, ripped off a barn roof, and rearranged some haystacks.									
Sheridan County, Sheridan	04	1706MST			0	0	?	0	TSTM. Wind (58)
A thunderstorm gust to 58 mph was logged at the Sheridan airport at 1706MST.									
Johnson County, Buffalo	04	1747MST			0	0	2	0	TSTM. Wind (??)
Thunderstorm wind gusts blew down several trees in Buffalo at 1747MST.									
Campbell County: Gillette and 50N Gillette	04	1820MST and 1845MST			0	0	?	0	TSTM. Wind (61)
	04	1900MST			0	0	2	?	TSTM. Wind (??)
Winds gusts of 61 mph were logged with thunderstorms at the Gillette airport at 1820MST and 1845MST. Fifty miles north of Gillette at 1900MST, high winds with a thunderstorm tore the porch off a house and moved several haystacks.									
Laramie County, Cheyenne	09	1540MST			0	0	0	0	TSTM. Wind (58)
At 1540MST, a gust to 58 mph occurred with a thunderstorm at the Cheyenne airport.									
Park County, Powell	09	Unknown			0	0	2	0	TSTM. Wind (??)
High winds with a thunderstorm at Powell moved a metal storage shed 50 feet, destroying it.									
Laramie County: 25M Cheyenne	13	1627MST			0	0	0	0	TSTM. Wind (75)
Cheyenne	13	1700MST			0	0	0	0	TSTM. Wind (65)
At 1627MST, gusts to 75 mph were logged with a thunderstorm 25 miles west of Cheyenne at a research station. At 1700MST, a gust to 65 mph was recorded with a storm at the Union Pacific Railroad tower on the south edge of downtown Cheyenne.									
Carbon County, Rawlins	14	1505MST			0	0	0	0	TSTM. Wind (58)
Gusts to 58 mph occurred with a thunderstorm at the Rawlins airport at 1505MST.									
Big Horn County, Otto	14	Unknown			0	0	3	0	TSTM. Wind (??)
At Otto, thunderstorm winds blew a tree over, squarely onto a car.									
Laramie County, Cheyenne	22	1750MST			0	1	0	0	Lightning
A person was struck and injured by lightning at 1750MST at Frontier Park, on the west side of Cheyenne.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1986

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			
WYOMING																						
Laramie County, Pine Bluffs	31	1904MST			0	0	5	?	Hail (1.75)													
Up to golf ball size hail in Pine Bluffs at 1904MST damaged vehicles, and the roofs and windows of buildings.																						
Platte County, 7S Wheatland	31	Evening			0	0	4	?	Hail (0.75)													
At an Air Force installation 7 miles south of Wheatland, vehicles were damaged by 1/2 to 3/4 inch hail, which covered the ground.																						
Johnson County, Sussex	31	Unknown			0	0	3	0	TSTM. Wind (??)													
High winds with a thunderstorm at Sussex uprooted several large trees, ripped the tin roofs off a cow shed and house, and scattered hay windrows.																						
49 ALASKA, Northern ————— NO REPORT RECEIVED																						
49 ALASKA, Southern ————— NO REPORT RECEIVED																						
49 ALASKA, Southeastern -																						
Juneau	17	1930YST			0	0	0	0	Thunder & Lightning													
An extremely rare occurrence took place in the Juneau area during the evening hours of the 17th of July, 1986. A line of thunderstorms that developed over British Columbia in moist unstable air moved westward into the Juneau area. Between 6 pm and 8 pm, local time, frequent lightning and thunder extended from 50 miles south to 40 miles north of Juneau. No high winds or heavy rain were associated with the storm, but pilots reported grape size hail aloft. Until now, only one or two brief thunderstorms have occurred during the entire year.																						
50 HAWAII																						
Hawaii, Maui, and Oahu	22-23				2	0	6	0	Hurricane ESTELLE													
Hurricane ESTELLE moved westward just south of the Hawaiian Islands on July 22nd and 23rd. Its center passed within 120 miles of South Point at midnight. A heavy swell pounded the Puna and Kau shorelines during the afternoon hours of the 22nd, a time when an unusually high tide combined with high water caused by strong northeast winds parallel to the coast. Damage to shoreline vacation homes and roadways was in excess of \$2 million. Also, minor wave damage to roadways occurred on east Maui. Two drownings near Portlock on Oahu were blamed on the rough water.																						
51 PUERTO RICO ————— NONE REPORTED																						
52 VIRGIN ISLANDS ————— NONE REPORTED																						
53 PACIFIC ————— NONE REPORTED																						

STORM SUMMARY

JULY 1986

TYPE	ALABAMA	ARIZONA	ARKANSAS	CALIFORNIA	COLORADO	CONNECTICUT	DELAWARE	FLORIDA	GEORGIA	IDAHO	ILLINOIS	INDIANA	IOWA	KANSAS	KENTUCKY	LOUISIANA	MAINE	MARYLAND & DC	MASSACHUSETTS	MICHIGAN	MINNESOTA	MISSISSIPPI	MISSOURI	MONTANA	NEBRASKA	NEVADA	NEW HAMPSHIRE
TORNADOES																											
Number				1	1			1	1		1	SEE PAGE 76	9	1	2	SEE PAGE 76				6	4	1					12
Days				1	1			1	1		1	SEE PAGE 76	3	1	1	SEE PAGE 76				4	4	1					7
Deaths																											
Injuries																											
Property Damage					4			3	4			SEE PAGE 76	1		1	SEE PAGE 76				13	6	5				1	
Crop Damage													6		4	SEE PAGE 76				3	3					6	
HAIL																											
Deaths																											
Injuries																											
Property Damage	4	3	?	?	5				5		4		6	4	4		4	?			6	?	3			6	
Crop Damage	?		?		5			?	?		4		7	5	4		o/c	?			7	?				8	
THUNDERSTORM WINDS																											
Deaths																											
Injuries	1		8					2	8		1		16	4	1			1		4	4	1	1	2			
Property Damage	5	6	5		5		4	5	6	4	6		6	5	4		5	6		4	5	6	6	3		7	
Crop Damage	?							4	4		4		6	4			?				?	4	5	5		6	
HIGH WINDS																											
Deaths																											
Injuries											2										1						
Property Damage											1															5	
Crop Damage											4																
LIGHTNING																											
Deaths	2			6			1	2	3		5			2	3			1		2	6	2					
Injuries	2							11	4	1	5			5	5			?		4	4	2				3	
Property Damage	5	3	5		3	4		4	6	3	5		4	5	5		3	?	4	4	5	2			5	4	
Crop Damage													3														
FLASH FLOODS																											
Deaths																			1								
Injuries																											
Property Damage	?	6		?						3	5		5	6	3				6		4	5			5	5	
Crop Damage											?		4	4	2				5			3			4		
FLOODS																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage					5									5												3	6
HEAVY SNOWSTORMS AND BLIZZARDS @																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
ICE STORMS #																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
HURRICANES AND TROPICAL STORMS																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
ALL OTHERS																											
Deaths	11		14	4					30		1											7					
Injuries				?				296	?		6																
Property Damage	6								?		3											6					
Crop Damage	8							8									5	8				?					

SEE REFERENCE NOTES FOR STORM DAMAGE CATEGORIES

STORM SUMMARY

JULY 1986

TYPE	NEW JERSEY	NEW MEXICO	NEW YORK	NORTH CAROLINA	NORTH DAKOTA	OHIO	OKLAHOMA	OREGON	PENNSYLVANIA	RHODE ISLAND	SOUTH CAROLINA	SOUTH DAKOTA	TENNESSEE	TEXAS	UTAH	VERMONT	VIRGINIA	WASHINGTON	WEST VIRGINIA	WISCONSIN	WYOMING	ALASKA	HAWAII	PACIFIC	PUERTO RICO	VIRGIN ISLANDS	NATIONAL DEATHS & INJURY TOTALS
TORNADOES																											
Number		1	3	3	12	2			1		1	12		3					SEE PAGE 76	7	1						
Days		1	2	2	5	1			1		1	4		2					SEE PAGE 76	4	1						
Deaths				3																							3
Injuries			7	10							3																40
Property Damage		?	7	5	5	6			4		4	5		3					SEE PAGE 76	6	4						
Crop Damage		?	3	?	5	5				4	4			?						5							
HAIL																											
Deaths																											
Injuries																											
Property Damage	?	?		?	7	4	?		2		5	5		?	1					?	5						
Crop Damage				5	?	?	?		3		4	7								6	?						
THUNDERSTORM WINDS																											
Deaths									1																		3
Injuries				4					15		3	9															91
Property Damage	?	4	6	6	6	6	2		6		5	5		5	5	2	4			3	4						
Crop Damage			3	?	5	?	?				4	3		?			?			5	?						
HIGH WINDS																											
Deaths																											
Injuries									1																		3
Property Damage									4																		3
Crop Damage			4													4											
LIGHTNING																											
Deaths				1		1			2			1					1										20
Injuries		3	12	5		4			7		1	1					5										108
Property Damage			7	6	5				6		5	5		4	6	3	5			1	1						
Crop Damage			5													?				4							
FLASH FLOODS																											
Deaths																											1
Injuries																											2
Property Damage		4	2	3			4		6		4	4		?	?	6											
Crop Damage			4				?		3																		
FLOODS																											
Deaths																											1?
Injuries																											?
Property Damage																											
Crop Damage			5						1							6											
HEAVY SNOWSTORMS AND BLIZZARDS @																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
ICE STORMS #																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
HURRICANES AND TROPICAL STORMS																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
ALL OTHERS																											
Deaths				7							11																98
Injuries																											307?
Property Damage				?	6																						
Crop Damage			5	8	?												8										

SEE REFERENCE NOTES FOR STORM DAMAGE CATEGORIES

STORM SUMMARY

JULY 1986

STATE	TORNADOES				HAILSTORMS			WINDSTORMS			LIGHTNING			FLOODING			@HEAVY SNOWSTORMS AND BLIZZARDS				# ICE STORMS			o ALL OTHER						
	NUMBER	DAYS	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					
Indiana Louisiana Tennessee West Virginia	2	2			3			?	?	1	5	2	1													5	7	5	4	?
Numbers of deaths and injuries above are included in monthly totals on page 75.																														

STORM DATA AND UNUSUAL WEATHER PHENOMENA

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED ¹ DAMAGE		CHARACTER OF STORM
					KILLED	INURED	PROPERTY	CROPS	

LATE REPORTS

4 CALIFORNIA, Northern

MARCH 1986

Kingsburg area; Fresno, Kings, and Tulare Counties	08 1700PST 08 1835PST	4	50	0	0	?	?	Hail (1.25) Tornado (F1)
A severe thunderstorm moved southeast across the region during the late afternoon, generating numerous reports of hail and funnel clouds. A tornado touched down twice, about four miles apart near Kingsburg where minor damage was reported.								
Fresno, Fresno County	10 1500PST			0	0	2	?	Hail (0.75)
A severe thunderstorm produced 3/4 inch hail and local flooding near the city of Fresno.								

CORRECTIONS

41 TEXAS, Western

MAY 1986

The following reports from pages 62 and 63 remain the same except that death codes have been added:

Schleicher County	09 0340CST			1	0	?	?	Flash Flood
Torrential rain caused flash flooding and the drowning of one person. The man, publisher of the county newspaper, drowned after high water washed his car from a Farm-to-Market Road near Eldorado. His body was found about 6 hours later in 2 to 3 feet of water. M39V								
Howard County	24 1823CST	Short Narrow		0	0	?	?	Tornado (F0) Flash Flood
A small boy drowned when a flash flood ripped the boy from his mother's arms as she and her husband tried to get out of the rushing waters after leaving their pickup truck. The truck was carried about 1/2 mile downstream from about 10 miles northeast of Big Spring. A tornado was reported by a Department of Public Safety Patrol Officer just north of Big Spring. The tornado was in open fields. M01V								

STORM SUMMARY

CORRECTIONS

MARCH 1986

1. CALIFORNIA - Page 41 - Number of Tornadoes = 3 (vice 2).
2. CALIFORNIA - Page 41 - Days of Tornadoes = 3 (vice 2).

MAY 1986

1. INDIANA - Page 69 - Number of Tornadoes = 7 (vice 8).
2. PENNSYLVANIA - Page 68 - Number of Lightning Injuries = 0 (vice 1).
3. WEST VIRGINIA - Page 68 - Number of Lightning Injuries = 0 (vice 1).
4. National Deaths & Injury Totals - Page 68 - Lightning Injuries = 16 (vice 18).

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.

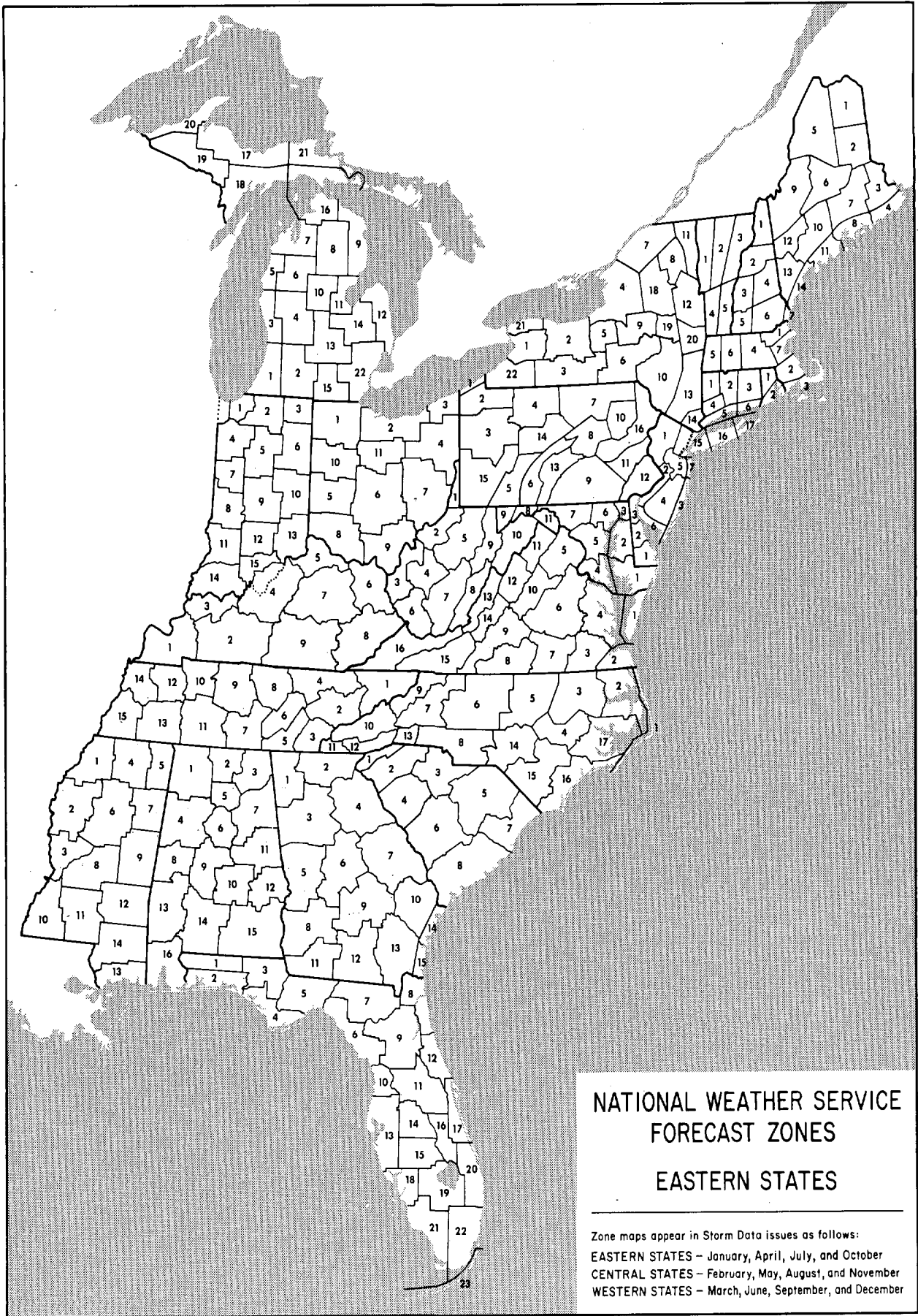
(F6-F12) (319 mph to Mach 1, the speed of sound):
The maximum wind speeds of tornadoes are not expected to reach the F6 wind speeds.

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

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



USCOMM-NOAA-ASHEVILLE, N.C. 1986-2300



NATIONAL WEATHER SERVICE
 FORECAST ZONES
 EASTERN STATES

Zone maps appear in Storm Data issues as follows:
 EASTERN STATES - January, April, July, and October
 CENTRAL STATES - February, May, August, and November
 WESTERN STATES - March, June, September, and December

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