

# STORM DATA

## WITH LATE REPORTS/CORRECTIONS



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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.

## C O N T E N T S

Cover: Only one month after the extensive floods of late May and early June 1987, flash flooding returned to the South Texas Hill Country on July 17th after overnight rains of as much as 11.50 inches. This time, 10 persons drowned when a bus and van carrying 4 adults and 39 teenagers were swept into the Guadalupe River by the floodwaters. Pictured, a pickup stands idle as its driver decides whether or not to cross Turtle Creek, here running 3.5 feet over Texas Highway 16 on July 17th. (See FLASH FLOODING in SOUTH-CENTRAL TEXAS, pages 14 through 16.) ---Photo by Susan M. Sander, The Kerrville Daily Times. Page

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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 all editions.

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

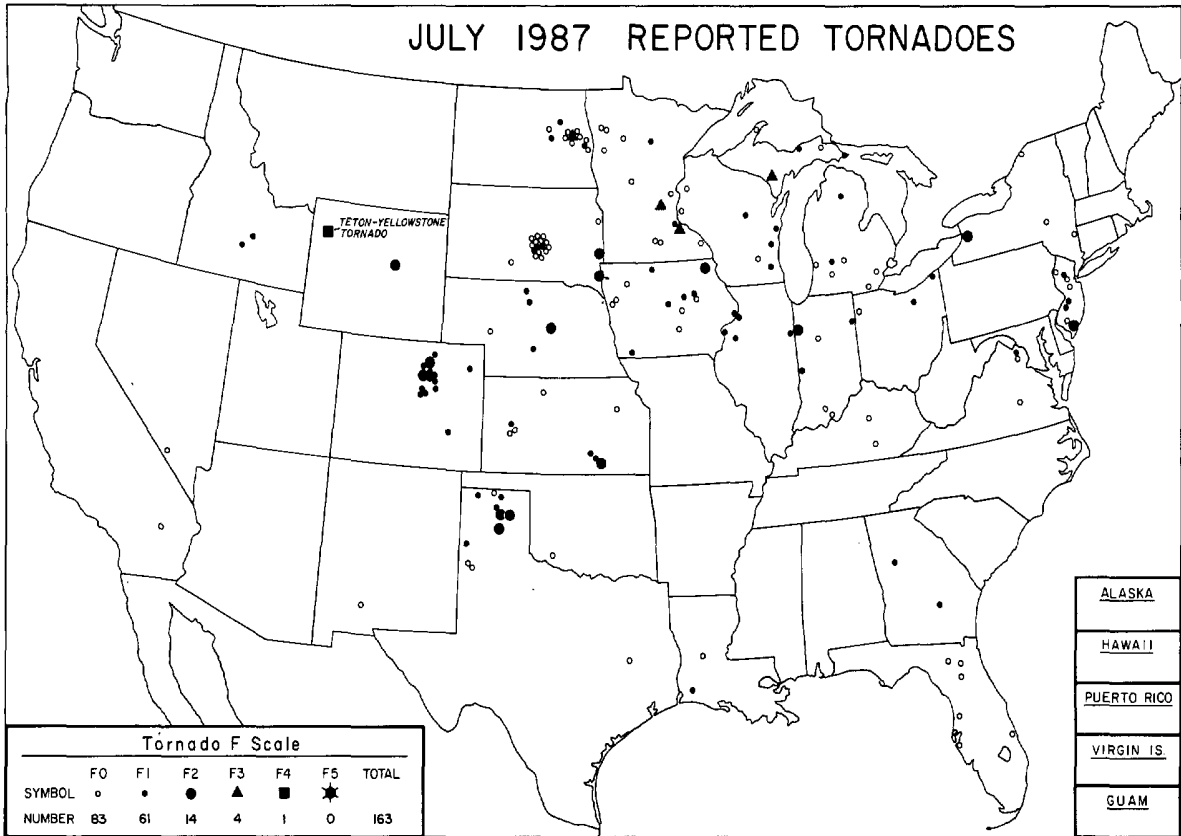
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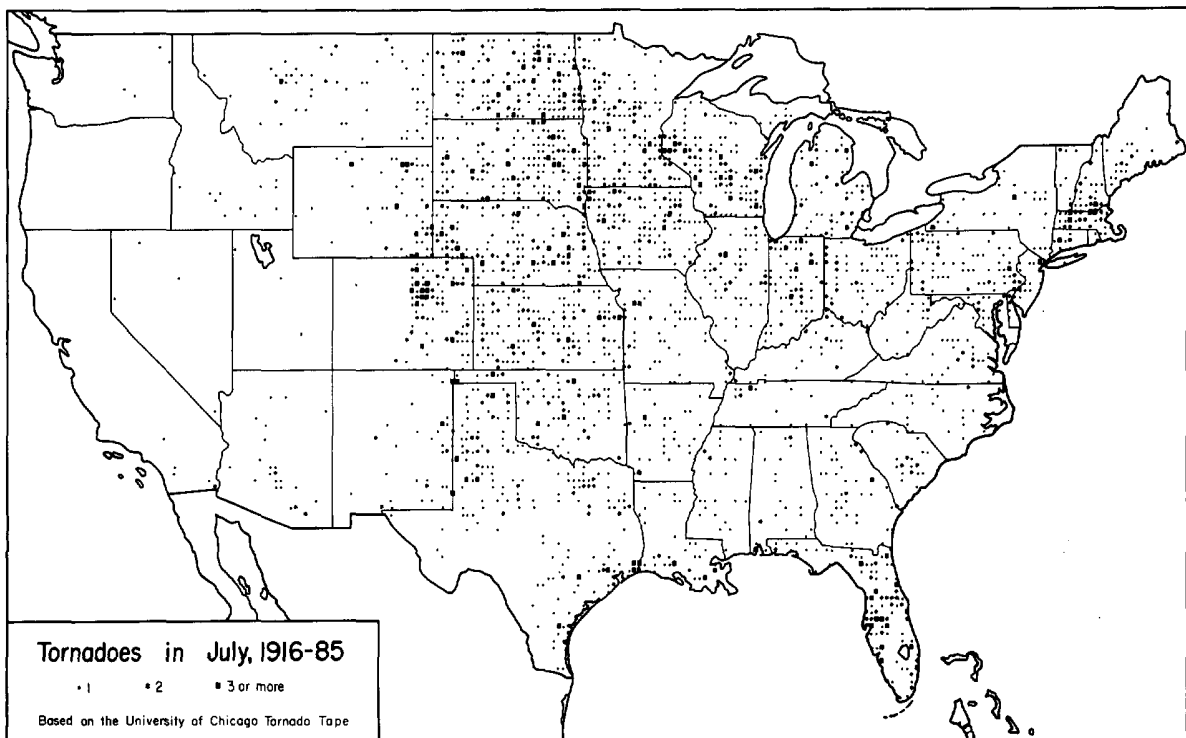
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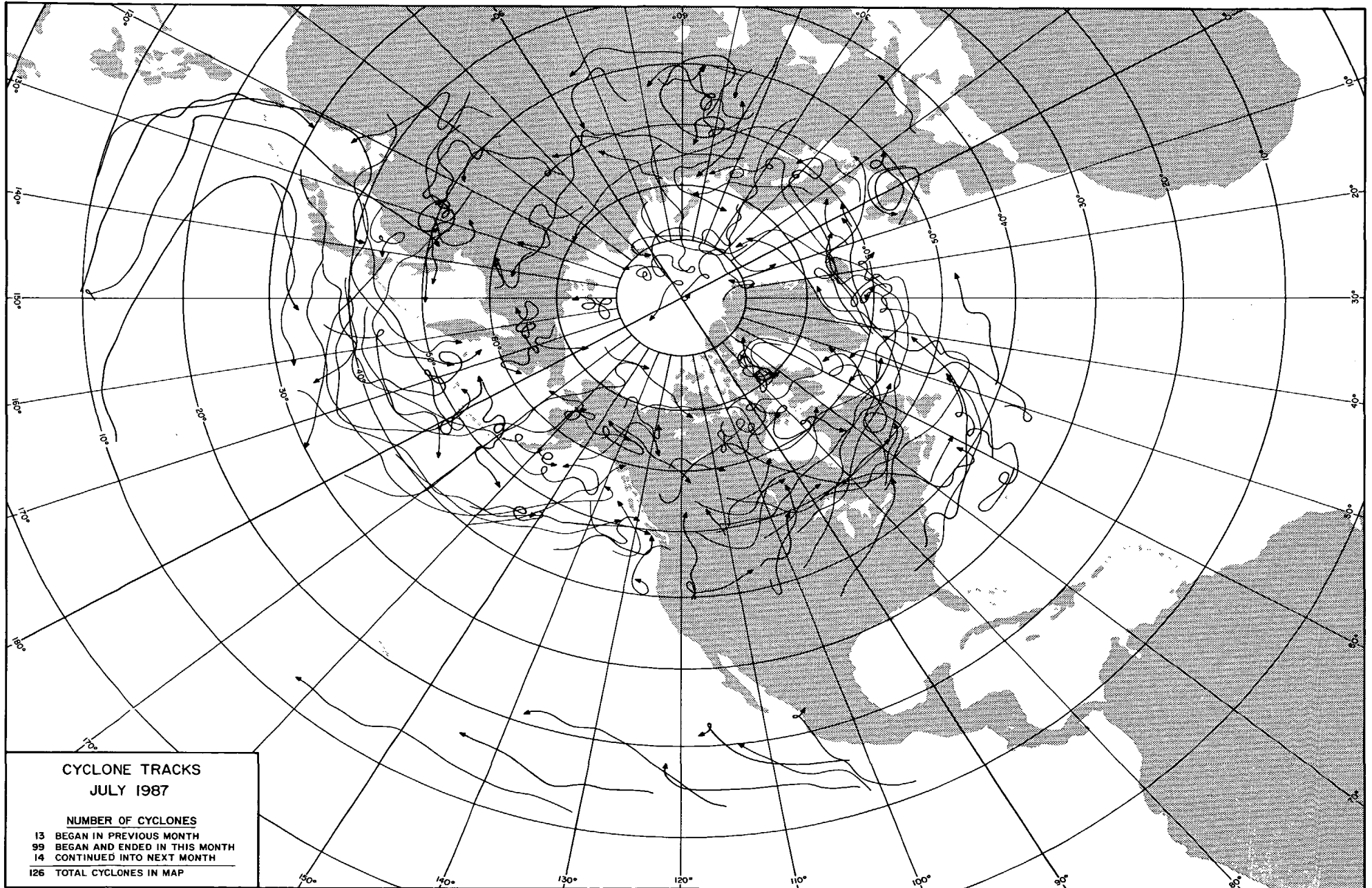
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Asheville, NC 28801-2696

# OUTSTANDING STORMS OF THE MONTH



● COMPLETE REPORT RECEIVED	● 1AL	● 7DE	● 14KS	● 21MN	● 28NJ	● 33OH	● 39SD	● 44VA	● 49AK(SE)
○ PRELIMINARY REPORT RECEIVED	● 2AZ	● 8FL	● 15KY	● 22MS	● 29NM	● 34OK	● 40IN	● 45WA	● 50HI
○ REPORT NOT RECEIVED	● 3AR	● 9GA	● 16LA	● 23MO	● 30NY(O)	● 35OR	● 41TX(N)	● 46WV	● 51PR
(N) northern (W) western	● 4CA(N)	● 10ID	● 17ME	● 24MT	● 30NY(C)	● 36PA(E)	● 41TX(S)	● 47WI	● 52VI
(S) southern (C) central	● 4CA(S)	● 11IL	● 18MD	● 25NE	● 30NY(W)	● 36PA(W)	● 41TX(W)	● 48WY	● 53PC
(E) eastern (O) coastal	● 5CO	● 12IN	● 19MA	● 26NV	● 31NC	● 37RI	● 42UT	○ 49AK(N)	
(SE) southeastern	● 6CT	● 13IA	● 20MI	● 27NH	● 32ND	● 38SC	● 43VT	● 49AK(S)	





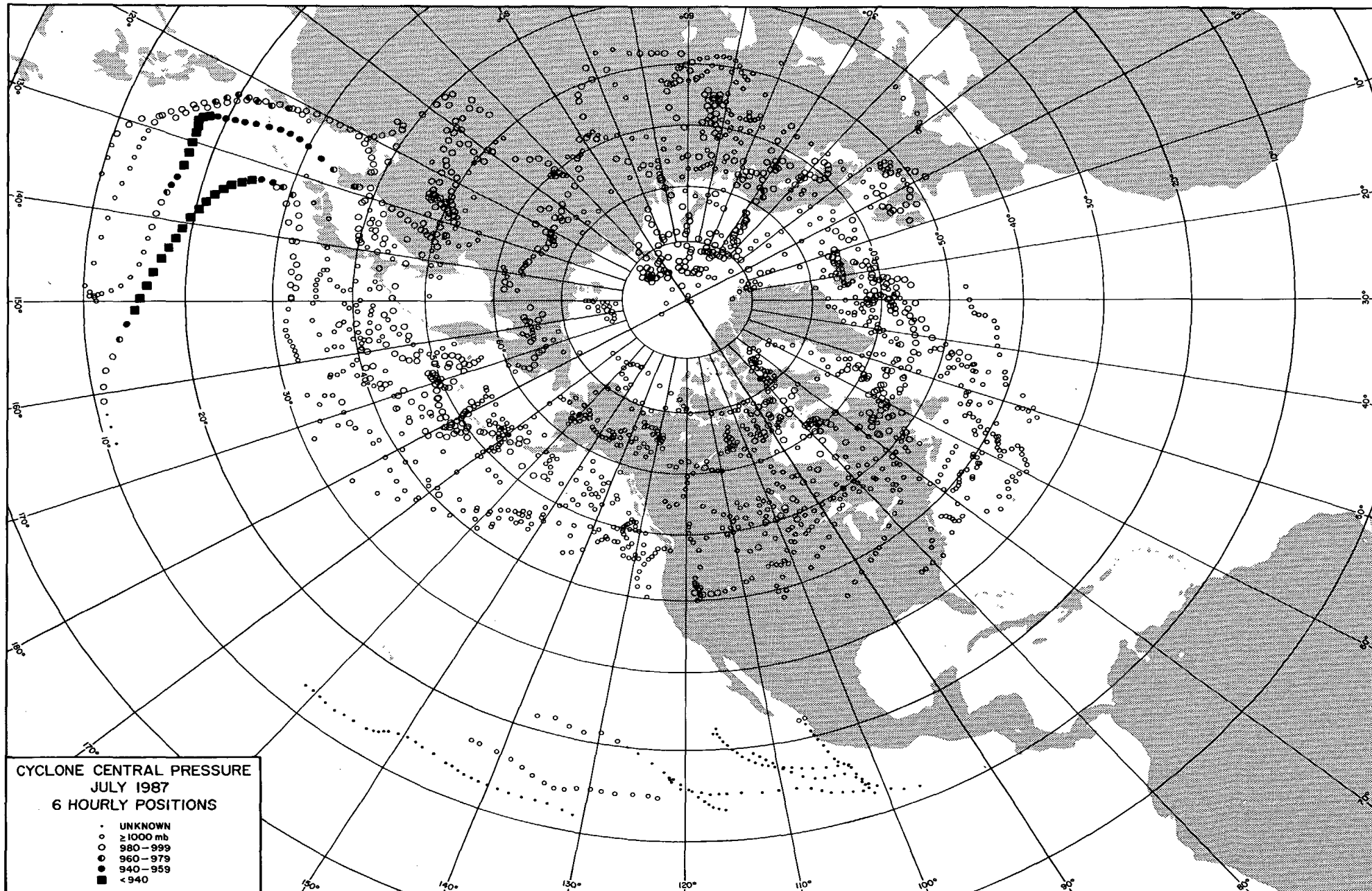
**CYCLONE TRACKS  
JULY 1987**

**NUMBER OF CYCLONES**

- 13 BEGAN IN PREVIOUS MONTH
- 99 BEGAN AND ENDED IN THIS MONTH
- 14 CONTINUED INTO NEXT MONTH

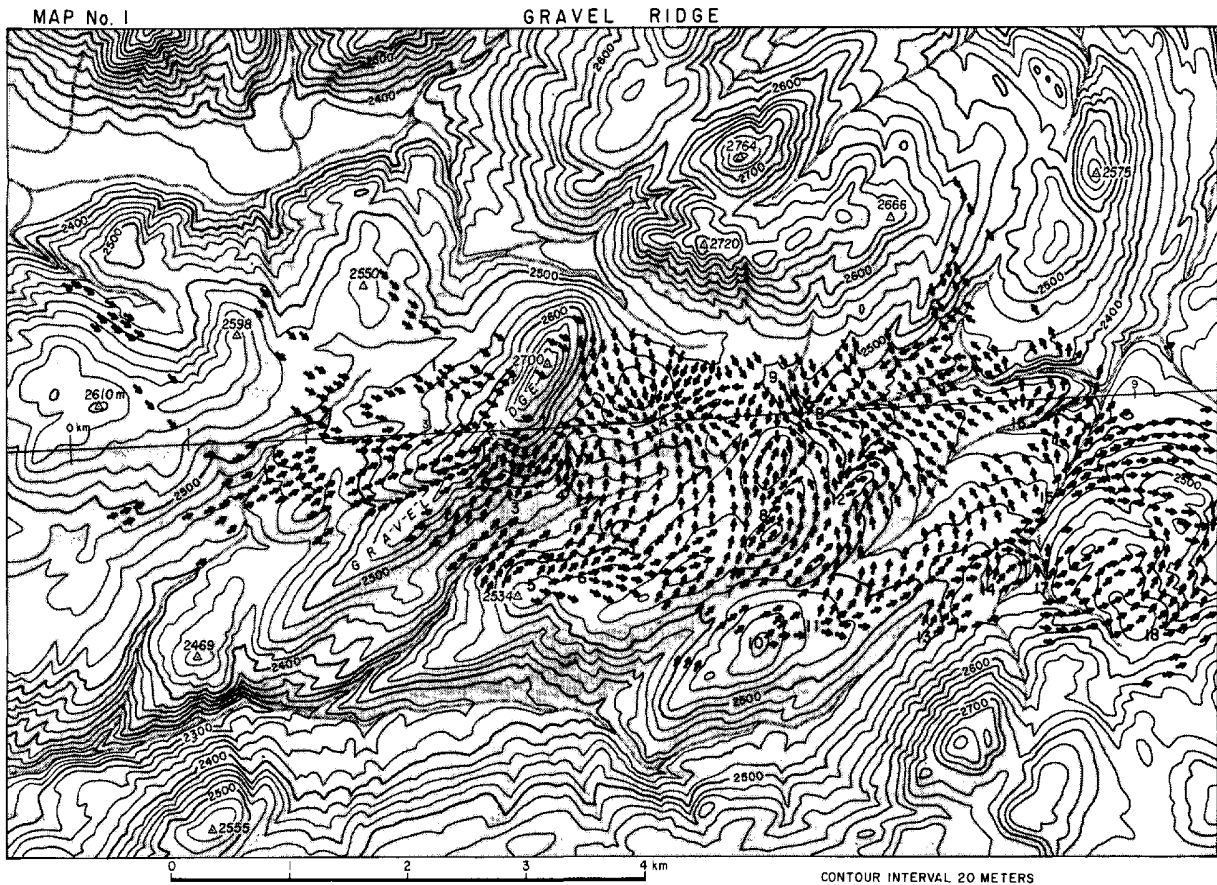
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- 126 TOTAL CYCLONES IN MAP





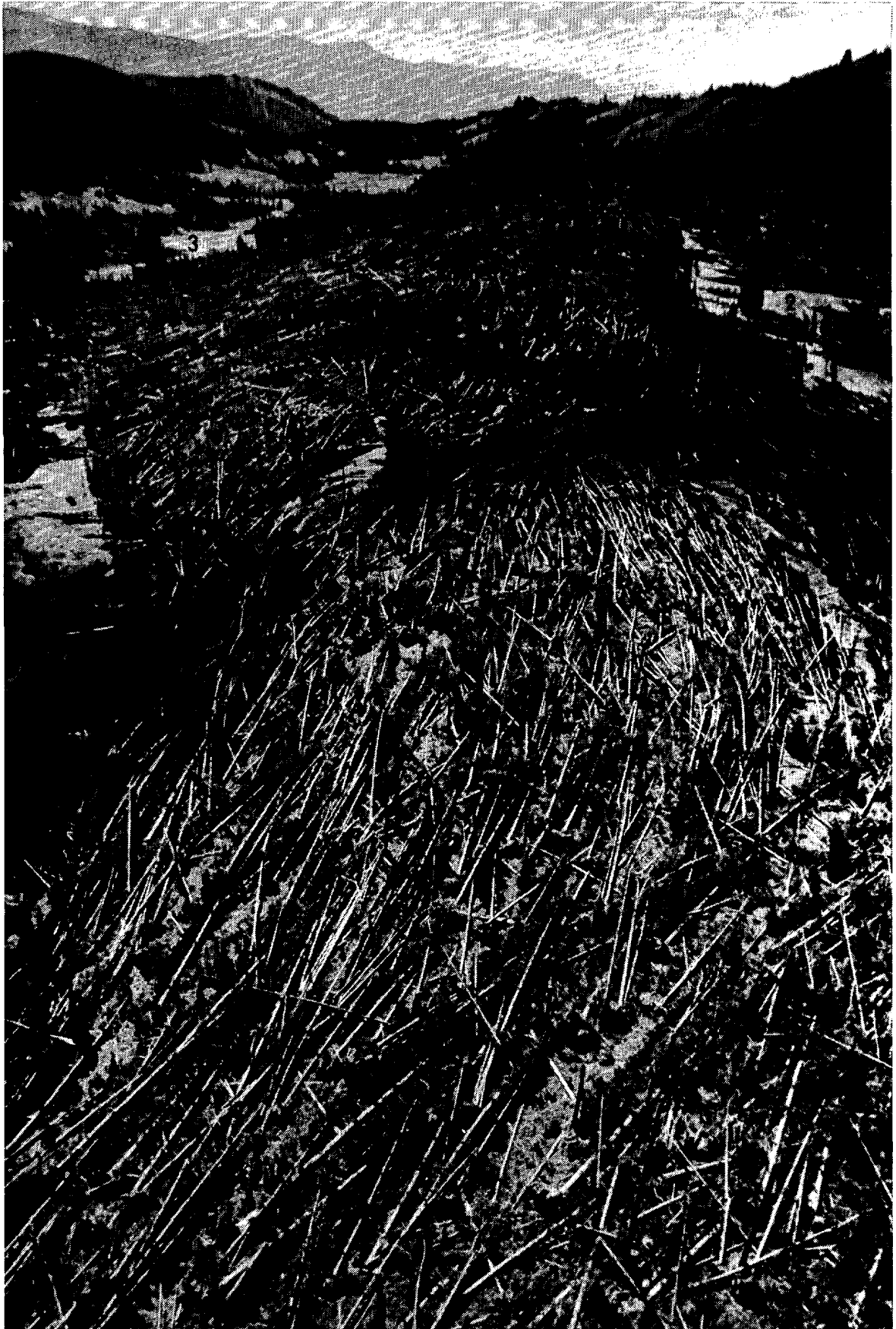
TORNADO in the TETON WILDERNESS of WYOMING --- continued



The first of four local maps that show the patterns of tree fall along the tornado's damage path (see map on previous page for location). The analyses, prepared from high resolution, overhead aerial photos, revealed that the overall damage was caused by a mesocyclone. In all, four tornadic swirl patterns (lettered) and 72 divergence patterns, mostly microbursts (numbered), were confirmed. ---Map by T. Theodore Fujita, The University of Chicago.

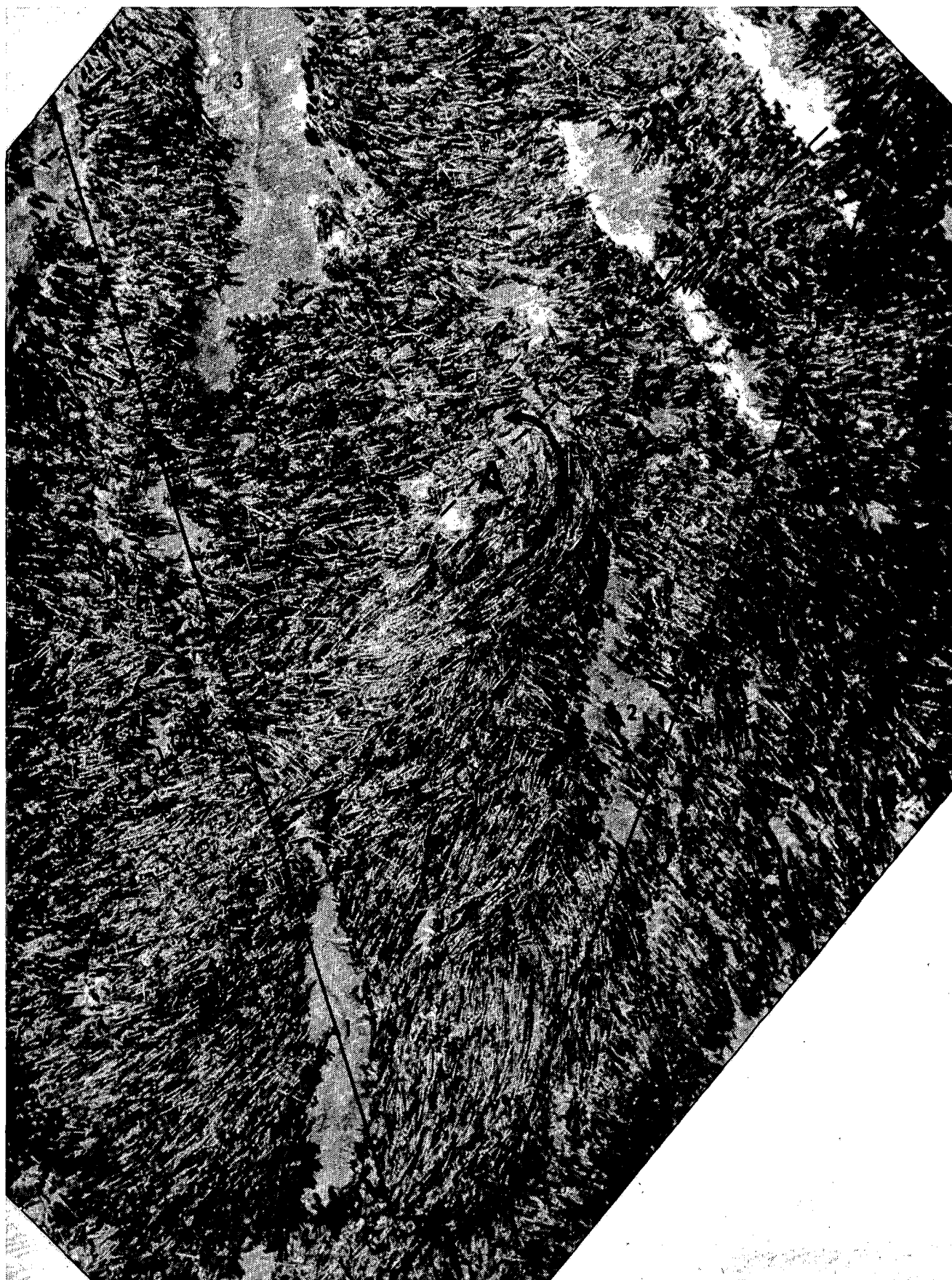


Aerial, west-northwest view of the damage path near its start. Point A corresponds to tornadic swirl A in the map at top; Gravel Ridge is at the left edge of the photo. ---Photo by James Partacz, The University of Chicago.



Snapped and uprooted trees as seen looking south from a helicopter toward the tornadic swirl point A. The damage intensity at this point was rated F4. The mesocyclone's center moved from right to left across the frame along the dashed line descending from Gravel Ridge. ---Photo by Bill Conratt, The Jackson Hole Guide.





High resolution, overhead aerial view of the tree damage at the tornadic swirl point A. The photo on the previous page was taken from c (camera) and the angle of view is indicated. Numbers 1, 2, and 3 mark corresponding positions within the two photos. ---Photo property of the University of Chicago.

TORNADO in the TETON WILDERNESS of WYOMING ---- continued

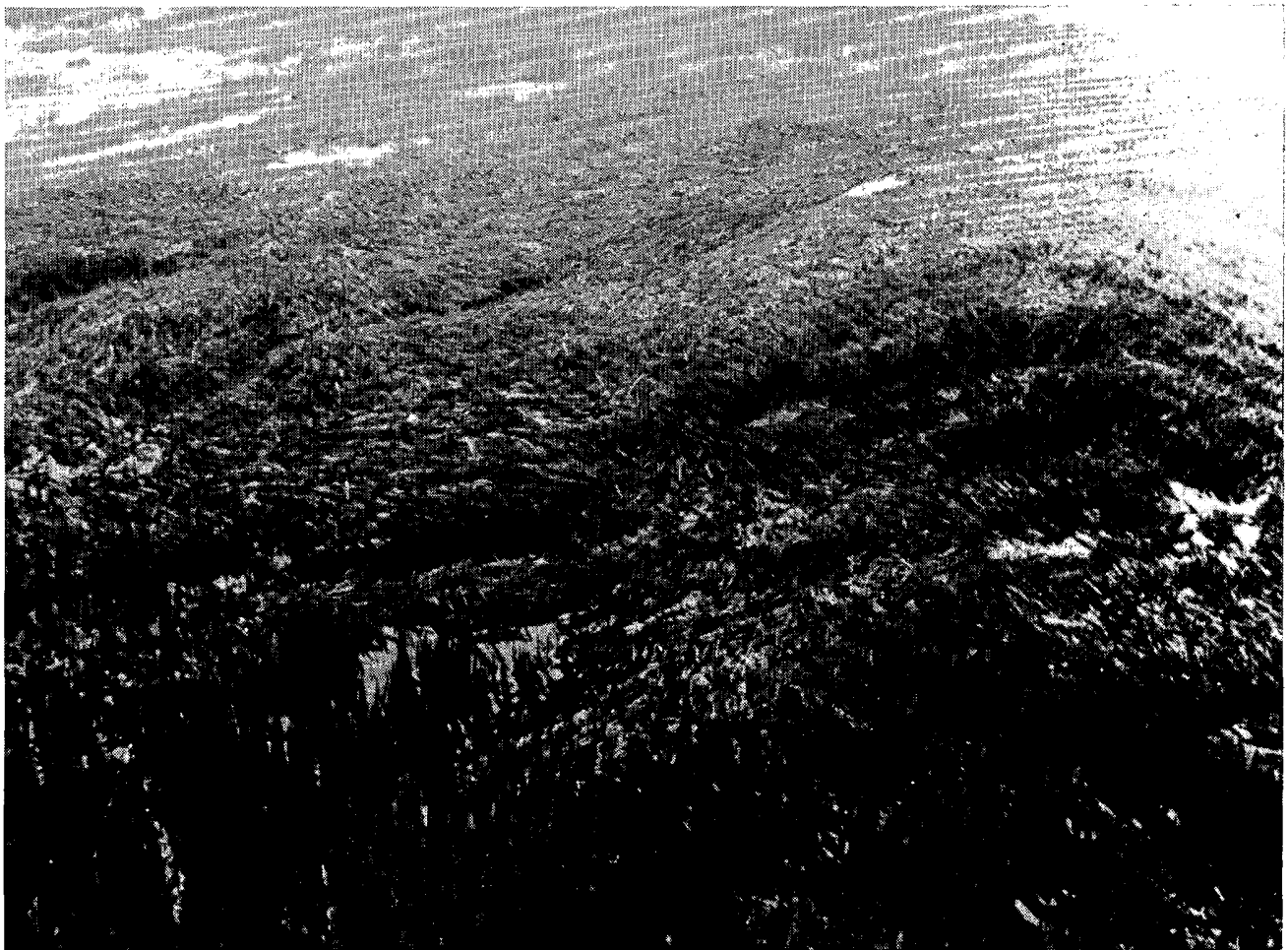


Forest Service personnel survey the 2.5 foot diameter stump of a large conifer that was snapped off at about 13 feet above the ground.

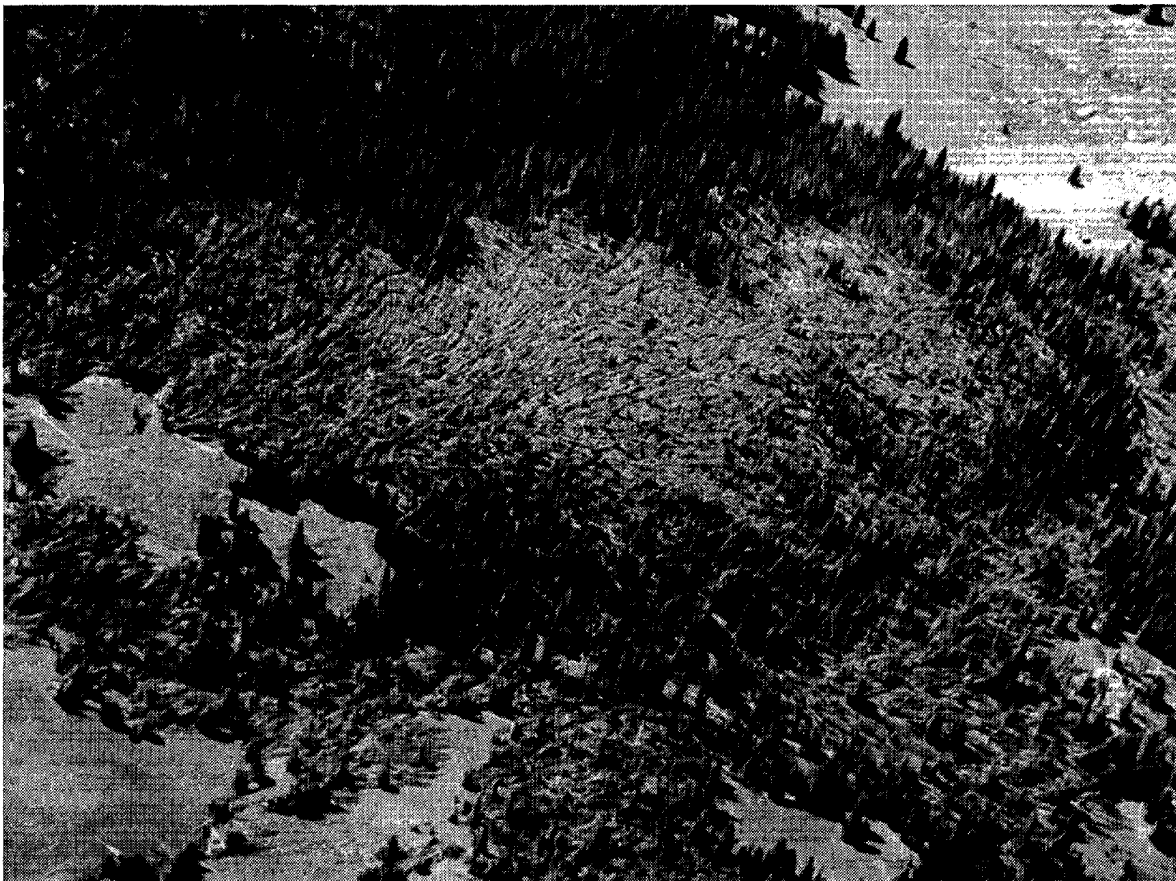


Dirt-filled root systems mark the location where whole trees were dropped by the tornado's wind after having been pulled from the ground and carried some distance. There were no holes or disturbances in the nearby ground to indicate the trees' source.

---Both above photos by Bradley Churchill, The University of Chicago.



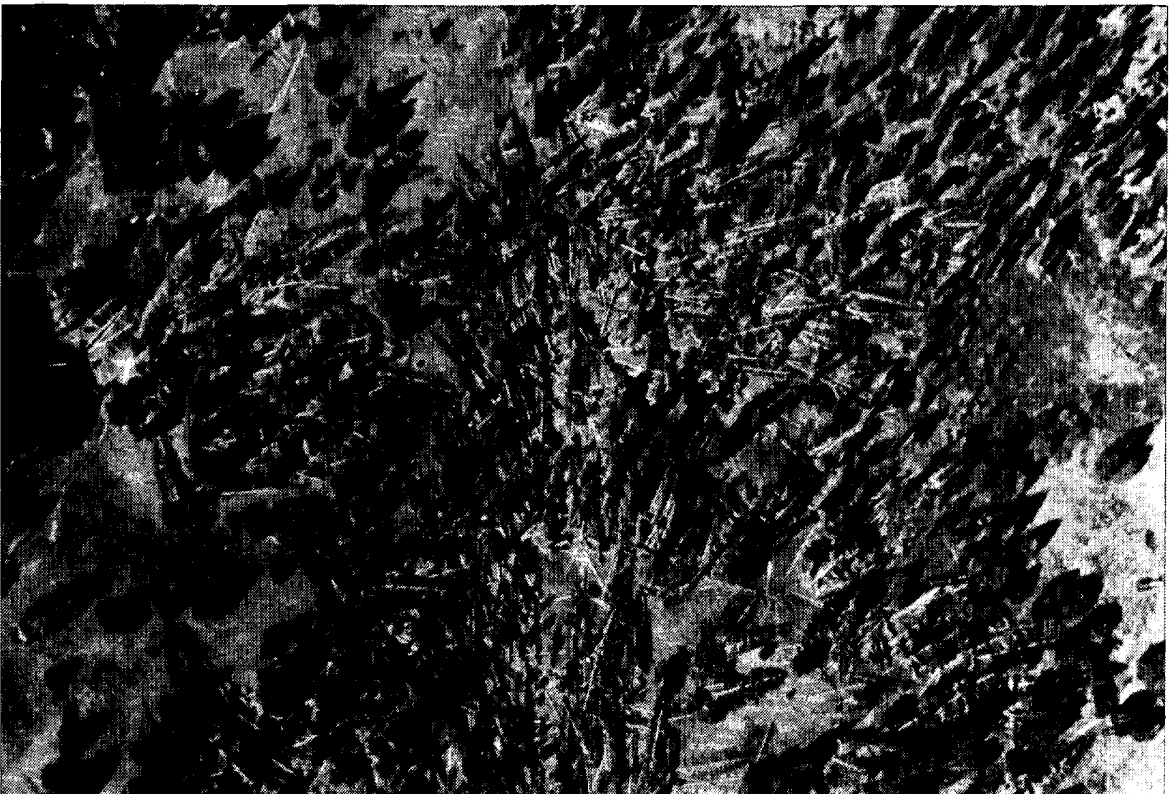
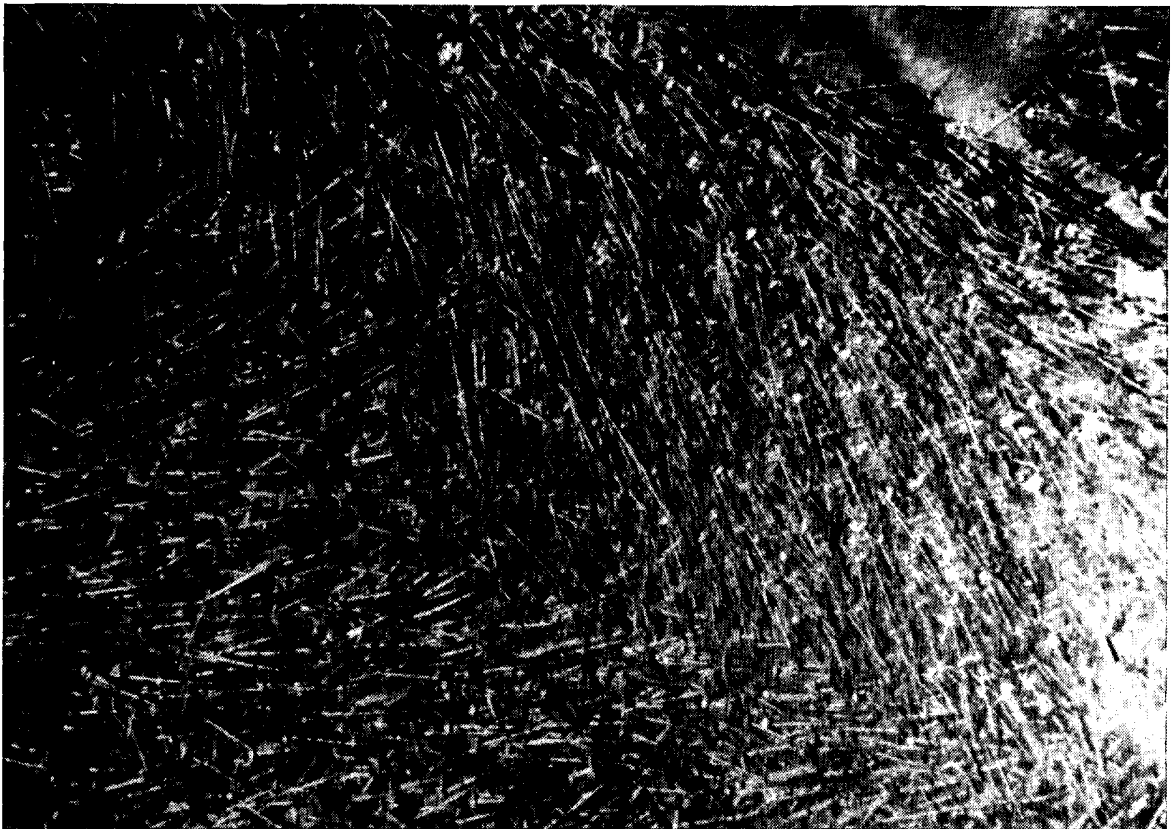
Thousands of mowed down trees litter the mountainous terrain approximately 5 miles along the path of damage. Few trees were left standing within the path in this area. ---Photo by James Partacz, The University of Chicago.



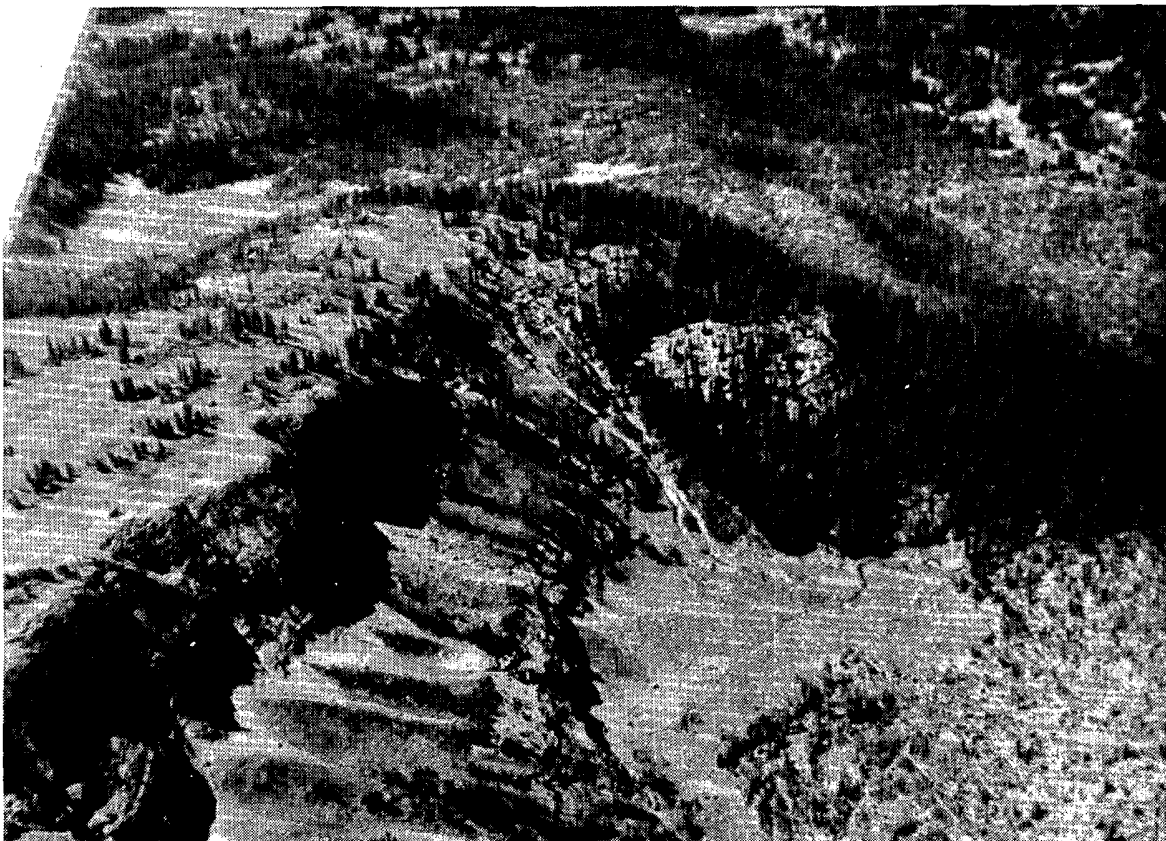
A series of three divergent (spreading fanlike) tree fall patterns shows where corresponding microbursts within the mesocyclone circulation, descended to the ground.



Close-up, overhead view of one of the divergent tree fall patterns marking the location where a microburst descended to the ground.



Crossing divergence patterns in both above photos illustrate the sequence of microburst occurrences as the mesocyclone center moved from the left to right side of the shown areas, passing just outside of the top of the photos. At top, trees were first blown down from left to right across the bottom of the picture, then a second microburst downed the trees from upper left to lower right. At bottom, trees were first downed from the bottom to the top of the photo, and then from the left to the right side. Note that in the second case the microbursts were much smaller, leaving narrower paths.



Tree destruction, across the photo top and lower right, continued across a glacial cirque about two-thirds of the way along the damage path. The ridge of the cirque marks the Continental Divide. The tornado passed over its highest elevation of 3070 meters at this location.



A cluster of felled trees along the Yellowstone River near the end of the damage path. By this point the path had narrowed considerably.

---All photos on pages 11 through 13 by Brian Smith, The University of Chicago.

## 2. FLASH FLOODING in SOUTH-CENTRAL TEXAS on July 17, 1987

During the evening of July 16th and the early morning of the 17th, moisture-laden thunderstorms moved slowly eastward through the Hill Country of South-Central Texas, producing flash flooding across seven counties north and northwest of San Antonio. The train-effect storms, one following another, dumped as much as 11.50 inches of rain 9 miles west of Hunt, and 5 to 10 inch amounts were common throughout the area. The resulting flooding was mainly concentrated along the Guadalupe River and its tributaries, the same area that was heavily affected by flooding in late May and early June 1987 (see June 1987 Storm Data). However, this flooding resulted in a tragic loss of life when a bus and van leaving a summer camp became stranded in floodwaters along the Guadalupe River just west of Comfort. As the vehicles were being evacuated, a surge of water rushing downstream swept 39 teenagers and 4 adults into the raging river. Ten persons drowned and the remaining 33 were rescued by helicopter, mostly from tree tops to which they were clinging.



Turtle Creek flowing about 3.5 feet deep over Texas Highway 16, 8 miles southwest of Kerrville. ---Photo by Susan M. Sander, The Kerrville Daily Times.



A house is half submerged by Guadalupe River flooding along Texas Highway 27 between Comfort and Center Point at 0700CST on July 17th. ---Photo by Susan M. Sander, The Kerrville Daily Times.

FLASH FLOODING in SOUTH-CENTRAL TEXAS ---- continued



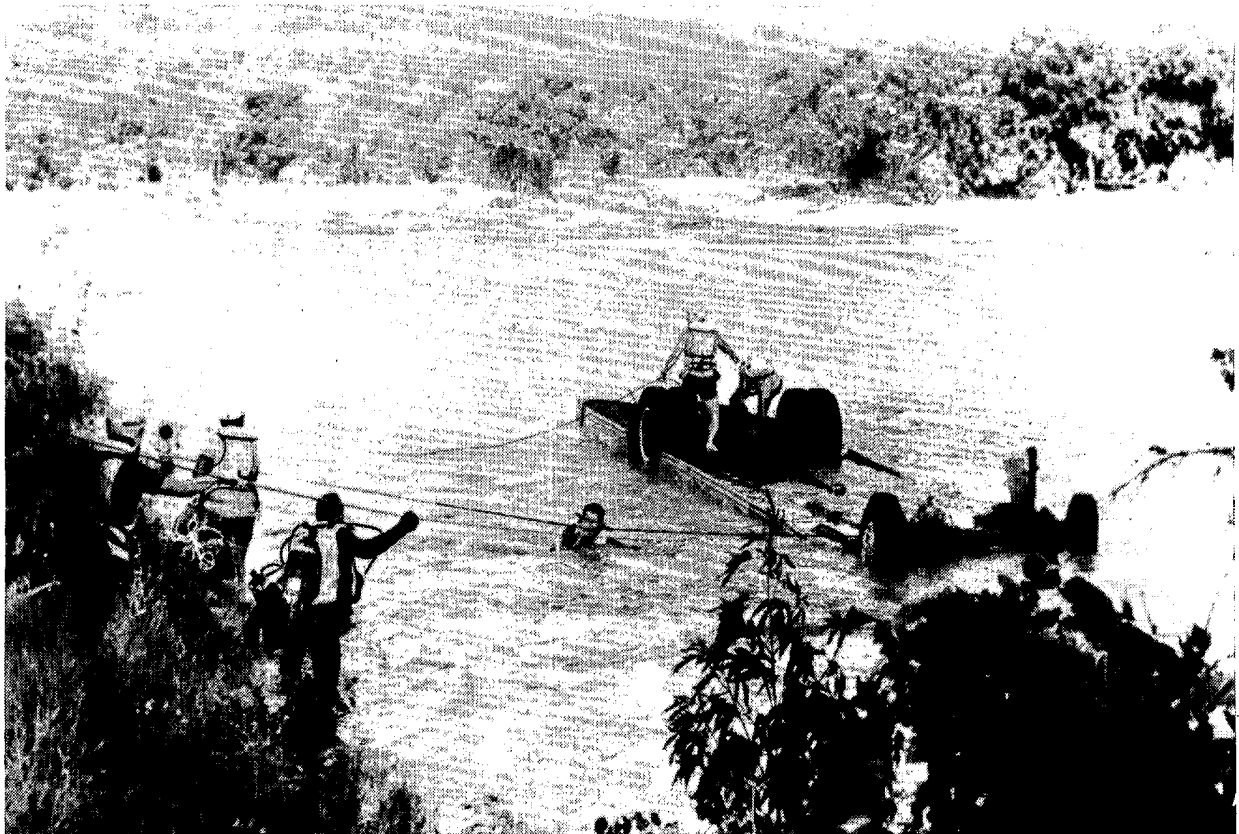
Floodwaters from the Guadalupe River churn over the road to Hermann Sons Crossing on July 17th, about 2 miles southwest of Comfort. This is the location where the bus and van were swept into the river. Numerous rescues by helicopter were made from the trees in the distance. Pictured here, the river is about two-thirds of a mile from its normal bank.



Hermann Sons Crossing on July 22nd, 5 days after the peak of the flooding. Waters had crested at the level indicated by the white line at left (arrow).

---Both above photos by Susan M. Sander, The Kerrville Daily Times.

FLASH FLOODING in SOUTH-CENTRAL TEXAS ---- continued



Divers attach cables to the overturned and submerged, Seagoville Road Baptist Church bus that was swept away along with 35 passengers by the Guadalupe River. Below, the bus is pulled from the river. The remaining 8 persons involved in the incident were in a van. ---Both photos by Carol E. Pfeiffer of Boerne, Texas; and supplied by Bill Hare, NWSFO at San Antonio, Texas.

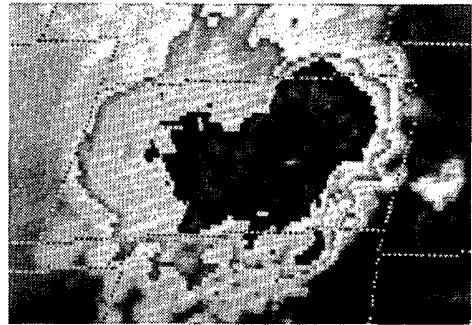




### 3. TORNADOES and THUNDERSTORM WINDS in KANSAS on July 5, 1987

Three lines of severe thunderstorms marched through Kansas during the morning of July 5th, one of which developed over Wichita in south-central Kansas and produced three tornadoes and widespread damaging winds as it moved east toward El Dorado and Winfield. Surface winds of 80 to 100 mph were generated as the strongest part of the storm line crossed southern Wichita and moved through Butler County. Although all three tornadoes were short-lived, one that touched down in Douglass produced F2 intensity damage that included the destruction of a small commercial complex containing a restaurant, convenience store, and small office building. The roof of the office building crashed into one home, and six other homes received lesser damage.

RIGHT: A GOES 6 satellite, infrared image of the thunderstorm activity over Kansas at 0600CST on July 5th, just 15 minutes after the occurrence of the Douglass tornado. Shown are the first line of storms which formed in western Kansas and moved into south-central Kansas, and the second, stronger line that formed over Wichita. The northern portion of the second line would later regenerate and trek from Emporia to Kansas City. ---Photo from NESDIS.



The initial structural damage caused by the F2 tornado at Douglass, viewed toward the north in a composite photo. A portion of the roof from the building in the center of the picture landed on a house across the street.

RIGHT: Debris litters the parking area in front of a building that had its roof removed by the tornado. The view is toward the south.



---Both damage photos by Phil Swain, NWSO at Wichita, Kansas.



A Douglass home that received substantial damage when the roof of another building mentioned on the previous page was dropped onto it by the tornado. The home's owner is consoled by a friend in the foreground. ---Photo by Don Shreve, The Wichita Eagle-Beacon.



Remains of a convenience store in Douglass that was destroyed by the tornado, shown here after salvagable contents were removed. The store was struck shortly after being opened for business early on the Sunday morning, and the employee who quickly sought cover narrowly escaped injury as the building was blown apart. ---Photo by Jeannette Nichols, The Arkansas City Traveler.

TORNADOES and THUNDERSTORM WINDS in KANSAS ---- continued



The convenience store as perishables and other merchandise contents were being removed. The direction of view is south-west.



A home that was unroofed by thunderstorm winds at 15th and Grove in northeast Wichita, also on the morning of the 5th.

---Both above photos by Phil Swain, NWSO at Wichita, Kansas.

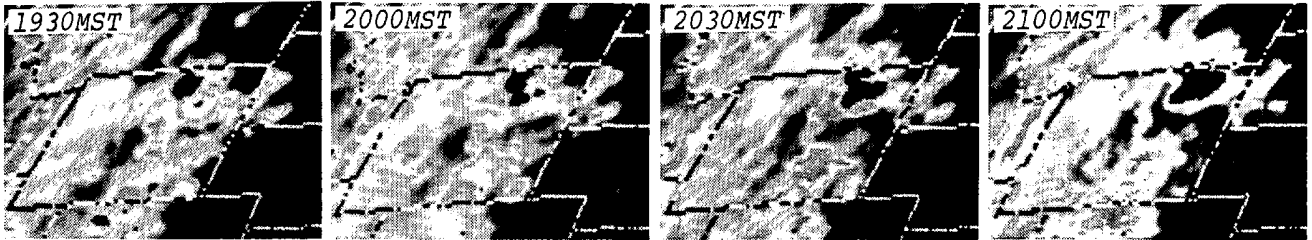


A home southeast of Topeka, Kansas near Berryton, of which the roof of the attached garage collapsed during the strong winds that accompanied the third line of storms that struck Kansas on the morning of the 5th. ---Photo by Steve Wolgast, The Topeka Capital-Journal.

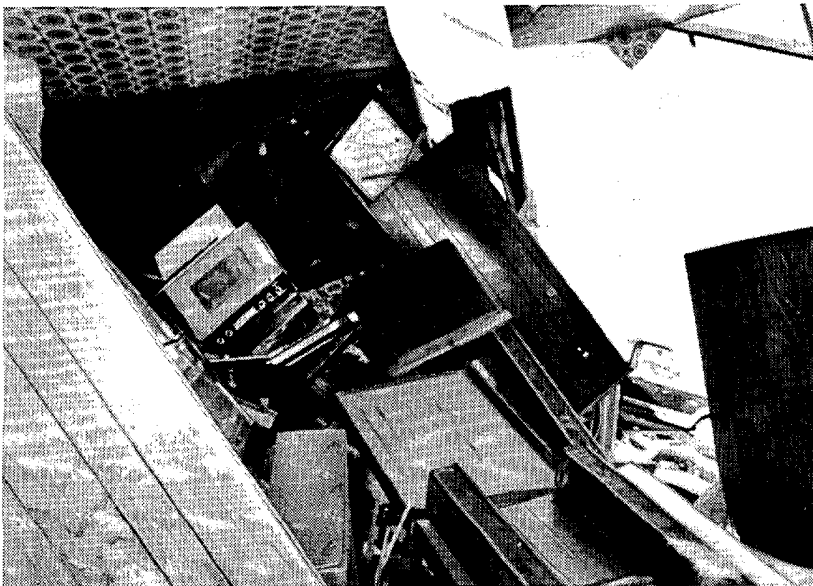
---All damage photos on pages 17 through 19 supplied by Steve Schurr and Bill Barlow, NWSFO at Topeka, Kansas.

#### 4. THUNDERSTORM WINDS at GILLETTE, WYOMING on July 30, 1987

On the evening of July 30th, an unusually strong thunderstorm for northeast Wyoming moved northeast through south and east sections of Gillette, bringing with it 50 to 60 mph winds and 1.50 inches of rain in an hour. Wind damage included the destruction of a mobile home and several horse stalls, partial destruction of several roofs, and damage to many city and state road signs. Lightning knocked a hole in the ceiling of one Gillette home, and the heavy rains caused flooding in many streets and a few apartments.

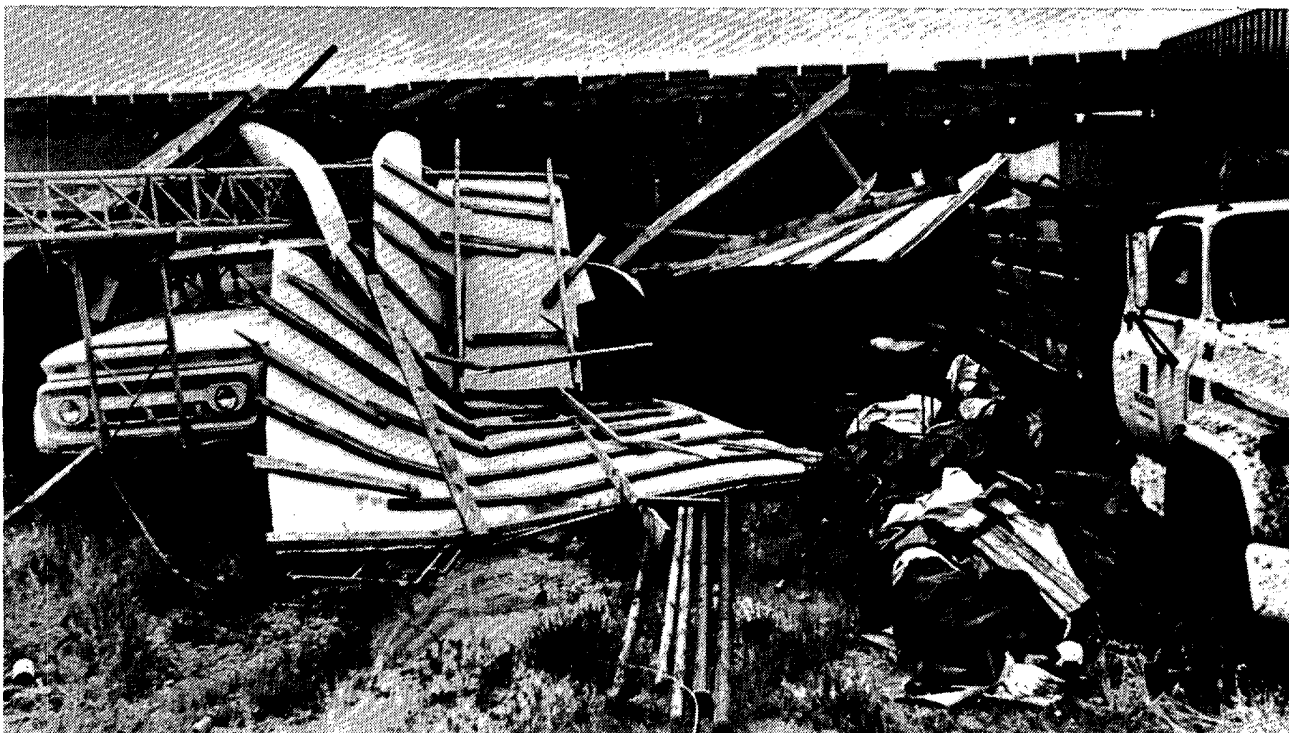


GOES 6 satellite, infrared images show the development of the severe thunderstorm in northeast Wyoming that passed through Gillette between 2100MST and 2200MST on July 30th. ---Photos from NESDIS.



An unoccupied mobile home in Gillette (top) was destroyed by the strong thunderstorm winds, even though it was securely tied down. The force of the winds twisted the trailer onto its roof, pulling the anchors from the ground in the process. Contents of the home (left) including furniture, stoves and bath tubs were piled onto the ceiling as a result. ---Both photos by Kathy Novak, The Gillette News-Record; and supplied by Hugh McRandal, NWSFO at Cheyenne, Wyoming.

THUNDERSTORM WINDS at GILLETTE, WYOMING ---- continued



A section of roof that was torn from the Gillette Lumber Mart by the thunderstorm's winds. The roof was blown into a building and parking lot adjacent to the mart. ---Photo by Kathy Novak, The Gillette News-Record; and supplied by Hugh McRandal, NWSFO at Cheyenne, Wyoming.

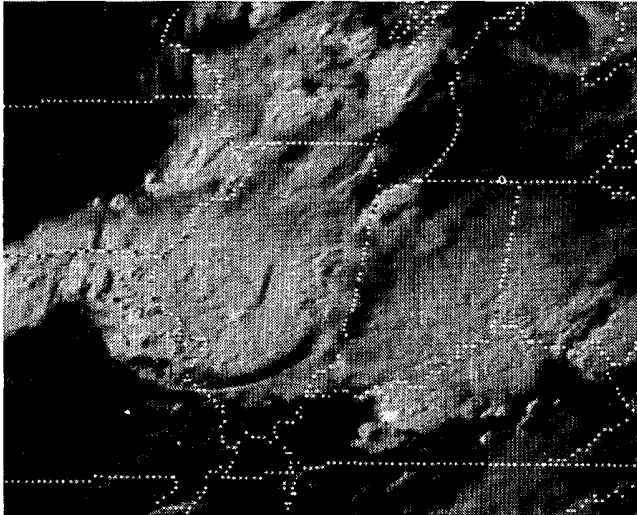
5. TORNADO near SCOTT CITY, KANSAS on July 7, 1987

On the evening of July 7th, a small F1 tornado touched down northeast of Scott City, Kansas and destroyed a barn, pictured below, and a grain bin at a farm. The farm's owner and his family took shelter in the farmhouse basement due to the storm's strong winds, but were suprised by the damage when they emerged. Having only heard the whistling of the wind and not the roar expected with a tornado, they did not suspect the existence of the tornado which was confirmed by a sheriff's officer. ---Photo by Dennis Lundgren, The Garden City Telegram; and supplied by Steve Schurr, NWSFO at Topeka, Kansas.



6. TORNADO at MOROCCO, INDIANA on July 6, 1987

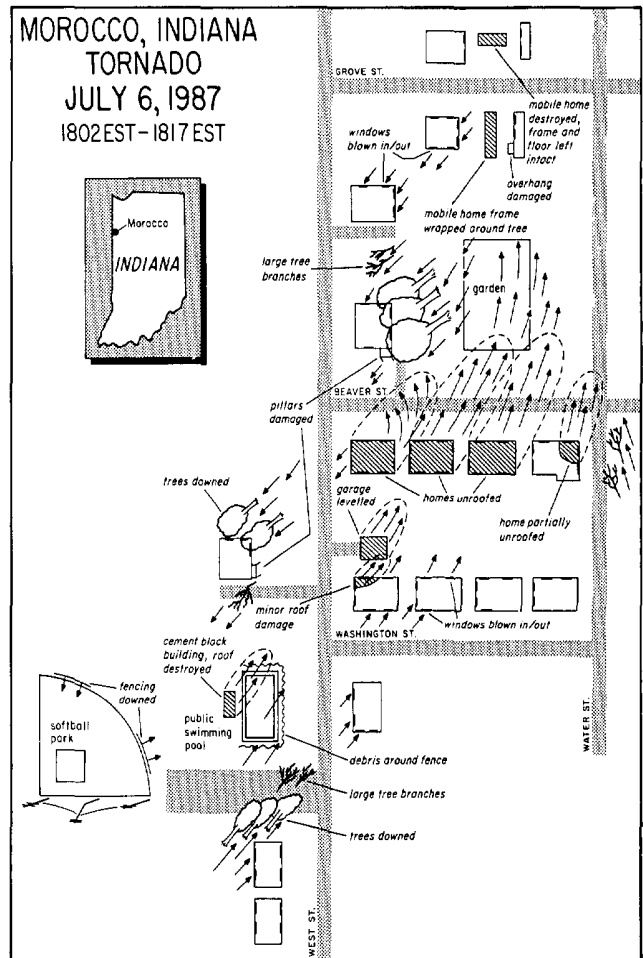
During the early evening of July 6th, a strong mini-tornado inflicted up to F2 intensity damage in western sections of Morocco, Indiana. After initially touching down in farm fields west of town, the tornado traveled northeast along a path about 7/8 of a mile long and up to 250 yards wide, and damaged 16 homes and 4 mobile homes as it entered the town. Two of the mobile homes were totally destroyed. A softball field and a public swimming pool facility were also damaged. Three people received injuries.



LEFT: A GOES 6 satellite, visible image taken at 1830EST on July 6th, just 13 minutes after the Morocco tornado ended, shows that the tornado was spawned by a newly formed storm at the northeastern edge of a storm line that arced westward through southern Illinois and into north-east Missouri. Note the outflow boundary at the southern edge of the line.  
---Photo from NESDIS.



The Morocco tornado viewed toward the northwest at 1812EST. ---Photo by Mr. Dowty of Morocco, Indiana.



Schematic mapping of the damage area in western Morocco. Vectors indicate the direction of debris movement, or winds as inferred from the damage configuration.  
---Map by Ron W. Przybylinski, NWSFO at Indianapolis, Indiana.

TORNADO at MOROCCO, INDIANA ---- continued



Southwest view of the damage at the public swimming pool located in the city park at the west edge of Morocco. The cement block building (center) lost its roof.



Southeast view of two homes along Beaver Street that were unroofed.

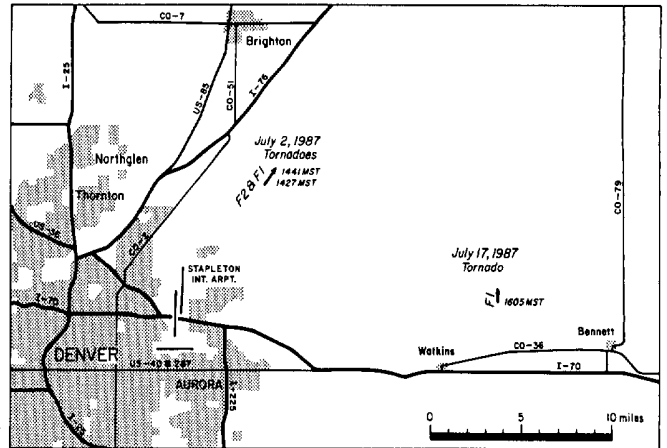


Southeast view of a mobile home on the south side of Grove Street that was completely destroyed, its frame having been wrapped around a 4.5 foot diameter tree.

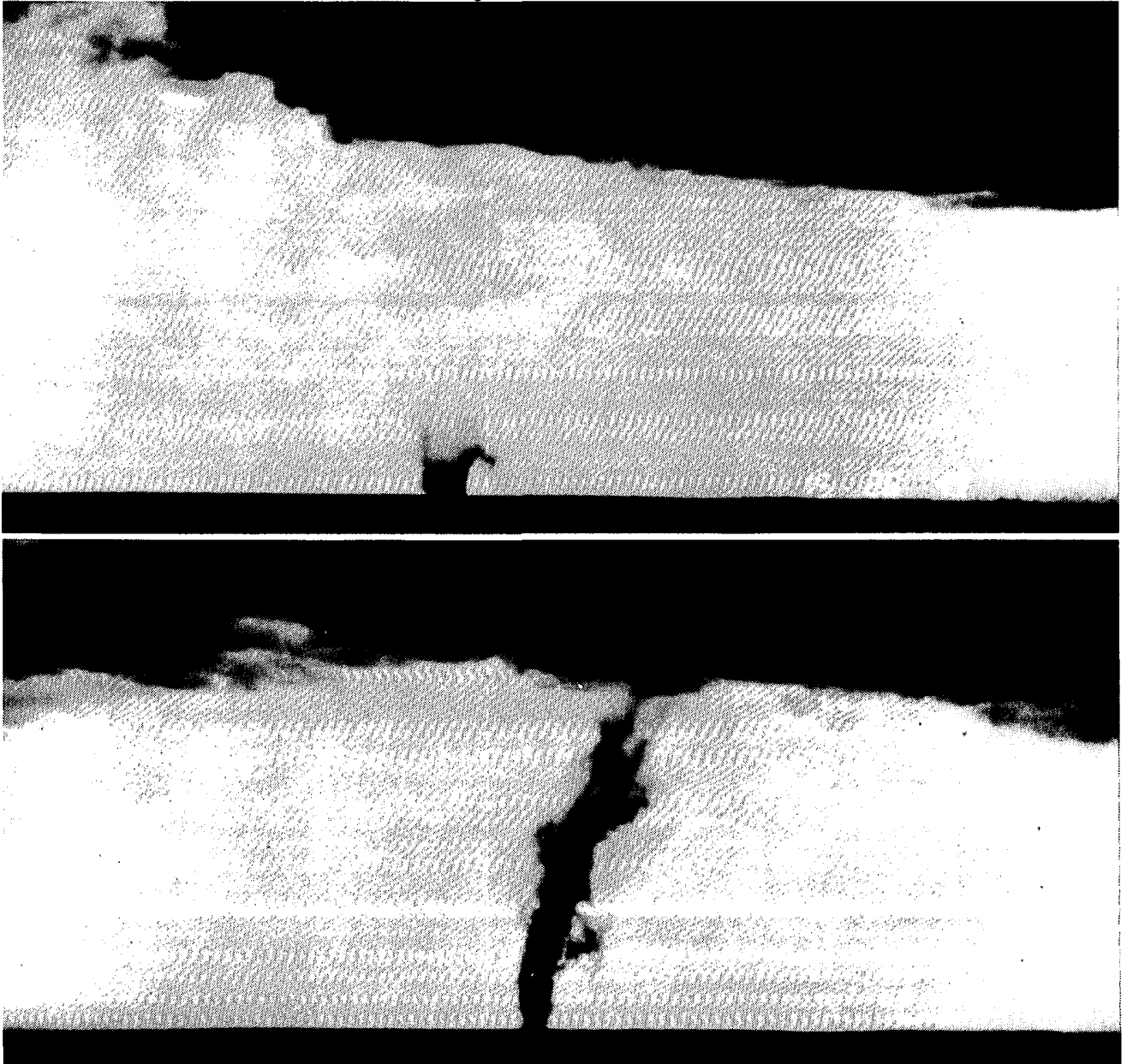
---All above photos by Ron W. Przybylinski, NWSFO at Indianapolis, Indiana.

## 7. TORNADOES near DENVER, COLORADO on July 2 and 17, 1987

As is common during the summer months, many tornadoes were spawned by thunderstorms in the Denver area and elsewhere along the lee of the Colorado Rockies during July. Two of such events, mapped at right, occurred on July 2nd and 17th in the area northeast of Denver and were observed and photographed by storm researchers. In both cases the tornadoes were made visible by entrained dust, since boundary layer moisture conditions in the region rarely permit the formation of a condensation funnel.

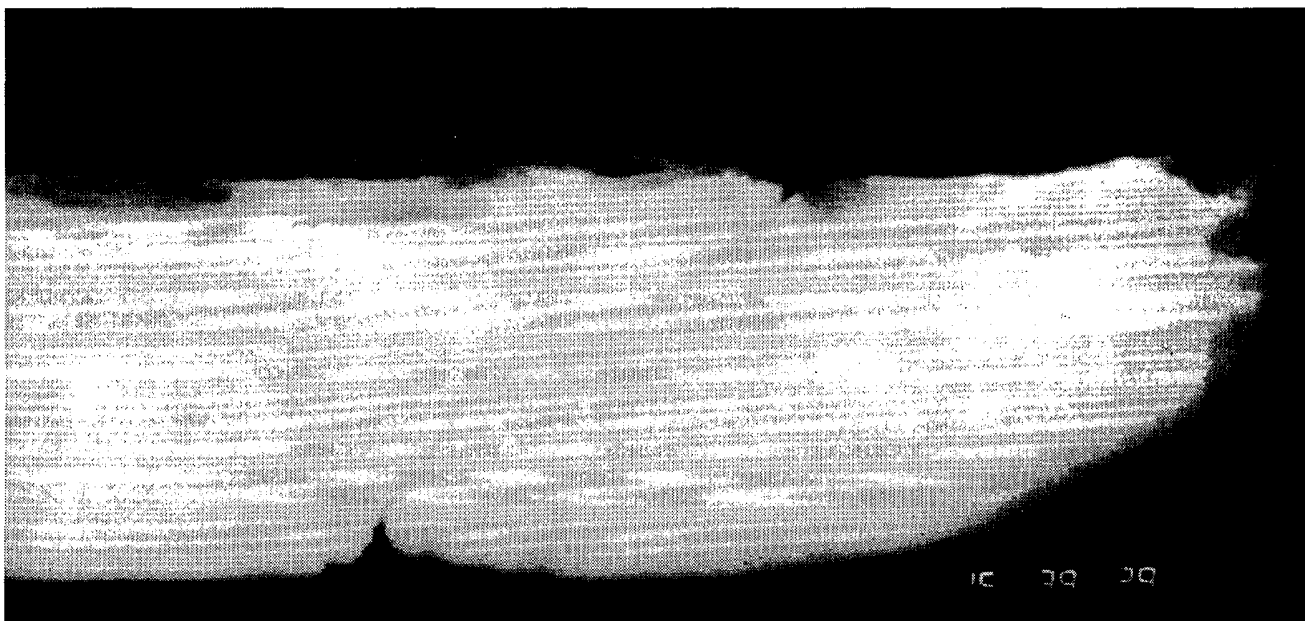
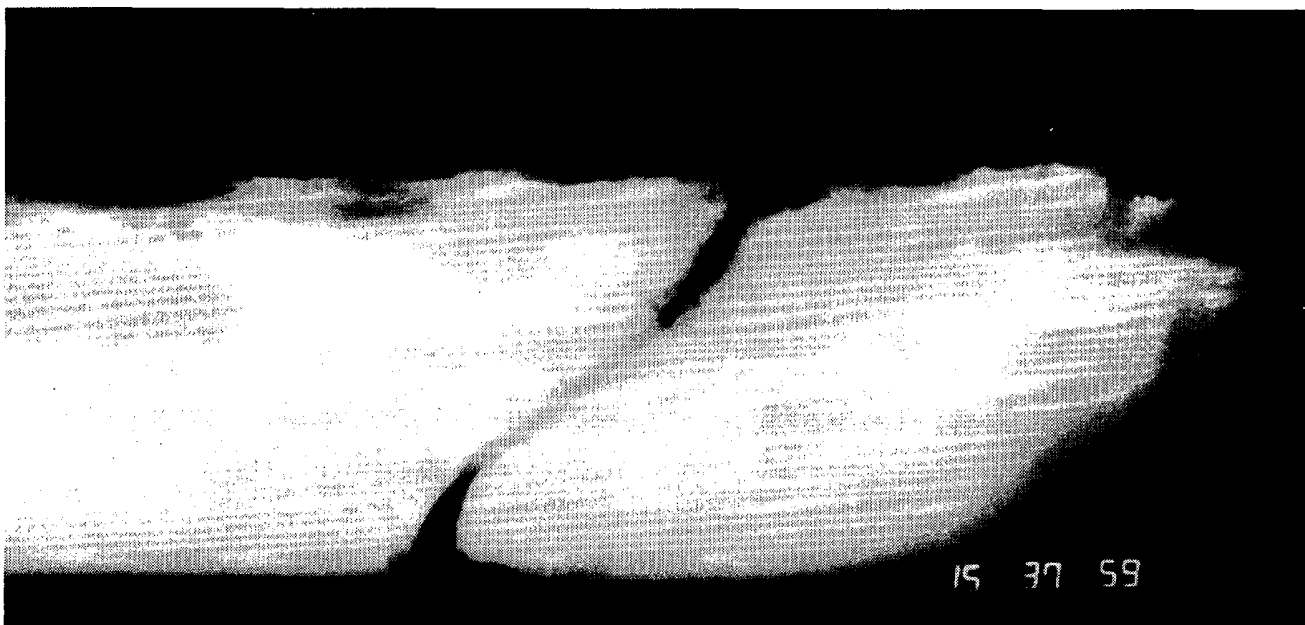
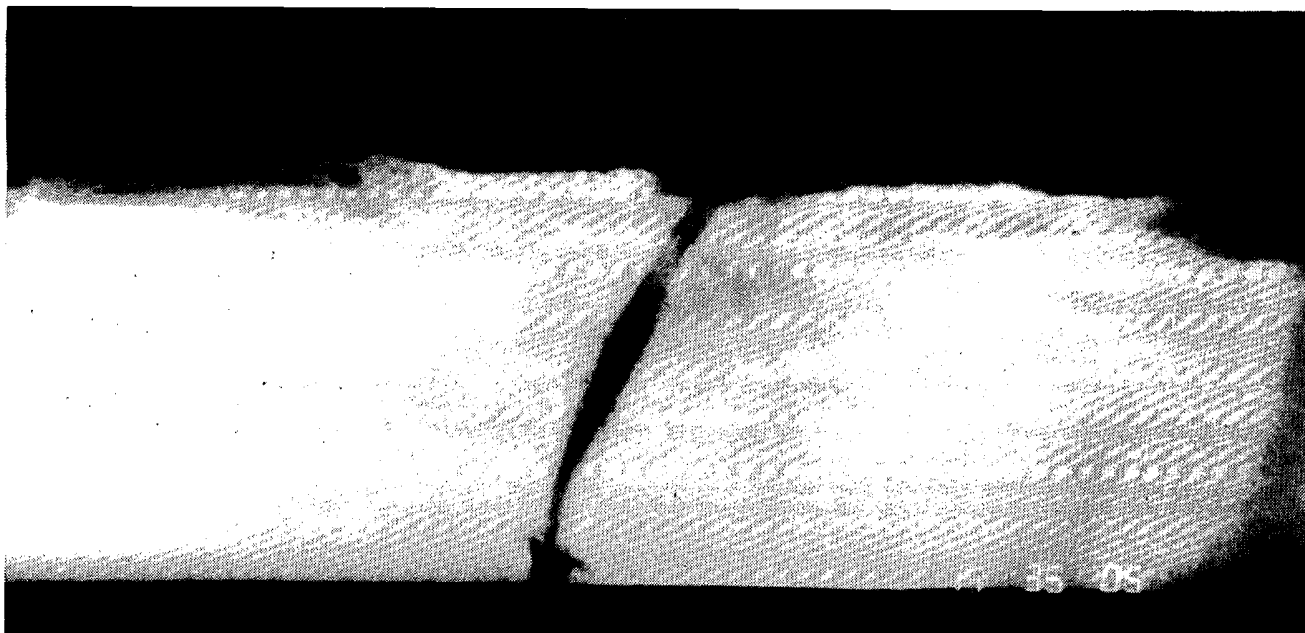


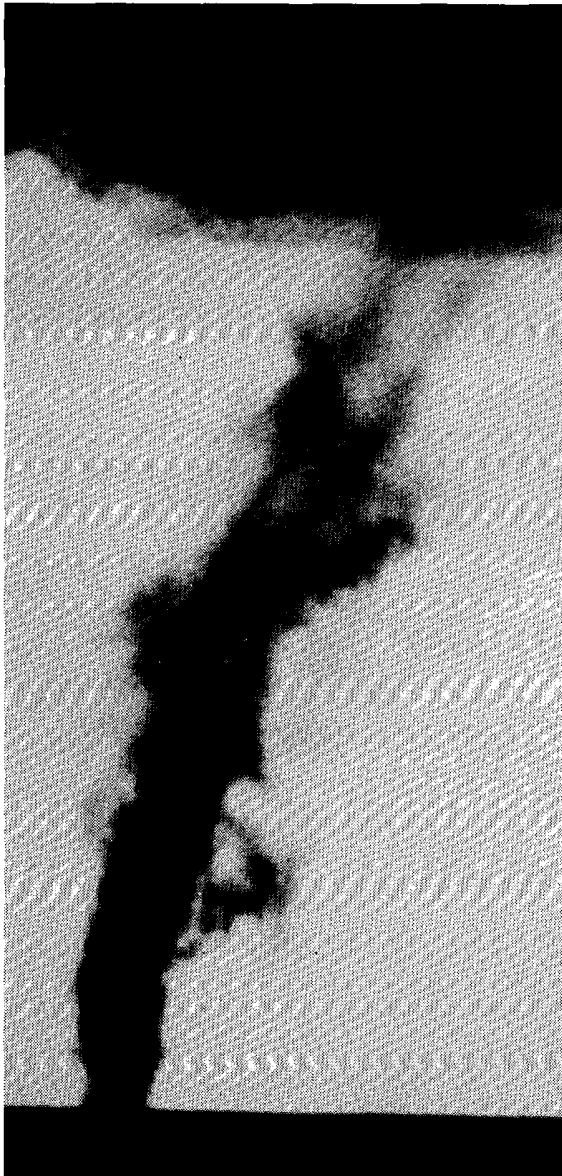
Below and on the following page, a 5-photo sequence shows the entire life cycle of the July 2nd, F2 tornado from its inception to its rope or dying stage. For only about two minutes of its 14 minute life, the tornado was accompanied by another, F1 tornado that spun around it in a helical pattern. This tornado's vortex is barely visible near the thunderstorm's cloud base, crossing at nearly a right angle to the funnel of the F2 tornado in the 153505 photo. The indicated times are in hours, minutes and seconds, Mountain Daylight Time.



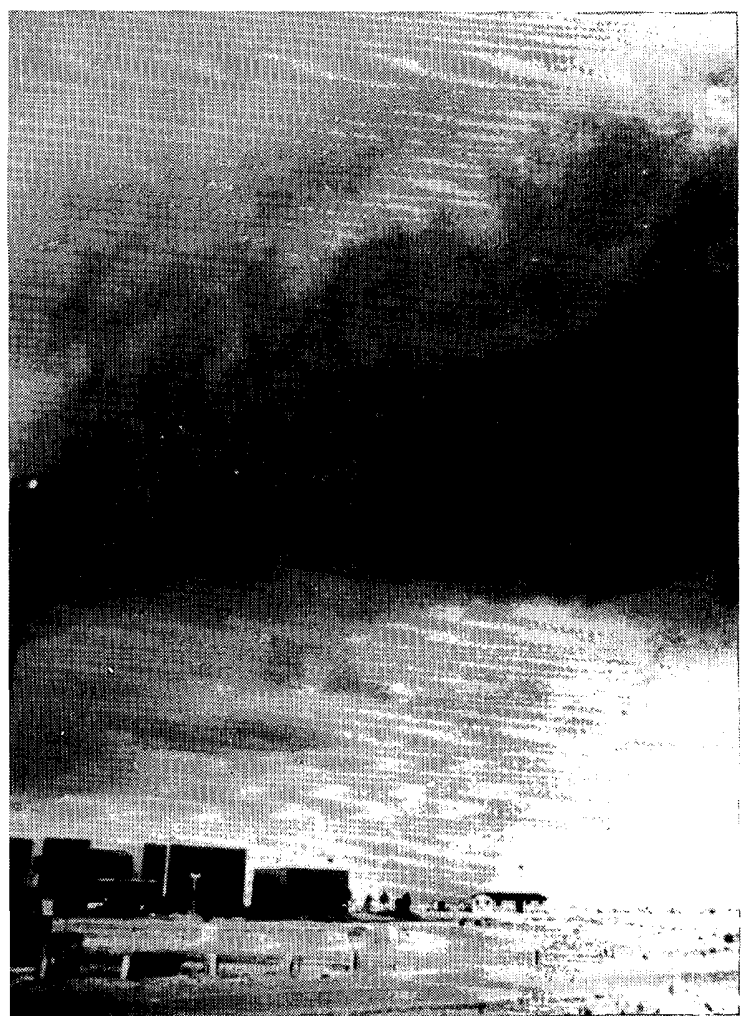
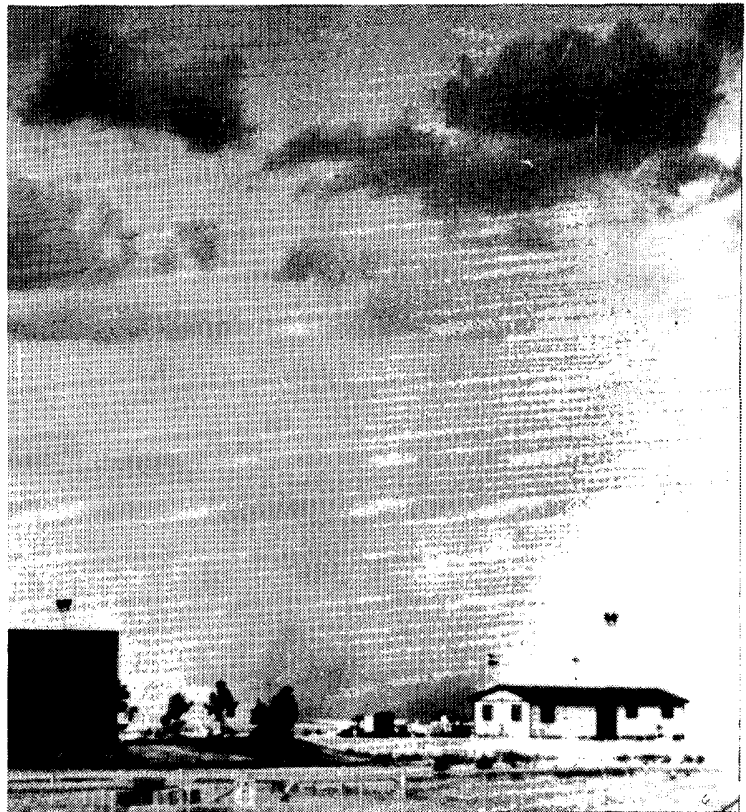


TORNADOES near DENVER, COLORADO ---- continued





ABOVE: An enlargement of the 153224 MDT photo of the July 2nd, F2 tornado demonstrates that dust was not only carried upward along the core of maximum winds, but once lifted, it also spiraled upward around the core at the outer edges of the vortex.

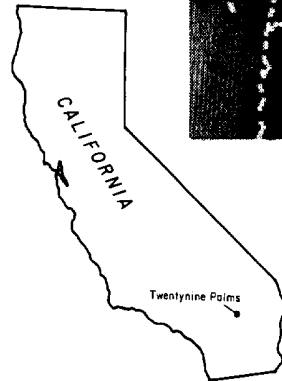
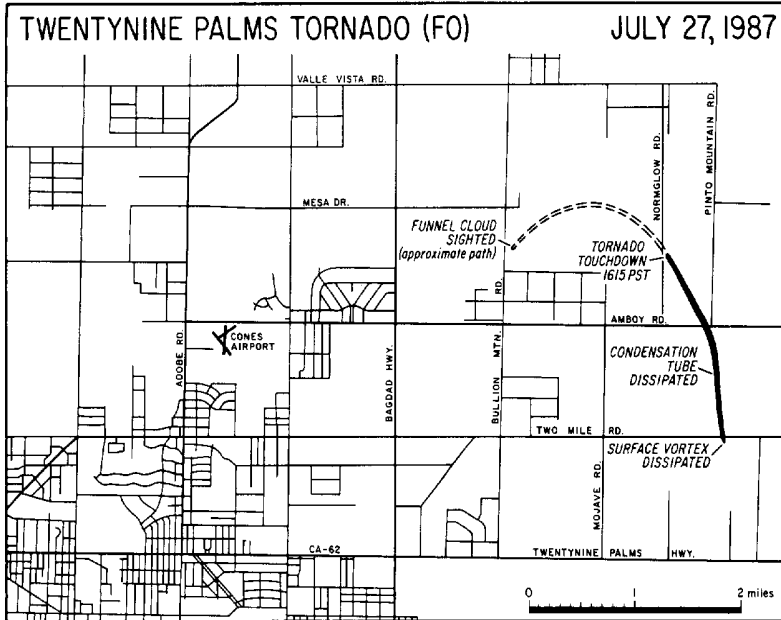
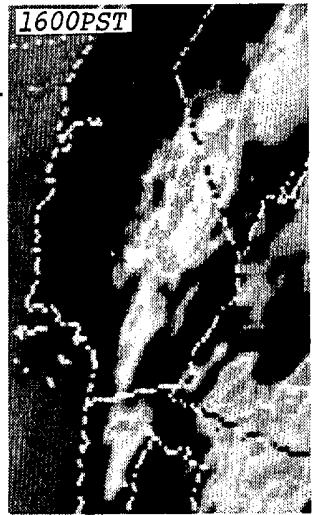


RIGHT: The July 17th, F1 tornado as it was seen from the Front Range Airport near Watkins (top) appears as only a broad surface dust swirl; but note the accompanying swirl in the parent thunderstorm's cloud base (bottom), indicating that the vortex is in fact a tornado.

---Map and all photos on pages 24 through 26 by Roger M. Wakimoto, UCLA, Los Angeles, California.

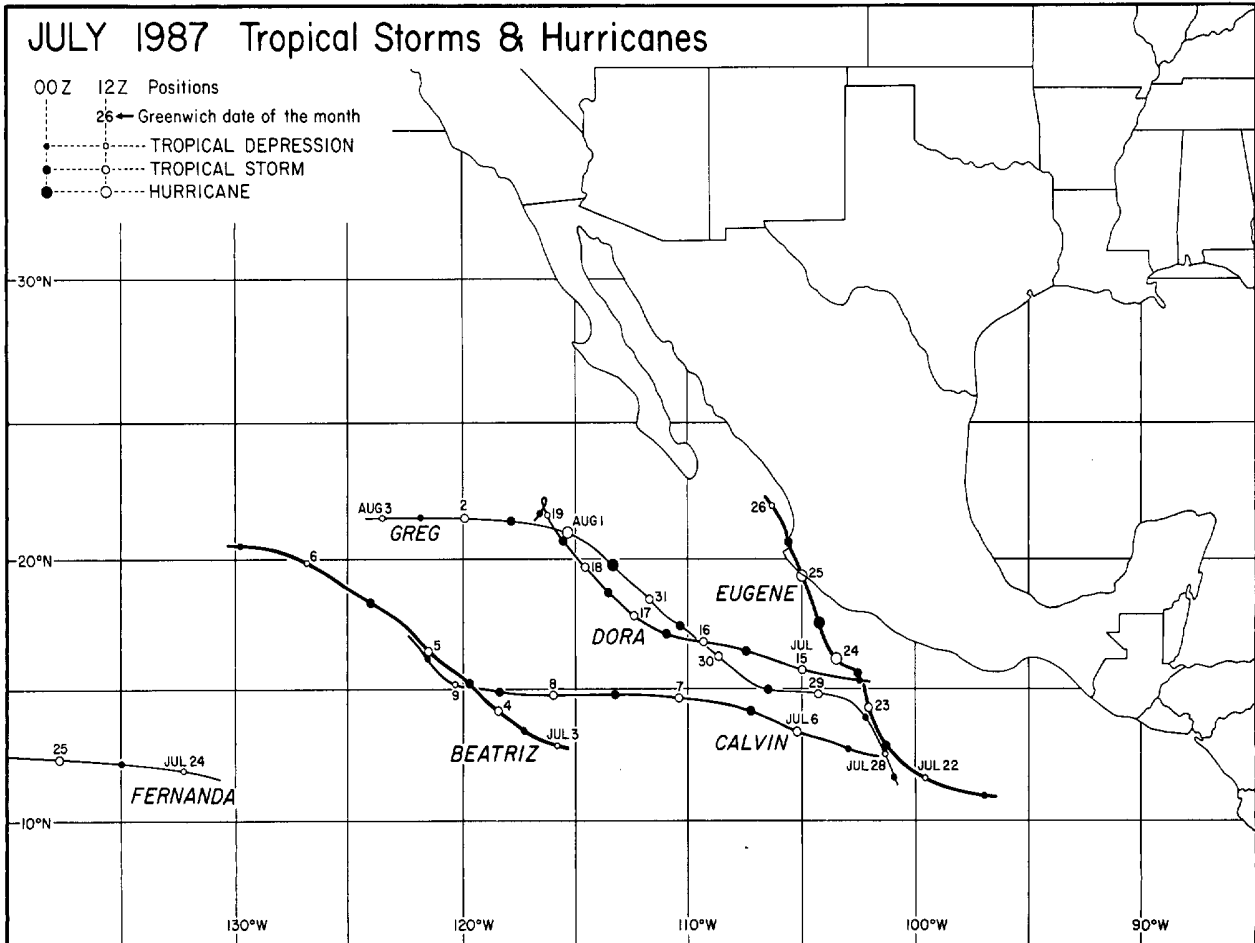
**8. TORNADO at TWENTYNINE PALMS, CALIFORNIA on July 27, 1987**

At 1615PST on July 27th, a rare Southern California desert tornado touched down in the northeast outskirts of Twentynine Palms. It was initially sighted as a funnel cloud moving north-east, but soon touched down and traveled south-southeast about 1.5 miles as a tornado. Its condensation funnel dissipated after 1 mile of travel, but the vortex was apparent at the surface for another half mile due to entrained dust and debris.



---Map by the NWSFO at Los Angeles, California; satellite photo from NESDIS.

**TROPICAL STORMS AND HURRICANES**



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

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

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

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

## 1 ALABAMA

Covington County	01 1145CST	0 0 ? 0	TSTM Wind	Numerous trees and power lines were downed in the city of Andalusia. Some trees were split by lightning strikes.					
Autauga County	01 1320CST	0 0 ? 0	TSTM Wind	Large trees were downed on U.S. 82 near Prattville. Large limbs were torn from trees between Billingsley and White City and along County Road 57 in northern Autauga County.					
Montgomery County	01 1330CST 1345CST	0 0 ? 0 0 0 ? 0	TSTM Wind TSTM Wind	Two trees were downed along I-65 in the city of Montgomery near Sports Acres at 1330CST. Large tree limbs were blown down in both north and southeast Montgomery at 1345CST. Torrential rain and severe lightning was also reported.					
Blount County	04 0100-0530CST	2 0 ? ?	Flash Flooding	A phenomenal 8.6 inches of rain fell in Oneonta during the early morning hours. It was the most rainfall in a 24 hour period in the 30 years weather records have been kept for Oneonta. The heavy rains caused considerable flooding of roads, fields, buildings and parking lots in Oneonta. Several roads and bridges were temporarily closed due to high water and mud slides near Oneonta. Water accumulated 4 feet deep in the basement of a local hospital. A 52-year-old man and his 62-year-old wife drowned at about 0615CST when their car was swept off a submerged lake spillway as they attempted to cross a dam. The accident happened about six miles east of Oneonta. Flash Flooding MS2V, P62V.					
Pickens County	04 1250CST	0 0 ? 0	Hail (1.75)	Golf ball size hail fell in the Pickens County community of Reform.					
Jefferson County	04 1508CST	0 0 ? 0	TSTM Wind	Two trees were blown down in the Center Point area of northeast Birmingham. Pea size hail also fell in the same area and in Pinson.					
Randolph County	05 1450CST	0 0 ? 0	Hail (0.75)	Dime size hail was reported at Wedowee.					
DeKalb County	06 1600CST	0 0 ? 0	TSTM Wind	Several trees were blown down in Rainsville.					
Marshall County	06 1710CST	0 0 ? 0	TSTM Wind	In and near Guntersville, several trees and numerous limbs were blown down. Two power poles were blown down and several power lines broken. Lightning strikes destroyed 5 or 6 power transformers.					
Blount County	06 1800CST	0 0 ? 0	TSTM Wind	A grocery store about 6 miles north of Oneonta had the roof blown off. Power outages due to fallen tree limbs were reported in the same area.					
Blount County	06 1820CST	0 0 ? 0	TSTM Wind	Trees were blown down over Tidwell Hollow Road in Allgood. Falling tree limbs broke power lines disrupting telephone and electrical service.					
Cullman County	06 1830CST	0 0 ? 0	TSTM Wind	Trees were blown across a residence on HWY. 69 in Baileyton. A chicken house fire was caused by lightning in the Fairview community.					
Mobile County	11 1710CST	0 0 ? 0	TSTM Wind	In the Dawes community, a microburst blew numerous large tree limbs down. Winds of 55 to 60 mph and pea size hail were reported.					
Lawrence County	13 1548CST 1600CST	0 0 ? 0 0 0 ? 0	TSTM Wind TSTM Wind	Large trees were downed in the city of Town Creek in northwest Lawrence County at 1548CST. At 1600CST, large trees were downed and power outages were reported in the cities of Courtland and Town Creek as well as much of northeastern Lawrence County.					
Limestone County	13 1605CST	0 0 ? 0	TSTM Wind	Trees were downed and three-quarter inch hail fell at Elkmont in northeast Limestone County.					
Marion County	13 1607CST	0 0 ? 0	TSTM Wind	Several trees were uprooted along HWY. 129, 3 miles southwest of Haleyville.					
Madison County	13 1655CST	0 0 ? 0	TSTM Wind	A trailer was destroyed and several large trees fell on power lines in Southwest Huntsville and in central Madison County.					

## ALABAMA

Cullman County	13 1720CST	0 0 ? 0	TSTM Wind	Numerous trees were downed in the city of Cullman and Cullman County. Several broken power poles were also reported.					
Walker County	13 1745CST	0 0 ? 0	TSTM Wind	Four trees were uprooted near Sipsey.					
Geneva County	14 1315CST	0 0 5 0	TSTM Wind	Four chicken houses were damaged while a barn and an office building were destroyed 5 miles southeast of Sanson.					
Montgomery County	25 1615CST	0 0 ? 0	TSTM Wind	Trees were downed in the city of Montgomery and in Snowdown on U.S. 331 south of Montgomery. Several trailers in a mobile home park suffered awning damage in southeast Montgomery.					
Randolph County	25 1715CST	0 0 ? 0	TSTM Wind	Several trees were blown down 2 miles west of Roanoke.					
Chambers County	25 1737CST	0 0 ? 0	TSTM Wind	A service station pump island roof awning was blown off in LaFayette. Power lines and trees were downed in numerous places throughout the county.					
Butler County	25 1750CST	0 0 ? 0	TSTM Wind	In Greenville, power lines and several large trees were blown down. Large trees fell onto two houses.					
Baldwin County	26 0035CST	0 0 ? 0	TSTM Wind	In Bay Minette, several power lines and tree limbs were blown down. Quarter size hail also fell.					
Baldwin County	26 0100CST	0 1 5 ?	TSTM Wind	A microburst affected an area 1/4 mile wide and 4 miles long in Loxley. One woman received minor injuries. Two mobile homes were destroyed. Two cars were destroyed and one car damaged. Numerous trees were uprooted. The nuts were blown off pecan trees in several orchards. Damage was estimated to be around \$100,000.					
Covington County	26 2040CST	0 0 ? 0	TSTM Wind	Several trees were blown down in Florala, Alabama.					
Dale County	28 1340CST 1400CST	0 0 ? 0 0 0 ? 0	TSTM Wind TSTM Wind	Trees and power lines were blown down at Arifton at 1340CST. Trees and power lines were blown down at Daleville at 1410CST.					
Houston County	28 1415CST	0 0 ? 0	TSTM Wind	Several trees were blown down in the Ashford area about 10 miles southeast of Dothan.					
Geneva County	28 1420CST	0 0 ? 0	TSTM Wind	Trees and power lines were blown down at Hartford. A severe electrical storm was also reported.					
Dale County	28 1420CST	0 0 ? 0	TSTM Wind	Trees and power lines were blown down at Clayhatchee.					
Baldwin County	28 1435CST	0 0 ? 0	Hail (0.75)	Nickel size hail fell at Stapleton.					
Mobile County	30 1420CST	0 0 ? 0	TSTM Wind	Several large trees were downed by high winds in Mobile and a large sign was blown into a street near Airport Boulevard.					

## 2 ARIZONA

Maricopa County, Tempe	14 2100MST	0 0 2 0	Thunderstorm Wind	Thunderstorms developed over the East Valley during the evening. Some power lines were downed, at least one oak tree was uprooted, and about 15,000 residents were left without power.					
Cochise County, 25SE Willcox	16 1500MST	0 0 0 ?	Hail	Thunderstorms quickly formed over rural areas of the county.					
Mohave County, Bullhead City	16 2145MST	0 0 2 0	Thunderstorm wind	Thunderstorms formed initially in Southern Nevada but moved into Arizona and intensified rapidly. Wind gusts were estimated up to as high as 70 mph.					

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

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	

## ARIZONA

Pima County, Robles Junction	20	1900MST			1	0	0	0	Lightning A ham radio operator was electrocuted when lightning struck a tower in his yard. Lightning M560.
Maricopa County, Mesa	26	1800MST			0	0	4	?	Thunderstorm wind A roof was blown off the County Main Gas Pumping Station. About 25 trees were uprooted or snapped off as high winds and heavy rain hit Dobson Ranch. Fences were damaged on the golf course and at least one nearby home had minor damage.
Cochise County, Bisbee	29	1500MST			0	0	0	0	Flash flooding Very heavy storms dropped as much as 1.1 inches of rain in 1/2 hour, causing minor flooding in Woods Canyon and Brevy Gulch.
Maricopa County, Scottsdale and Phoenix	31	1800MST			0	0	4	0	Thunderstorm wind Intense thunderstorms moved rapidly across the northeast portions of the Greater Phoenix area. Trees were blown down in McCormick Ranch. Almost 2 inches of rain fell in parts of Phoenix; winds there were estimated at 70 mph. One church on Scottsdale Road was struck by lightning, causing a small fire. Numerous trees were knocked down near Via Linda and 94th Street.

## 3 ARKANSAS

Jefferson County	04	UNK			1	0	-	-	High Heat A 57-year-old man from Pine Bluff died from heatstroke while en route to the hospital. M570.
Union County	06	1735CST			0	0	-	-	Hail (1.75") Golfball size hail fell at a large, industrial plant in the southern outskirts of El Dorado.
Union County	06	1752CST			0	0	-	-	Hail (1.75") Hail ranged in size from marble to golfball in downtown El Dorado.
Garland County	07	2100CST			0	0	3	-	Thunderstorm Wind A large tree was snapped in two. The top crashed through the roof of a home at Hot Springs Village.
Independence County	13	0300CST			0	0	?	-	Thunderstorm Wind A thunderstorm gust snapped a power pole in South Side, causing power outages at South Side, Salado, Rosie and other small communities.
Cross County	23	1603CST			0	0	?	-	Lightning Lightning started an attic fire at a home in Wynne. A television set was also damaged.
Saline County	23	1900CST			0	0	?	-	Flash Flooding Heavy rain caused street flooding in Benton. The Police Department reported that six vehicles were stranded because of standing water.
Jefferson County	24	1345CST			0	0	?	-	Flash Flooding The Office of Emergency Services in Pine Bluff reported that brief, heavy rains caused runoff to enter a home 8 miles southwest of Pine Bluff.
Cross County	24	1500CST			0	3	-	-	Lightning Three women were standing outside their work-place in Wynne. Lightning struck all three of them, and they required medical attention. Two were released shortly after treatment, but one required surgery.
Faulkner County	25	1700CST			0	0	4	-	Flash Flooding Between 3:20 and 5:30 p.m. CST, 2.44 inches of rain fell in Conway. Many streets were flooded and water was knee deep in places. Several businesses in the downtown area were inundated.

## ARKANSAS

Independence County	27	1055CST			1	0	-	-	High Heat A 77-year-old woman died of hyperthermia in Batesville. The temperature was 109 degrees inside her completely closed trailer when she was found dead by her daughter. F770.
Conway County	27	1105CST			0	2	4	-	Lightning Lightning struck a tree next to a home in Oppelo. The charge jumped to the home and started a fire. A 67-year-old lady was injured by the charge and required hospitalization. She had a punctured eardrum, burns around her wristwatch band on her arm, and an injury to her leg. The home was burnt.
Van Buren County	27	1600CST			0	0	3	-	Lightning Lightning opened a hole on a roof and started a small attic fire at a home in Clinton.
Graff County	29	1205CST			1	0	-	-	High Heat A worker for the Arkansas Highway Department collapsed in the heat and died, about 14 miles southeast of Sheridan. M450
Pulaski County	29	1530CST			0	0	3	-	Thunderstorm Wind A tree was uprooted in downtown Little Rock. It crushed the roof on a car parked next to it.
Jefferson County	30	UNK			1	0	-	-	High Heat A 77-year-old man from Pine Bluff died of heat stroke. M770
Lawrence County	30	1830CST			0	0	4	-	Thunderstorm Wind A thunderstorm gust destroyed golf-cart sheds at the Walnut Ridge Country Club. It also damaged a fence at an adjacent business.
Garland County	31	1240CST			0	0	5	-	Thunderstorm Wind Gusts from a thunderstorm blew out a wall and unroofed a recreation building under construction at a recreational vehicle park in Hot Springs. The winds blew down the block wall first, then proceeded to unroof most of the structure.

## 4 CALIFORNIA, Northern

Siskiyou and Modoc Counties, and Sierra Nevada Range	17								Heavy Snow A cold upper low dropped between 4 and 8 inches of snow in northern California, and between 1 and 4 inches in the Sierra Nevada as far south as Yosemite National Park.
Trinity County	21	1415PST			0	0	?	?	Hail (0.75) Three-quarter inch diameter hail was reported at Hyampom, and several other reports of smaller hail were received in conjunction with a thunderstorm in the foothills and mountains that was observed by radar to have reached a VIP level 5 intensity.

## 4 CALIFORNIA, Southern

CAZ014 Owens Valley, Bishop	12	afternoon			0	0	?	?	Thunderstorm Winds Wind gusts of up to 52 knots were reported at the Bishop airport.
CAZ012-013-018 Riverside County	27	1330PST			0	0	?	0	Thunderstorm Rain in the Idyllwild area totalled 0.79 inches in one hour. No further reports regarding any damage were available.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

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					KILLED	INJURED	PROPERTY	CROPS								KILLED	INJURED	PROPERTY	CROPS			
<b>CALIFORNIA, Southern</b>											<b>COLORADO</b>											
San Bernardino County, Twentynine Palms	27	1615PST	1.5	50	0	0	?	0	Tornado (F0)	Northeastern Colorado	2	afternoon-evening	0	0	5	6	Severe TSTMS					
<p>A funnel cloud moving slowly to the northeast was reported near Bullion Mountain Road and Mesa Drive. At Mojave Road, the funnel began to travel to the southeast and became a tornado east of Normglow Road, one half of a mile north of Amboy Road.</p> <p>The Captain of the Wonder Valley Fire Station saw an apparent funnel cloud one-half mile northwest of Amboy Road and Pinto Mountain Road.</p> <p>The tornado was estimated to have had a diameter of 150 feet and a height of near 800 feet, and dirt, rocks, and leaves were seen swirling at its base. Its exact intensity was not known. The tornado moved southeast toward the intersection of Amboy and Pinto Mountain roads, remained stationary several minutes, and then began moving south toward Two Mile Road. The condensation tube dissipated about one-quarter to one-half mile south of Amboy Road, and the debris cloud continued travelling south across Two Mile Road.</p> <p>Determination of the tornado's path was accomplished through contact with several observers.</p> <p>In addition to the tornado, strong thunderstorms produced heavy rain and numerous lightning strikes in the area as well. An unoccupied cabin in Desert Heights was destroyed by a lightning-caused fire, numerous roads were lightly damaged due to flooding, and the Wonder Valley Fire Station reported 0.50 inches of rain in one hour.</p>											<p>Severe thunderstorms were widespread in northeastern Colorado. Hail damaged over 900 acres of crops just south of Wiggins. Sugar beets, corn, and beans were all affected. Hail broke a few windows in the town. Large hail broke skylights in a mobile home near Colorado Springs. Hail damaged crops in northeastern Weld County.</p> <p>Additional reports associated with these storms were as follows:</p>											
										Arapahoe County:	02	1407MST					Hail (1.75)					
										E of Littleton	02	1410MST					Hail (1.00)					
										Ern. Littleton	02	1412MST					Hail (1.75)					
										Highlands Ranch	02	1423MST					Hail (0.75)					
										Ern. Aurora	02	1438MST					Hail (1.75)					
										Adams County, NE Aurora	02	1504MST					Hail (0.75)					
										Weld County:	02	1508MST					Hail (0.75)					
										6 S Hudson	02	1541MST					Hail (0.75)					
										33 ENE Grover	02	1544MST					Hail (0.75)					
										Douglas County:	02	1550MST					Hail (0.75)					
										3 NNW Franktown	02	1550MST					Hail (1.00)					
										near Franktown	02	1553MST					Hail (1.75)					
										Morgan County:	02	1610-1615MST					Hail (1.00)					
										3 S Wiggins	02	1615MST					Hail (1.00)					
										Wiggins	02	1719MST					Hail (1.12)					
										Wiggins	02	1956MST					Hail (1.75)					
										1 NE Wiggins	02	2004MST					Hail (1.75)					
										Elbert County, 6 S Elbert	02	2007MST					Hail (1.00)					
										El Paso County, Black Forest	02	2005MST					Hail (1.00)					
										Douglas County: Parker	02	2050MST					Hail (1.00)					
										5 E Parker	02	2050MST					Hail (1.75)					
										El Paso County, Colorado Springs	02	2140MST					Hail (1.00)					
										(Peterson Field)	02	2200MST					Hail (1.75-2.50)					
										Elbert County: Elizabeth	02	2200MST					Hail (1.00)					
										NW of Kiowa	02	2200MST					Hail (1.75)					
										1.25 NE Elizabeth	02	2200MST					Hail (1.00)					
										El Paso County, Black Forest	02	2200MST					Hail (1.75-2.50)					
										Otero County	3	0200MST	0	0	4	5	Hail (0.5)					
										COZ 016							A hailstorm cut a swath through Otero County. Extensive damage to beans, corn, tomatoes, hay, and melons occurred near Fowler and Manzanola; 1 to 3 inches of rain fell in less than an hour. By 0230MST, the hail had reached the Rocky Ford area, smashing more crops. There was some damage to buildings in the town.					
										Weld County	3	1940MST	0	0	0	0	Hail (1.0)					
										COZ 011							1 inch hail fell between Ault and Pierce.					
										Morgan County	3	2100MST	0	0	0	5	Hail (1.75)					
										COZ 012							Golfball size hail fell 6 miles west of Fort Morgan. A short time earlier the same storm dropped more hail near Wiggins, damaging about 700 acres of crops.					
										Kit Carson County	4	0030MST	0	0	6	6	Lightning, Hail (2.75)					
										COZ 013							Hail up to baseball size battered the northeastern section of Burlington and adjacent farmland, cutting a swath of damage 3 miles long and 4 miles wide. Total damage was estimated at 5 million dollars. 60 cars were damaged at a car dealership in Burlington. Corn, beans, and wheat were all hard hit just outside town. Some fiberglass tanks on a farm were destroyed; they were punctured by hailstones. Lightning started a fire in a house and ruptured a water main. The storm lasted from 0000 to 0100MST.					
										Adams County	4	1500MST	0.8	30	0	0	0	Tornado (F1)				
										COZ 012							A tornado was observed by a PROFS chase team 7 miles northeast of Watkins. It stayed on the ground until 1506MST.					
										Arapahoe County	4	1510MST			0	0	4	Tstm. winds				
										COZ 011							A microburst damaged three cars in southeast Aurora.					
										Arapahoe County	4	1512MST			0	0	0	Hail (1.25)				
										COZ 011							1 1/4 inch hail fell in southeast Aurora. At 1514MST a report of 3/4 inch hail was received from the same area.					

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

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					KILLED	INJURED	PROPERTY	CROPS	
<b>COLORADO</b>									
Larimer County COZ 011	4	1513MST			0	0	0	0	Hail (0.75) 3/4 inch hail fell 10 miles west of Fort Collins.
Adams County COZ 012	4	1545MST			0	0	0	0	Hail (0.75) 3/4 inch hail fell at Strasburg.
Logan County COZ 013	4	1726MST			0	0	0	0	Hail (1.75) Golfball size hail fell in the eastern part of Sterling. At 1733MST, hail of identical size was reported one mile southeast of the city.
Lincoln County COZ 014	4	1830MST			0	0	3	0	Hail (1.75) Golfball size hail fell 9 miles northeast of Limon, damaging cars and breaking a few windows.
Douglas County COZ 011	7	1334MST	0.2	20	0	0	0	0	Tornado (F1) A tornado touched down 1 mile south of Castle Rock.
Douglas County COZ 011	7	1339MST	0.2	20	0	0	0	0	Tornado (F1) A tornado was spotted 2 1/4 miles southwest of Franktown.
Douglas County COZ 011	7	1344MST	0.2	20	0	0	0	0	Tornado (F1) A tornado touched down for a minute in Castle Rock.
Elbert County COZ 012	7	1517MST	0.2	30	0	0	0	0	Tornado (F1) A tornado touched down briefly 10 miles southwest of Deer Trail.
Weld County COZ 012	7	1525MST	1.5	40	0	0	0	0	Tornado (F1) A tornado touched down 1 mile east of La Salle. It stayed on the ground until 1537MST, moving slowly toward the north-northwest in the direction of Greeley. It had a ropelike shape.
Weld County COZ 012	7	1540MST	5	100	0	0	4	0	Tornado (F2) A tornado touched down near Kersey and moved toward the northeast at about 20 mph. It stayed on the ground until about 1605MST, destroying a barn 3 miles east of Gill near the end of its path. The twister was accompanied by heavy rain; 1 1/4 to 2 inches fell at Kersey in 30 minutes, causing some street flooding.
Weld County COZ 012	7	1635MST	0.5	50	0	0	0	0	Tornado (F1) A tornado was spotted 7 miles southeast of Briggsdale.
Otero County COZ 016	7	1814MST	0.5	30	0	0	0	0	Tornado (F1) A tornado was observed a few miles northeast of La Junta.
Yuma County COZ 013	7	1925MST	0.2	30	0	0	0	0	Tornado (F1) A tornado touched down briefly 4 miles southwest of Yuma.
Eastern Colorado COZ 011-012-013-015	7	afternoon-evening			0	0	4	6	Severe TSTM's Severe thunderstorms hit many areas in northeastern Colorado, and also in the southeastern foothills. Major crop damage occurred near the tornadoes in Weld County. A 20 mile swath through north-central Weld was hit. Corn, onions, potatoes, and beans were badly damaged, along with 3300 acres of sugar beets. The worst damage extended from two miles east of Eaton to Gill. In Fort Morgan, winds blew a door off of a hangar at the airport. A barrel was blown into the side of a small plane. Lightning started a pasture fire just south of Fort Morgan; 350 acres were burned.  Additional reports associated with these storms were as follows:
Adams County, 7 N Bennett Weld County: Kersey 2 S Gill 5 SE Grover	07	1520MST							Hail (0.75)
	07	1555MST							Hail (1.00)
	07	1600MST							Hail (0.75)
	07	1640-1645MST							Hail (1.75)
	07	1650MST							Hail (0.75)
Huerfano County: N of Walsenburg Walsenburg	07	1730MST							Hail (0.75)
	07	1830MST							Hail (1.25)
Washington County, Akron	07	1840MST							Hail (0.75)
Sedgwick County, W of Sedgwick	07	1910MST							Hail (0.75)
Arapahoe County COZ 012	8	1513MST			0	0	0	0	Hail (1.25) 1 1/4 inch hail fell 3 miles north of Deer Trail.
Routt County COZ 001	8	1630MST			1	0	0	0	Lightning A 16-year-old girl was killed by lightning in Toponas.
El Paso County COZ 014	8	1643MST			0	0	0	0	Tstm. wind (61) A thunderstorm produced a 61 mph gust at Fort Carson.
Adams County COZ 012	8	1647MST	0.2	20	0	0	0	0	Tornado (F1) A brief tornado was observed by a PROFS chase team 1/4 mile east of Bennett.
<b>COLORADO</b>									
El Paso County COZ 014	8	1755MST			0	0	0	0	Tstm. wind (58) A gust of 58 mph was produced by a thunderstorm at Fort Carson.
Weld County COZ 012	8	1818MST			0	0	0	0	Hail (1.5) 1 1/4 inch hail fell 4 miles northwest of Keenesburg.
Sedgwick County COZ 013	9	1500MST			0	0	?	?	Hail (4.5) Large hail fell in the Julesburg area from 1500 to 1515MST. A few stones were as large as softballs at 1505MST, and golfball size hail fell during the entire period. 1 1/4 inch hail was observed a mile south of the town at 1515MST. No reports of damage were received, but some undoubtedly occurred.
Washington County COZ 012	9	1710MST			0	0	0	0	Tstm. Winds (G60) A thunderstorm microburst produced a gust of 60 mph at Akron.
Weld County COZ 011	9	1810MST			0	0	0	0	Tstm. Winds (G58) A thunderstorm microburst produced a gust of 58 mph at Erie.
Kiowa County COZ 017	11	1730MST			0	0	0	0	Hail (1.75) Golfball size hail fell 4 miles west of Sheridan Lake.
El Paso County COZ 014	11	evening			0	0	3	0	Lightning Lightning killed seven head of cattle, valued at a total of \$3500, near Ramah in extreme northeast El Paso County.
Northern and Central Mountains COZ 002-004	12				0	0	0	0	Rain, Snow An unseasonably cool storm produced 10 inches of snow atop Mt. Evans in Clear Creek County, at an elevation of just over 14 thousand feet. The road to the summit was closed. 3 inches fell as low as Echo Lake, just below 11 thousand feet. Several spots at lower elevations in the northern mountains had over an inch of rain.
Adams County COZ 011	17	1605MST	0.3	20	0	0	0	0	Tornado (F1) A small tornado was sighted near Watkins in the vicinity of the Front Range airport.
Larimer County COZ 011	19	1635MST			0	0	0	0	Tstm. Winds (G60) A 60 mph microburst was recorded in Fort Collins. A tree was blown down, and a few other trees lost limbs.
La Plata and Montezuma Counties COZ 007	21	1530MST			0	0	5	4	Wind, Hail A heavy thunderstorm hit the Mancos area. High winds and hail knocked down trees, broke windows, and damaged cars and roofs in the town. Fruit trees were stripped, and one building was unroofed. A police car was dented by hail. The hail piled up eight inches deep in one spot during the 15 minute storm. Total damage was estimated at \$100,000. In adjacent La Plata County, heavy rains triggered a mudslide which closed U.S. 550 just north of the New Mexico border. A natural gas line was broken.
Adams County COZ 011	24	1600MST			0	0	0	0	Hail (0.75) 3/4 inch hail fell 5 miles northeast of Commerce City.
Jackson County COZ 002	28	1440MST			0	0	0	0	Rain, Hail (0.6) An unusually heavy mountain thunderstorm dropped 1.75 inches of rain in just 30 minutes 2 miles west of Rand, along with hail that piled up 6 to 8 inches deep.
Routt County COZ 001	30	1430MST			0	0	4	0	Rain, Lightning Lightning severely damaged a transformer in Hayden, causing a power outage that lasted 10 hours. 1.05 inches of rain fell in 30 minutes, causing street flooding.
Boulder County COZ 011	31	1400MST			0	0	0	0	Hail (0.75) 3/4 inch hail fell 2 miles southwest of Louisville.
Boulder and Jefferson Counties COZ 011	31	1743MST			0	0	0	0	Rain, Hail (1.0) 1 inch hail fell in Jefferson County at Lakewood. At about the same time Broomfield, in extreme southeast Boulder County, was drenched with 1.25 inches of rain in just 20 minutes.
<b>CONNECTICUT</b>									
Hartford County	25	1130EST-1200EST			0	0	?	?	Lightning A powerful, early afternoon thunderstorm resulted in power outages affecting up to 30,000 homes and businesses in Manchester, East Hartford, Bloomfield, and South Windsor.

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JULY 1987

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<b>CONNECTICUT</b>									
New London County, North Stonington	25	1330EST-1400EST			0	1	?	0	Lightning TSTM Wind (60) Hail
<p>In North Stonington, a bolt of lightning injured a woman when it travelled through a washing machine at which she was doing laundry. She was taken to the local hospital.</p> <p>A thunderstorm downburst wind roared through part of this town as well, knocking down trees, tearing a roof of a building, blowing out windows, and flattening a cornfield.</p> <p>Also, hailstones of up to one-half inch in diameter broke several windows in a home.</p>									
<b>7 DELAWARE</b>									
Kent County and Sussex County	12	1210EST			0	0	4	0	Thunderstorm Wind
<p>A trailer was blown off of its foundation in Kent County. The heaviest rain fell in New Castle County where 1.7 to 4.7 inches were reported. A thunderstorm also dropped dime size hail in Harrington and Greenwood.</p>									
Sussex County	19-27	9 days			0	0	4	4	Heat Spell
<p>Temperatures were well into the 90's (°F) for 9 consecutive days and reached 98°F at Wilmington. Many chickens were lost, most at the start of the heat spell. A total of 1 million chickens in the Delmarva Peninsula were reported to have died, a figure somewhat above normal. Delmarva Power reported a record usage of 2.228 kilowatts.</p>									
Kent County and Sussex County	21	1800EST			0	0	?	0	Thunderstorm Wind (70)
<p>Strong thunderstorm winds reached 70 knots at Cape Henlopen Pilot Tower. A dog was picked up and blown through the air in Kent County and trees were knocked over near Greenwood. In Sussex County, winds reached 70 knots in Lewes and hail fell at Fenwick Island. Trees and camping tents were blown over.</p>									
New Castle County	26	1430EST			0	0	5	0	Thunderstorm Wind (57)
<p>Thunderstorm winds gusting up to 57 knots damaged 17 aircraft at the Greater Wilmington Airport, flipping over 4 of them.</p>									
<b>8 FLORIDA</b>									
Sarasota Co., Englewood	01	1700EST			0	0	3	0	TSTM wind (52)
<p>High wind damaged the roofs of two mobile homes.</p>									
Pasco Co., Anclote	01	UNK			1	0	0	0	Lightning
<p>A 16-year-old male was struck and killed by lightning. The person was on a boat ramp. It is not known whether it was raining at the time. M160</p>									
Oscola Co., St. Cloud	02	1711EST			0	0	2	0	TSTM wind (50)
<p>High wind blew down utility poles and trees.</p>									
Nassau Co., Hilliard	04	1420EST			1	0	0	0	Lightning
<p>A 74-year-old woman was struck and killed by lightning. The person was outside her home in the garden. It is not known whether it was raining. F740</p>									
Nassau Co., Fernandina Beach	04	UNK			0	1	0	0	Lightning
<p>A 15-year-old male was injured when lightning struck a nearby utility pole.</p>									
Hillsborough Co., Apollo Beach	06	1600EST			0	0	3	0	TSTM wind (55)
<p>High wind damaged the slate roof of a house.</p>									
Pinellas Co., Pinellas	06	1628EST	1.0	30	0	0	5	0	Tornado (F0)
<p>A tornado damaged a flea market and 6 mobile homes. It also did minor damage to 10 other mobile homes. Damage was to roofs, carports, and porches.</p>									
<b>FLORIDA</b>									
Pasco Co., Zephyrhills	06	1715EST			0	0	3	0	TSTM wind (50)
<p>High wind downed power lines and trees.</p>									
Hernando Co., Brooksville (1 mi. E)	06	1825EST	1.0	30	0	0	4	0	Tornado (F0)
<p>A tornado caused major damage to the roof of a modular home. Several carports were damaged and trees and power lines were downed.</p>									
Alachua Co., Gainesville	09	1629EST	UNK	UNK	0	0	0	0	Tornado (F0)
<p>A tornado was reported by the observer at Gainesville Airport.</p>									
Hillsborough Co., Tampa	10	UNK			0	1	0	0	Lightning
<p>A 35-year-old male was injured by lightning. The person was on a golf course. It was not raining at the time.</p>									
St. Lucie Co., Jensen Beach	12	1500EST			0	0	3	0	TSTM wind (55)
<p>High wind destroyed a screened porch.</p>									
Indian River Co., Fellsmere	12	1610EST	1.0	30	0	0	4	0	Tornado (F0)
<p>A tornado did minor damage to 9 homes.</p>									
Highlands Co., Sebring	13	1400EST			0	0	3	0	TSTM wind (55)
<p>High wind damaged the roof of several mobile homes and downed trees.</p>									
Putnam Co., Palatka	13	1540EST			0	0	3	0	TSTM wind (55)
<p>High wind downed trees and power lines.</p>									
Broward Co., Ft. Lauderdale	13	1630EST			0	0	3	0	TSTM wind (55)
<p>High wind downed trees and power lines.</p>									
Palm Beach Co., Boca Raton	14	1306EST			1	2	3	0	TSTM wind (55)
Palm Beach Co., Hypoluxo	14	1320EST			0	1	0	0	TSTM wind (55)
Palm Beach Co., Delray Beach	14	1330EST			1	0	0	0	Lightning
<p>High wind blew over a concrete block wall which killed a 34-year-old male. Lightning struck and killed a 19-year-old woman on the beach. It was not raining at the time. High wind blew a man off a mobile home roof. M340 F190</p>									
Broward Co., Hallandale	14	1415EST			0	0	2	0	TSTM wind (55)
<p>High wind uprooted several large trees.</p>									
Brevard Co., Indialantic	14	1600EST			0	0	4	0	TSTM wind (55)
<p>High wind caused damage to a nursing home roof and destroyed a patio roof.</p>									
Indian River Co., Vero Beach	14	1633EST			0	0	4	0	TSTM wind (52)
<p>High wind destroyed a carport and downed a TV antenna and trees.</p>									
Pinellas Co., Largo	15	1000EST			0	0	4	0	TSTM wind (55)
<p>High wind blew the roof off of part of a storage building and rain damaged the contents.</p>									
Pinellas Co., Tarpon Springs	15	1100EST			0	0	5	0	Lightning
<p>Lightning started a fire which damaged a house.</p>									
Manatee Co., Longboat Key	18	UNK			0	0	4	0	Lightning
<p>Lightning started a fire which destroyed a 40' long sailboat.</p>									
Lee Co., Cape Coral	19	1400EST			0	0	3	0	TSTM wind (55)
<p>High wind destroyed a pool screen enclosure and blew a canoe several blocks.</p>									
Bradford Co., Starke (Int. N)	23	1708EST	1.0	30	0	0	2	0	Tornado (F0)
<p>County sheriff's office sighted a tornado which downed power poles and trees.</p>									
Columbia Co., Lake City	23	1725EST	1.0	30	0	0	2	0	Tornado (F0)
<p>County sheriff's office reported a tornado which damaged a mobile home.</p>									
Sarasota Co., Sarasota	24	1530EST			0	0	2	0	TSTM wind (50)
<p>High wind damaged a patio roof.</p>									
Manatee Co., Bradenton	24	1600EST	1.0	30	0	0	2	0	Tornado (F0)
<p>A tornado did minor damage to a home and a boat was blown airborne.</p>									



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>FLORIDA</b>									
Lee Co., Cape Coral	26	1400EST			0	0	3	0	TSIM wind (50)
									High wind destroyed a pool screen enclosure.
Martin Co., Stuart	27	1105EST			0	1	0	0	Lightning
									A man was injured by lightning. It was not raining at the time.
Santa Rosa Co., Munson	27	1700EST			0	0	0	0	TSIM wind (50)
									High wind blew down several trees.
Lee Co., Fort Myers	28	1230EST			0	1	0	0	Lightning
									A 13-year-old male was struck by lightning and injured while playing in his backyard. It was not raining at the time.
Volusia Co., Ormond Beach	28	1700EST			0	1	0	0	Lightning
									A 34-year-old male was struck and injured by lightning while he stood next to a van near the beach. It is not known whether it was raining.
Santa Rosa Co., Milton	30	1400EST			0	0	3	0	TSIM wind (50)
									A barn roof was destroyed by high wind and several trees were downed.
<b>9 GEORGIA</b>									
Statewide	01-31				4	0	0	?	Heat
									Above normal temperatures were common across Georgia during the month. Hundreds of people were treated for heat-related illnesses. Four deaths were listed as being due to the heat. Crops in some areas suffered from the lack of rain. The dates, locations, ages and sex of the fatalities are listed below.
									7/02/87 Richmond Co, Augusta M62P 7/10/87 Bibb Co, Macon F74P 7/14/87 Muscogee Co, Columbus P82P 7/31/87 Muscogee Co, Columbus M540
Hall County	01	1900EST			0	0	?	0	Tstm. Winds
White County	01	1930EST			0	0	?	0	Tstm. Winds
									Trees and powerlines were blown down by thunderstorm winds near Lake Lanier and in the southeast part of White County.
Hall Co, Gainesville	02	1930EST			0	0	?	0	Tstm. Winds
									Several trees were blown down on the north side of Gainesville. One tree fell on a house and another crushed a car.
Gwinnett Co, Snellville	04	2000EST			1	3	0	0	Lightning
									Lightning fatally injured a 57-year-old man and injured three others during a gathering at a park in Snellville. M570
Habersham Co, Demorest	06	1415EST			0	0	?	0	Tstm. Winds
									Thunderstorm winds downed more than 50 trees and damaged a utility shed near Demorest.
Hall County	06	1630EST			0	0	?	0	Tstm. Winds
									Thunderstorm winds downed trees and power lines in the northern part of Hall County.
Chatham County	06	1653EST			0	0	4	0	Tstm. Winds (51)
									Thunderstorm winds gusted to 59 mph at the Savannah Airport. Trees were downed in Garden City, Pooler, southern Savannah, and Isle of Hope and Skidaway Island. One tree fell on the roof of a house and caused \$5,000 damage.
Cherokee County	06	1700EST			0	1	0	0	Lightning
									An 87-year-old woman was injured when struck by lightning in the northeast part of Cherokee County.
Oconee County	06	1703EST			0	0	?	0	Tstm. Winds
									Roofs were damaged in the southeast part of Oconee County by thunderstorm winds.
Fulton Co, Roswell	06	1720EST			0	0	?	0	Hail (1.75)
Fulton Co, Atlanta	06	1740EST			0	0	4	0	Lightning
									0 0 4 0 Tstm. Winds
Clayton County	06	1800EST			0	2	0	0	Lightning
									Two workers were injured at Hartsfield Airport when the aircraft they were working on was struck by lightning. A house in Atlanta was heavily damaged by fire after being struck by lightning. Golfball size hail fell in Roswell.
<b>GEORGIA</b>									
Greene County	06	1730EST			0	0	?	0	Tstm. Winds
									Thunderstorm winds downed several trees at scattered locations in the county.
Emanuel Co, Swainsboro	06	1830EST			0	0	?	0	Tstm. Winds
									Two barns and several other farm buildings were destroyed and roofs damaged by thunderstorm winds. Several large pecan and pine trees were uprooted. One of the uprooted trees fell on a truck.
Spalding Co, 8N Griffin	06	1845EST	0.75	50	0	0	4	0	Tornado (F1)
									A short-lived tornado touched down just east of Highway 19/41 on the south side of the community of Sunnyside in northern Spalding County. Trees and power lines were downed along the 3/4 mile long path as it moved southeast. A barn was destroyed, several houses and a store damaged. The roof of a car wash collapsed onto a van. Marble size hail fell from the storm.
Washington Co, Sandersville	06	1900EST			0	0	?	0	Tstm. Winds
									Thunderstorm winds downed a few trees and power lines in Sandersville.
Randolph County	14	1921EST			0	0	0	0	Hail (0.75)
									Hail up to 3/4 inch in size fell south of Cuthbert.
Jefferson County	24	1530EST			0	0	?	0	Tstm. Winds
									Thunderstorm winds downed trees and power lines in Matthews and Zebina. One tree fell on a house.
Toombs Co, Vidalia	24	1715EST			0	0	4	0	Tstm. Winds
									Thunderstorm winds downed trees and power lines and damaged roofs of houses and garages in Vidalia.
Fulton Co, Atlanta	24	1740EST			0	0	4	0	Tstm. Winds (52)
					0	1	0	0	Lightning
									Thunderstorms winds gusting to 60 mph flipped a plane at Fulton County Airport. One man at the airport was injured when struck by lightning.
Laurens Co, Dublin	24	1800EST			0	0	4	0	Tstm. Winds
									Thunderstorm winds blew the roof off a barn and damaged the roof of a house. Trees and power lines were downed by the storm.
Hall Co, Gainesville	24	1845EST			0	0	4	0	Tstm. Winds
									Thunderstorm winds downed trees, one of which fell on a mobile home, and power lines in Gainesville. Several roofs were damaged and a few businesses had water damage from the heavy rain after the winds damaged the roofs.
Pike Co, Vega	24	1905EST			0	0	?	0	Tstm. Winds
									Three houses were damaged by falling trees that were blown down by thunderstorm winds in the community of Vega in southeast Pike County.
Bibb Co, Macon	25	1600EST			0	2	0	0	Tstm. Winds
									Thunderstorm winds downed trees at scattered locations in Macon. A window in a showroom was blown out and two people were injured by flying glass. Several cars had minor damage from wind-blown debris.
Ben Hill County	25	1600EST			0	0	?	?	Tstm. Winds
									Thunderstorm winds downed trees at scattered locations in the east half of the county. The most damage was in Fitzgerald.
Fulton Co, Atlanta	25	1630EST			0	0	4	0	Tstm. Winds
									Thunderstorm winds downed several trees in the Virginia-Highland area of Atlanta. A bus was damaged by one of the falling trees.
Fayette County	25	1900EST			0	0	4	0	Tstm. Winds
									Numerous large trees were downed in Peachtree City. One tree fell on a house.
Muscogee Co, Columbus	25	2108EST			0	0	?	0	Tstm. Winds
									Thunderstorm winds downed trees on power lines and blocked a road in Columbus. Quarter-inch hail fell from the storm.
Fulton and Gwinnett Counties	26	1530EST			0	0	4	0	Tstm. Winds
									Thunderstorm winds downed trees and power lines at scattered locations across Gwinnett and northern Fulton counties. A chicken house was flattened by the winds near Decula.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

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					KILLED		INJURED		PROPERTY		CROPS		
<b>— GEORGIA —</b>													
White Co, 10 SE Cleveland	26	1540EST			0	0	3	0	Tstm.Winds	Numerous large trees and power and phone lines were downed and a roof was blown off a chicken house in the White Creek Community.			
Habersham County	26	1540EST			1	3	0	0	Lightning	A 28-year-old man camping at Lake Russell was killed and three others suffered minor injuries when struck by lightning. The victims were in a tent located near a tall tree. M280			
Hall Co, 15W Cornelia	26	1545EST			0	0	?	0	Tstm.Winds	Several large trees were uprooted in northeast Hall County, 15 miles west of Cornelia.			
Rabun County	27	1417EST			0	0	?	0	Tstm.Winds	Thunderstorm winds downed trees in the extreme northeast corner of Rabun County and downed a tree onto a house 6 miles northeast of Clayton.			
Rabun Co, 6NE Clayton	27	1540EST			0	0	3	0	Tstm.Winds				
Upson Co, 3N Thomaston	27	1530EST			0	0	4	0	Tstm.Winds	Thunderstorm winds uprooted and broke off trees over a 5 square mile area north of Thomaston. Several of the trees fell on houses and cars. Six homes were damaged and 3 cars crushed. Several garages were unroofed.			
Mitchell Co, Baconton	27	1645EST			0	0	3	0	Tstm.Winds	Thunderstorm winds snapped off trees and blew down a building under construction near Baconton. Hail to 3/4 inch in diameter fell from the storm.			
					0	0	0	0	Hail (0.75)				
Rockdale Co, Conyers	27	1930EST			0	0	4	0	Tstm.Winds	Thunderstorm winds damaged the roof above 10 classrooms and adjacent hallways at Rockdale County High School. School books and equipment suffered water damage from the heavy rain. Trees and power lines were downed at scattered locations in both Rockdale and Newton counties.			
Newton County	27	1945EST			0	0	?	0	Tstm.Winds				
Dougherty Co, Albany	28	1600EST			0	0	?	0	Tstm.Winds	Thunderstorm winds downed several trees and power lines on the west and southwest sides of Albany. Wind gusts to 53 mph at the airport in Albany were recorded.			
Ware Co, Hoboken	28	1930EST			0	0	4	0	Lightning	Lightning caused a fire that damaged a church in Hoboken, and a few trees and power lines were downed in Waycross. Several accidents in Waycross were blamed on the storm.			
Ware County	28	1930EST			0	0	?	0	Tstm.Winds				
Dooley Co, Vienna	29	1550EST			0	0	?	?	Hail (1.75)	Ping pong ball size hail fell in Vienna with golf ball size hail falling just east of Vienna.			
Terrell Co, Dawson	29	1600EST			0	0	?	?	Hail (0.75)	Nickel size hail fell and a few trees were downed by thunderstorm winds on the east and southeast side of Dawson.			
					0	0	?	0	Tstm.Winds				
Jeff Davis Co, 10SE Hazlehurst	29	1630EST			0	0	3	0	Tstm.Winds	Thunderstorm winds downed trees and power lines in east Jeff Davis County. Two mobile homes were blown off their blocks.			
Appling & Jeff Davis Counties, 12SW Baxley	29	1715EST	0.1	50	0	0	4	4	Tornado (F1)	A short-lived tornado occurred along the Appling-Jeff Davis county line. Two mobile homes were destroyed. A mobile home and a travel trailer were heavily damaged. Approximately 100 trees were uprooted or broken off along the path. Several utility buildings were damaged as well as a few roofs in the area.			
Lowndes County	29	1900EST			0	0	3	5	Tstm.Winds, Hail (1.00)	Hail and thunderstorm winds heavily damaged about 25 fields of tobacco and blew down several pecan trees in the northern part of the county. Two buildings were destroyed and several others damaged just north of Valdosta.			
Wilkinson Co, Gordon	29	2115EST			0	0	?	0	Tstm.Winds	Thunderstorms winds downed trees and power lines in the eastern part of Twiggs County and around Gordon in Wilkinson County.			
Twiggs County	29	2130EST			0	0	?	0	Tstm.Winds				
<b>— GEORGIA —</b>													
Baldwin Co, SSE Milledgeville	29	2130EST			0	0	?	0	Tstm.Winds	Thunderstorm winds uprooted a few trees in southeast Baldwin County.			
Stephens Co, Toccoa	30	2010EST			0	0	?	0	Tstm.Winds	Thunderstorm winds downed trees and power lines in Toccoa.			
<b>10 IDAHO</b>													
Power County, Fairview and Funk Road area	15	2030MST			0	0	3	0	TSTM Wind	Five power poles snapped, and two transformers were destroyed.			
Caribou County, Turner	16	2000MST			0	0	4	4	TSTM Wind, Flash Flood	Heavy rains and strong winds caused considerable crop damage, and the Black Canyon Road east of Turner was washed out.			
Blaine County, Galena Summit	18	early morning			0	0	0	0	Heavy Snow	Five inches of snow fell on Galena Summit (8700 ft.) which stranded motorists. It was the first time in at least 28 years that snow plows were called out in the summer.			
Custer County, Sawmill Canyon	18	1000MST	0.5-	20	0	0	3	4	Tornado (F1) 1.0	Seventy to eighty trees, some 2 feet in diameter, were knocked down, a few in the campground. No deaths or injuries occurred, but there were many frightened campers.			
Shoshone County, Smelterville	21	1630MST			0	0	5	3	Flash Flood	Two feet of water, mud, and debris spilled out of Grouse Creek due to heavy rains and turned the town into a two-foot-deep lake.			
Bingham County, Springfield	21	1700MST			0	0	4	0	TSTM Wind	A strong wind toppled a mobile home and blew off its roof.			
Shoshone County, 8 E Avery	21	1755MST			2	0	4	0	TSTM Wind	An airplane was torn apart by violent winds in or near a thunderstorm.			
Lincoln County, 4 N Richfield	21	1945MST	?	?	0	0	4	5	Tornado (F1), Hail, TSTM Wind	Extensive crop damage was done, especially in grain and hay fields. Roofs were blown off of two barns and broken glass was embedded into paneling on the side of the room opposite the window at the Brauberger farm. One farmer lost 30 chickens when they smothered after being huddled together in the corner of a building.			
Bonner County, Harrison; and Kootenai County, Spirit Lake and Coeur d' Alene	25	2000MST			0	0	4	0	Hail (1.00), TSTM Wind	Numerous trees and power lines were downed, and minor road flooding occurred. The basement of the Coeur d' Alene library was flooded also.			
Bannock County, South of Inkom	28	1635MST			0	0	3	0	Flash Flood	Walker Creek Road south of Inkom was closed due to flooding.			
Jefferson County, Hamer	28	1700MST			0	0	0	5	Hail (0.50), TSTM Wind	Hail, wind, and heavy rain produced extensive crop damage. The thunderstorm lasted 20 minutes and produced 1.25 inches of rain.			
Lehami County, between Leadore and Gilmore	29	1253MST			0	0	0	0	Funnel Clouds	Forest Service personnel observed two funnel clouds.			
Power County, Rockland	29	1350MST			0	0	4	0	Flash Flood	A thundershower produced 1.2 inches of rain in 30 minutes and a total of 2.1 inches in 50 minutes at Rockland. House Canyon Road washed out along with other roads, and many basements were flooded.			
Ada County, Boise	29	1618MST			0	0	3	0	TSTM Wind (62)	A severe thunderstorm produced extensive power outages, and some trees and fences were toppled.			
Bonneville County, 10 NE Idaho Falls	29	1854MST			0	0	0	0	Funnel Cloud				
Valley County, 30 N McCall	29	2025MST			0	0	0	0	Funnel Cloud				

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

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					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	
<b>11 ILLINOIS</b>											
Southern Third of Illinois	05	1200-1510CST		1	1	5	?	Tstm.wind (52)			
				Thunderstorms moved from west to east across the south third of the state, producing 40 to 60 mph winds over the entire area. Tree damage was widespread, and it was reported in each of the 29 southern-most counties of the state. Practically every community in the area reported at least a few roads blocked by fallen trees. A motorcyclist was injured when he crashed into a fallen tree in Mt. Carmel (Wabash Co.). A rural Arma (Union Co.) woman was killed when struck on the head by a large tree limb. Tstm.wind F80							
Franklin Co. West Frankfort	06	0430-0515CST		0	0	3	0	Flash flood			
				Five and one-half inches of rain fell in the area in the two hours ending at 0500CST, causing flooding in the "Big Ditch" area of town.							
St. Clair Co.	06	1035-1105CST		0	0	7	5	Hail (3.5)			
				Huge hailstones crashed down, and damage to property and farm crops totaled 14 million dollars. Communities such as Belleville, Cahokia, Freeburg and Millstadt reported devastation. Hailstones 1 to 2 inches in diameter covered the ground to a depth of several inches at many locations. Trees were stripped of their leaves, crops in fields were smashed, and in some fields the hailstones actually produced small impact craters. At a rural location 3 N Millstadt, hailstones were measured at 3 1/2 inches in diameter. Insurance adjusters processed \$9,000,000 in claims for damaged automobiles (9000 cars with average damage of \$1000 apiece) and \$4,500,000 in claims for damaged houses (3000 houses with average damage of \$1500 each). In the aftermath of the storm, every automobile dealership in the Belleville area was advertising special sales on hail-damaged vehicles.							
Wayne Co.	06	1255CST		0	0	4	?	Tstm.wind			
		1315CST		0	0	?	?	Hail (.75)			
		1255-1325CST		0	0	4	0	Lightning			
				A severe thunderstorm caused considerable damage to trees and power lines, especially in the vicinity of Fairfield. Lightning started 6 fires.							
Wayne and Marion Counties	06	1240-1315CST		0	0	4	3	Tstm.wind			
		1240-1315CST		0	0	5	4	Hail (1.25)			
		1240-1330CST					5	0	Lightning		
				In Wayne Co., lightning sparked three oil storage tank fires, and several houses were damaged by large hail at Wamac. In Marion Co., 1 1/2 inch hail damaged 6 houses at Centralia, and a combination of wind and hail flattened corn and bean crops in the area.							
Edwards Co, Albion	06	1330CST		0	0	3	0	Tstm.wind			
				Winds toppled power lines and large trees.							
Wabash Co, Mt. Carmel	06	1330-1350CST		0	0	4	?	Tstm.wind (53)			
				Winds brought down large trees, resulting in power outages across large areas of town. Four utility poles toppled, and one automobile was crushed by a large tree. Damage was estimated at \$55,000.							
Stephenson and Winnebago Counties	06	1330-1434CST		0	0	5	?	Tstm.wind (57)			
				45 to 65 mph winds swept across the area, resulting in widespread structural and tree damage. 65 mph winds lifted the roof of the J. Rubin Service Company in Rockford.							
Adams and Pike Counties	06	1501-1530CST		0	0	3	?	Tstm.wind			
				Winds damaged electric utility poles and wires. Widespread power outages occurred in Quincy and in rural areas of the counties.							
Macoupin Co.	06	1500-1545CST		0	0	4	4	Tstm.wind			
		1540CST		0	0	4	4	Hail (1.5)			
				Winds estimated at 65 mph toppled many large trees. Barnett had 1 1/2 inch hail.							
Madison and St. Clair Counties	06	1520-1555CST		0	0	4	?	Tstm.wind (60)			
				A second severe thunderstorm moved across areas which only 5 hours earlier were struck by a savage hailstorm (see entry for St. Clair Co. at 1035CST). Winds often in excess of 45 mph toppled trees and utility poles across the two counties. At Barts Airport (in St. Clair Co.) winds were measured at 69 mph.							
Montgomery Co.	06	1545-1630CST		0	0	4	?	Tstm.wind			
				0	0	4	?	Hail (2.00)			
				Litchfield, hardest hit among many areas reporting wind and hail damage across the county, experienced many downed trees and power lines. A few plate glass windows were also broken.							
Wayne Co, Fairfield	06	1605CST		0	0	5	?	Tstm.wind (55)			
				A second severe thunderstorm to strike the area on the same day, winds tore a 30,000 square foot roof off the Airtex Products Co. plant.							
<b>— ILLINOIS</b>											
Knox Co.	06	1618CST	.1	20	0	0	3	?	Tornado (F1)		
				A small tornado touched down briefly at Knox County Road 19 and the Interstate 74 bridge, causing \$1500 damage to a corn bin.							
Shelby Co.	06	1705CST		0	0	5	4	Tstm.wind (70)			
				Exceptionally strong thunderstorm winds, estimated at 80 mph, caused much damage across the county. Findley had 70 mph winds and considerable structural damage, estimated at \$300,000 in the town. The Findley Marina experienced 80 mph winds which caused \$100,000 damage. Winds also flattened \$50,000 worth of crops in surrounding farm areas.							
Effingham Co.	06	1721CST		0	0	4	4	Tstm.wind (70)			
				High winds raked the county. Carlinville experienced tree damage and power outages, and farms in the area reported shed damage. A radio station measured a wind gust to 80 mph.							
Moultrie Co.	06	1730CST		0	0	4	?	Tstm.wind			
				Thunderstorm winds toppled several trees and damaged rural out-structures, mainly across the west half of the county.							
Edgar, Clark, and Coles Counties	06	1755-1855CST		0	0	4	?	Tstm.wind (72)			
				Thunderstorm winds caused widespread tree and minor property damage. The communities of Paris (Edgar Co.), Cleone (Clark Co.), and Charleston (Coles Co) sustained much tree and property damage. Winds were measured at 83 mph at the Coles County Airport.							
Jackson Co.	07	0015CST		0	0	5	0	Lightning			
				A lightning-caused fire destroyed a house.							
St. Clair Co, East St. Louis	07	1400CST		0	0	2	0	Lightning			
				Lightning disabled a water pumping station, and E. St. Louis residents had no water for 4 hours.							
Carroll Co, Milldegeville	08	1745CST		0	1	0	0	Lightning			
				One of five fingers from a bolt of lightning struck and critically injured a girl, age 9, on a softball field.							
Ogle Co, Byron	08	1840CST		0	0	3	0	Tstm.wind			
				Winds damaged trees and power lines.							
Macon Co.	09	1100CST		0	0	4	?	Tstm.wind			
				High winds downed trees at several locations across the county, but damage was centered at Decatur.							
Grundy Co, Minooka	09	1910-2010CST		0	0	4	?	Flash Flood			
				Four to 5 inches of rain poured down in one hour, resulting in considerable street and basement flooding. This storm occurred in association with a funnel cloud.							
Grundy Co, Morris area	09	1920CST		0	0	0	0	Funnel cloud			
				A well-formed funnel cloud was tracked from northern Morris in the area of Lisbon Road and Interstate 60 to the intersection of U.S. Route 6 and Ashley Road, a few miles to the east.							
Adams Co, Quincy	10	1310CST		0	0	4	?	Tstm.wind (44)			
				40 to 50 mph winds toppled several trees and damaged sheds in the area. 800 electric utility customers lost power for a few hours.							
Richland Co, Olney	10	2030CST		0	0	4	?	Tstm.wind			
		2030CST					?	Funnel cloud			
		2057CST		0	0	3	?	Hail (.75)			
				Winds toppled many trees and caused power outages. A few large hail stones also fell.							
Madison Co, Troy	14	PM		0	0	4	0	Tstm.wind			
				Winds toppled many large trees in Troy, and areas several miles to the south. Trees blocked roads and pulled down power lines in rural areas.							
Iroquois Co, S Donovan	15	1420CST	1/4	?	0	0	4	3	Tornado (F1)		
				A tornado touched down on the farm of Randie Orr, destroying several structures and injuring one cow. Some damage also occurred to nearby field crops.							
Champaign and Vermillion Counties	15	1420-1520CST		0	0	3	0	Tstm.wind (63)			
				Thunderstorm winds downed trees across central sections of the counties. Winds gusted to 73 mph at the Champaign County Airport.							
Stephenson and Winnebago Counties	16	1750-1830CST		0	0	3	0	Tstm.wind (40)			
				Scattered minor damage occurred across rural north portions of the counties.							
Franklin Co, Benton	23	1350-1430CST		0	0	3	0	Tstm.wind			
		1400CST		0	0	0	0	Funnel cloud			
				High winds coupled with heavy rain caused some damage in town. Street flooding was common. Many residents observed a funnel cloud.							

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>ILLINOIS</b>									
Shelby Co, Stewardson and Strasburg	25	night			0	0	4	0	Tstm. wind
Winds toppled trees and power lines in the area. A frame house under construction was destroyed.									
Stephenson Co, Freeport	26	1435CST			0	0	0	0	Hail (.75)
Winnebago Co.	26	1510-1605CST			0	0	5	2	Hail (1.25)
					0	0	3	2	Tstm. wind (57)
Boone Co.	26	1600-1625CST			0	0	5	?	Tstm. wind (52)
		1600-1625CST			0	0	4	?	Hail (1.5)
45 to 65 mph winds, accompanied at times by 1 1/2 inch hail, tore across the county, resulting in widespread damage. Winds toppled several large signs in southeastern Rockford. Winds (measured at 60 mph at the Rockford Airport) tore a large portion of roof off a Howard Johnson's Motor Lodge in Rockford. A mobile home was also damaged by a felled tree.									
McHenry Co.	26	1615-1640CST			0	0	4	?	Hail (2.00)
Scattered large hail fell across the county, accompanied by 30 to 40 mph winds. Most hail was less than one inch in diameter, but a few stones measured 2 inches across in southeastern portions of the county, where windows were broken and aluminum-sided buildings were dented. 1 1/2 inch hailstones also fell at Algonquin.									
Kane Co	26	1627CST			0	0	?	?	Hail (1.75)
Coles, Moultrie, and Cumberland Counties	26	1630CST			0	0	4	?	Tstm. wind (57)
Winds estimated conservatively at 65 mph knocked out electricity to large sections of Mattson and Oakland (Coles Co.) and in rural areas of Moultrie and Cumberland counties. One 1986 car was crushed by the trunk of a fallen tree that was 4 feet in diameter.									
Clinton Co.	26	1930CST			0	0	4	0	Tstm. wind (59)
Winds toppled trees and caused widespread power outages, especially in Carlyle and eastern Clinton County. The West Access Boat Marina suffered considerable damage.									
Coles Co.	27	1050-1125CST			0	0	3	0	Tstm. wind (55)
Winds up to 63 mph toppled trees and power lines at many county locations. Tree and electric utility damage was reported from Coles Station, Mattson and Charleston.									
Gallatin and Saline Counties	27	1430-1515CST			0	0	4	0	Tstm. wind
Winds toppled several large trees onto houses, causing considerable structural damage in Harrisburg, Equality, Ridgway and Eldorado. Two large trees struck the home of Mrs. Catherine Abell in Ridgway with such force that several holes were punched in the roof and prisms were knocked from a living room chandelier.									
Clay Co, Flora	28	1705CST			0	0	4	0	Tstm. Wind
Thunderstorm winds estimated to be in excess of 60 mph toppled trees and caused power outages.									
Adams Co, Biekamp Corner	29	0050CST			0	0	4	0	Tstm. wind
A small area of high winds estimated at 60 mph damaged a house and garage. A small car was pushed 30 feet along a driveway.									
Bureau and Henry Counties	29	1415CST			0	0	3	0	Tstm. wind
High winds toppled many large trees across the counties.									
Rock Island Co, Port Byron	29	1505CST	.75	?	0	0	3	?	Tornado (F1)
A tornado moved through two farms in rural Port Byron near Old Route 2. The tornado cut an erratic path, including a fortuitous U turn which spared a house owned by Richard "Pinky" Thompson.									
Knox Co, Galesburg	29	1605CST			0	0	4	4	Tstm. wind
		1605-1620CST			0	0	4	4	Hail (1.25)
Winds estimated at 60 mph, combined with hail as large as golf balls, caused considerable damage across the southwest section of town.									
Adams Co, Quincy	29	1730CST			0	0	0	0	Tstm. wind (64)
Winds measured at 74 mph at the Quincy Airport caused no damage other than a few trees down.									
Cook Co, Chicago Heights	29	1745CST			0	30	0	0	Lightning
Spectators at a basketball game were exiting the field through gates in a metal fence when lightning struck a tree and then jumped to the fence. Thirty people were injured, 2 seriously. Some of the people were knocked 4 to 5 feet.									
<b>ILLINOIS</b>									
Mercer Co, 2 NE New Boston	30	1700CST	.2	narrow	0	0	4	?	Tornado (F1)
A tornado destroyed 3 barns and a wash house, and damaged a farm house.									
Peoria and Tazewell Counties, Pekin	31	1505CST-			0	0	4	0	Tstm. wind
Thunderstorm winds estimated at 60 mph toppled large trees in and around Pekin. One house was so badly damaged by a large fallen tree that it was rendered uninhabitable.									
Entire State	1-31				6	0	0	6	Heatwave
July was an excessively hot and dry month. In addition, persistently high humidities added to the discomfort. Although scattered thunderstorms brought sufficient rain to some places, most areas experienced little significant rain from June 20 to July 23. Corn was stressed by heat and insufficient moisture, and the statewide yield was expected to be reduced by about one million dollars. Six metropolitan Chicago deaths were directly attributed to heat. One of the deaths occurred in a closed car in bright sun, 2 in closed and overheated apartments, 3 from overly strenuous outdoor activities. Heat M450, M450, M260, M550, M610, M300									
<b>12 INDIANA</b>									
INZ008-009 West-Central and Central Indiana Marion Co, Indianapolis	1	1000 to 1400 EST			2	1	?	?	Flash Flood
A winterlike storm system drenched central Indiana, dropping 4 to 5 inches of rain over such of the area. In Indianapolis the heavy rain set off flash flooding that caused 2 deaths, flooded streets and roads, and disrupted businesses. M15V, M140 Elsewhere across central Indiana many creeks and small streams were out of their banks, numerous county roads were closed due to high water, and one bridge was closed.									
Blackford Co, Hartford City	4	0521 EST			0	0	5	0	Lightning
Lightning set fire to the Teagarden Building in Hartford City and caused \$300,000 in damage.									
Warrick Co, Newburgh	5	1615 EST			0	0	0	0	TSTM Wind
Strong thunderstorm winds downed trees and power lines and tore aluminum siding off a house.									
Vanderburgh Co, Evansville	5	1617 EST			0	0	0	0	TSTM Wind
Strong thunderstorm winds downed trees, power lines, and an awning.									
Dubois Co: Holland	5	1640 EST			0	0	?	0	TSTM Wind
Huntingburg	5	1700 EST			0	0	?	0	TSTM Wind
Strong thunderstorm winds downed trees, power lines, and a barn in Holland. In Huntingburg large trees were blown down on a restaurant.									
Spencer Co: New Boston	5	1700 EST			0	0	0	0	TSTM Wind
Gentryville	5	1715 EST			0	0	0	0	TSTM Wind
Strong thunderstorm winds downed trees and power lines.									
Perry Co, Tell City	5	1710 EST			0	0	0	0	TSTM Wind
Strong thunderstorm winds downed trees. Wind speeds of 30 to 40 mph were reported.									
Greene Co, Bloomfield	5	1718 EST			0	0	0	0	TSTM Wind
Strong thunderstorm winds downed trees.									
Dubois Co, near Huntingburg	5	1725 EST			0	0	?	0	TSTM Wind
Strong thunderstorm winds tore the porch loose from a house.									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

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					KILLED	INJURED	PROPERTY	CROPS	
<b>INDIANA</b>									
Harrison County	05	1626 CST			0	0	3	0	Thunderstorm Winds
									Forty to fifty mile per hour winds were reported along with small hail 6 miles south of Corydon. Trees and power lines were blown down with 75% of the downed trees and power lines blocking roads. Numerous trees were down in the city of Corydon, along with telephone poles.  Power outages were reported at Sallsbury, Levinworth, Lanesville, Milltown, and DePaul.
Harrison County	05	1630 CST	Short narrow		0	0	4	0	Tornado (FO)
									A small mini tornado briefly touched down in the Harrison County Forrest, located 7 miles west of Corydon. The roof was lifted off of a 12 X 65 foot trailer. An eyewitness saw the trailer lift off of the ground and move four feet north into another smaller trailer. The lifted trailer was destroyed, and damaged the smaller one that it blew into. Trees at the same location were snapped off and blown about. One man was blown up against a fan near the trailer that was destroyed, but was uninjured. An eyewitness to the small tornado reported seeing the tornado bounce up and down briefly like a pogo stick.
Orange County	05	1630 CST	Short narrow		0	0	1	0	Tornado (FO)
									A mini tornado briefly touched down 8 miles south of Paoli in a wooded area. Trees were twisted and splintered. Some of the trees were reduced to kindling.
Daviess Co, Plainville and Washington	5	1738 EST			0	0	0	0	TSTM Wind
									Strong thunderstorm winds downed some large trees and uprooted others.
Martin Co, Shoals	5	1733 EST			0	0	0	0	TSTM Wind
									Strong thunderstorm winds downed both power lines and trees and also uprooted some trees.
Floyd County	05	1645 CST			0	0	2	0	Thunderstorm Winds
									Trees and power lines were blown down, blocking Highway 111 and Budd Road.
Washington County	05	1645 CST			0	0	2	0	Thunderstorm Winds
									Trees and power lines were blown down throughout Washington County.
Monroe Co, Stanford	5	1750 EST			0	0	0	0	TSTM Wind
									Strong thunderstorm winds downed trees.
Clark County	05	1700 CST			0	0	3	0	Thunderstorm Winds
									Thunderstorm winds destroyed a 250-foot-long steel and aluminum canopy over the truck stop diesel pumps at the Clarksville Key Stop Truck Stop on US 31 East.
Scott County	05	1709 CST			0	0	2	0	Thunderstorm Winds
									Trees and power lines were blown down throughout Scott County. Damage was most concentrated in the Austin area and near Scottsburg.
Clark County	05	1715 CST			0	0	2	0	Thunderstorm Winds
									Trees and power lines were blown down throughout southern Clark County, most concentrated near Jeffersonville. Power outages across the county were widespread.
Washington County	05	1715 CST			0	0	2	0	Thunderstorm Winds
									Trees and power lines were blown down, blocking roads near Salem. Power outages were widespread.
Jefferson County	05	1720 CST			0	0	2	0	Thunderstorm Winds
									Thunderstorm winds blew down trees across the county.
<b>INDIANA</b>									
IN2008 West-Central Indiana	6	0300 to 0900 EST			0	0	?	?	Flash Flood
									Heavy rain of up to 6 inches fell over west-central Indiana during the early morning hours. Small creeks in the area ran out of their banks, causing numerous high water situations in low areas. At Quincy in Owen County, a small pickup was swept off a county road by rapidly flowing water, but neither of its two passengers was injured. Many streets and basements were flooded throughout the area, and in Terre Haute 3 homes had first floor flooding.
Rush Co, Milroy	6	1138 EST			0	0	0	0	TSTM Wind
									Strong thunderstorm winds downed a few trees near Indiana State Road 3 and south of State Road 244 near Milroy.
Greene Co: Linton	6	1455 EST			0	1	2	0	Lightning
Dwensburg	6	1518 EST			0	0	0	0	Hail (1.75)
1W Bloomfield	6	1538 EST			0	0	3	0	TSTM Wind
Linton	6	1538 EST			0	0	?	?	Flash Flood
									In Linton a man was left semi-conscious when struck by lightning. Another man narrowly escaped injury when a tree fell on the truck he was driving just west of Bloomfield. Other trees were downed in Bloomfield. Flash flooding in and around Linton had several city streets and numerous county roads under water. Marble to golf ball size hail fell in Dwensburg.
Gibson Co, Francisco	6	1508 EST			0	0	?	0	TSTM Wind
									Strong thunderstorm winds downed power lines and large trees and damaged a mobile home.
Warrick Co, Chandler	6	1525 EST			0	0	0	0	TSTM Wind
									Strong thunderstorm winds downed power lines and large trees.
Pike Co, Winslow	6	1538 EST			0	0	0	0	TSTM Wind
									Strong thunderstorm winds downed trees and power lines.
Orange County	06	1500 CST			0	0	2	0	Thunderstorm Winds
									Trees were blown down throughout the county.
Orange County	06	1509 CST			0	0	3	0	Thunderstorm Winds
									Trees were reported blown down and severe damage to one mobile home was done in Paoli.
Washington County	06	1510 CST			0	0	2	0	Thunderstorm Winds
									Trees and power lines were blown down throughout the county. Ponding of water, up to ten inches, was reported in the downtown streets of Salem.
Dubois Co, Jasper	6	1618 EST			0	0	0	0	TSTM Wind
									Strong thunderstorm winds downed power lines and large trees.
Washington County	06	1517 CST			0	0	0	0	Funnel Cloud
									A funnel cloud was sighted 1/2 mile north of Salem.
Harrison County	06	1530 CST			0	0	2	0	Thunderstorm Winds
									Trees and power lines were blown down across the county.
Scott County	06	1535 CST			0	0	2	0	Hail (1.75)
									Hail, one and three-quarters inch in diameter, was reported one mile east of Austin.
Floyd County	06	1540 CST			0	0	2	0	Thunderstorm Winds
									Trees and power lines were down in the Floyd Knobs area, resulting in widespread power outages.
Clark County	06	1540 CST			0	0	2	0	Thunderstorm Winds
									Trees and power lines were blown down in Charlestown along with a few telephone poles. One metal shed in the city was blown from 4th Street to 5th Street.

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					KILLED	INJURED	PROPERTY	CROPS	
<b>INDIANA</b>									
Floyd County	06	1542 CST			0	0	3	0	Thunderstorm Winds
									Numerous trees were blown down in New Albany and dozens of trees were reported down one mile northeast of New Albany...with tops of trees sheared off. Vehicle damage was reported as a result of trees falling on top of them.
Clark County	06	1545 CST			0	0	3	0	Thunderstorm Winds
									Trees were uprooted in Jeffersonville. Large limbs were sheared off of trees. Live power lines rested in city streets, blocking traffic. Utility poles snapped. Trees blocked roadways. Hail, 3/4 inch in diameter, also fell.
Clark County	06	1545 CST			0	0	2	0	Thunderstorm Winds
									Trees were blown down in Clarksville and reported as lying in the same direction. 80 MPH wind speeds were recorded in Clarksville, along with 1/4 inch hail.
Clark County	06	1550 CST			0	0	2	0	Thunderstorm Winds
									Telephone poles snapped and power lines blew down in Utica. The entire city of Utica was without electrical power or telephone service.
Jefferson County	06	1600 CST			0	0	2	0	Thunderstorm Winds
									Trees fell on a house in Hanover, severely damaging it. Trees and power lines were blown down throughout Jefferson County.
Newton Co: Morocco SE Morocco 15W Kents	6	1822 EST			0	0	0	0	Tornado (F2)
	6	1817 EST 0.9	250		0	3	6	?	Hail (1.75)
	6	1820 EST			0	0	0	0	Hail (1.75)
	6	1822 EST			0	0	0	?	Hail (1.75)
									A strong mini-tornado touched down about 1/2 mile west of Morocco in a field. Initially its width was 100 yards and its intensity was F1. As the tornado moved into Morocco, its width increased to about 250 yards and its intensity reached the lower end of F2. The tornado ascended back into the cloud base at approximately 1817 EST, before leaving the town of Morocco. A total of 16 homes and 4 mobile homes sustained some degree of damage, and 3 people were injured. Large hail fell to the east of Morocco and to the northeast near Kents.
White Co, Reynolds	6	1850 EST			0	0	0	0	TSTM Wind
									Strong thunderstorm winds downed numerous trees.
Vigo Co, Praireton Vermillion Co, Centenary Parke Co, Rockville	6	1923 EST			0	0	0	0	TSTM Wind
	6	1935 EST			0	0	0	0	TSTM Wind
	6	1945 EST			0	0	0	0	TSTM Wind
									Strong thunderstorm winds downed trees in Rockville, Mecca, Montezuma, Rosedale, Centenary, and Praireton.
White Co, Wolcott	6	1941 EST			0	0	0	0	TSTM Wind
									Strong thunderstorm winds downed numerous trees.
INZ008 West-Central Indiana	6	1950 EST			0	0	?	?	Flash Flood
									A television weathercaster reported Otter Creek was out of its banks. High water caused some evacuations at the Elm Grove Trailer Park in Terre Haute. Old U.S. 41 in Parke and Vigo Counties was impassable. Big Raccoon Lake in Parke County was flooding.
Carroll Co, Delphi	6	2089 EST			0	0	0	0	TSTM Wind
									Strong thunderstorm winds downed trees which blocked Indiana State Road 25 just northeast of Delphi.
Cass Co, Logansport	6	2830 EST			0	0	3	0	TSTM Wind
									Strong thunderstorm winds caused widespread power outages; and extensive damage to vehicles resulted from fallen trees.
<b>INDIANA</b>									
Allen Co, Monroeville	6	2240 EST	short	narrow	0	0	3	0	Tornado (F1)
									An F1 tornado touched down briefly 2 1/2 miles north of Monroeville, blowing down 6 trees as large as 2 feet in diameter and flattening road signs. Witnesses reported hearing a roar, and a funnel was seen briefly touching the ground. Large hail was also reported just prior to tornado touchdown.
Knox Co, Westphalia and Bicknell	8	1145 EST			0	0	0	0	Flash Flood
									Thunderstorms containing heavy rain caused flash flooding which closed Highway 159 near Westphalia and Bicknell.
Harrison County	11	1118 CST			0	0	2	0	Thunderstorm Winds
									Trees were blown down over the southern part of Harrison County.
Switzerland Co.	11	1410 EST			0	0	0	0	TSTM Wind
									Indiana State Police at Versailles relayed a report of tree damage in Switzerland County. No specific location was given.
Miami Co, 2S Brisson AFB	12	1940 EST			0	0	0	0	TSTM Wind
									Strong thunderstorm winds downed trees.
Wabash Co, Lafontaine	12	1907 EST			0	0	3	2	TSTM Wind
									A number of reports were received of trees down over southern Wabash County from 1845 EST to 1930 EST. Trees were reported blocking the road at several locations, and a tree was reported down on a house in Lafontaine. Garden damage was also reported in Lafontaine.
Marion Co, Indianapolis	12	2115 EST			0	0	?	?	Flash Flood
									Amateur radio operators reported flooding in the northern half of Marion County. Interstates 465 and 69 were covered with water. Numerous secondary roads throughout the county were also flooded.
Morgan Co, 15E Mooresville	12	2115 EST			0	0	0	0	TSTM Wind
									Strong thunderstorm winds downed 2 trees.
Lawrence Co.	12	2135 EST			0	0	0	0	TSTM Wind
									Trees were blown down in Lawrence County at 4 locations.
Vermillion Co: Blanford Clinton	15	1528 EST	short	narrow	0	0	3	0	Tornado (F1)
	15	1526 EST			0	0	0	0	Hail (1.75)
									Hail up to golf ball size covered the ground at Clinton. A pilot reported a tornado touchdown at Blanford. State Police reported damage in one block of the town. Trees and tree limbs were down, and a the roof of a house was damaged.
Brown Co, Nashville	15	1610 EST			0	0	0	0	Hail (0.75)
Jackson Co, 1E Seymour	15	1652 EST			0	0	0	?	Hail (1.75)
									Marble to golf ball size hail covered U.S. Highway 50 east of Seymour. Some crops were damaged by the hail. A fallen tree blocked State Road 11 south of Seymour.
Cass Co, Georgetown	15	1726 EST	short	narrow	0	0	0	0	Tornado (F0)
									Multiple funnel clouds were sighted at Indiana State Road 24 at Georgetown with a brief touchdown reported by the County Sheriff. No damage was reported.
Huntington Co, Warren	26	1525 EST			0	0	3	0	TSTM Wind
									Strong thunderstorm winds downed trees and power lines.
Jay Co, Portland	26	1550 EST			0	0	3	0	TSTM Wind
									Power lines and limbs up to 4 inches in diameter were reported down near Portland.
Tipton Co, 3E Windfall	26	1606 EST			0	0	0	0	Hail (0.75)

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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	

## INDIANA

Union Co, College Corner and Liberty	26	1724 EST	0	0	0	0	0	0	TSTM Wind	Strong thunderstorm winds downed trees.
Marion Co: West Newton Beech Grove Shelby Co, Brookfield	26	1727 EST	0	0	0	0	0	0	TSTM Wind	
Johnson Co: Rocklane	26	1740 EST	0	0	0	0	0	0	TSTM Wind	
Hireveh	26	1751 EST	0	0	0	0	0	0	TSTM Wind	
Bartholomew Co, Hope	26	1800 EST	0	0	0	0	0	0	TSTM Wind	
	26	1815 EST	0	0	0	0	0	0	TSTM Wind	
	26	1835 EST	0	0	0	0	0	0	TSTM Wind	Strong thunderstorm winds downed trees.
Ripley Co, Lookout	26	1813 EST	0	0	0	0	0	0	TSTM Wind	Strong thunderstorm winds downed trees.
Decatur Co: Greensburg Lake McCoy	26	1821 EST	0	0	4	0	0	0	TSTM Wind	
	26	1830 EST	0	0	0	0	0	0	TSTM Wind	Strong thunderstorm winds downed trees and power lines. Several homes were damaged. Power was out over half of the city. An inch of rain fell.
Ripley Co: Batesville	26	1822 EST	0	0	0	0	0	0	TSTM Wind	
Osgood	26	1834 EST	0	0	0	0	0	0	Hail (0.75)	
Sunman	26	1850 EST	0	0	4	0	0	0	TSTM Wind	Strong thunderstorm winds downed trees in Batesville. Hail 3/4 of an inch in diameter fell in Osgood. At Indiana Lake Campground near Sunman, 15 trailers and 2 cars were damaged by fallen trees.
Ohio Co, Rising Sun	26	1850 EST	0	0	0	0	0	0	TSTM Wind	A ham radio operator with a Heathkit gauge measured a wind gust to 60 mph. The strong winds downed trees.
Jefferson County	26	1815 CST	0	0	2	0	0	0	Thunderstorm Winds	Trees and power lines were blown down in and around Madison.
Wayne Co: Centerville Boston	26	1903 EST	0	0	0	0	0	0	TSTM Wind	
	26	1924 EST	0	0	0	0	0	0	TSTM Wind	Strong thunderstorm winds downed trees.
Rush Co, New Salem	26	1945 EST	0	0	0	0	0	0	TSTM Wind	Strong thunderstorm winds downed trees.
Hendricks Co, Brownsburg	27	1150 EST	0	0	0	0	0	0	TSTM Wind, Hail (1.75)	Strong thunderstorm winds downed trees, and golf ball size hail fell in Brownsburg.
Marion Co, Acton	27	1227 EST	0	0	0	0	0	0	Hail (1.5)	
Vigo Co, Terre Haute	27	1256 EST	0	0	0	0	0	0	TSTM Wind	Strong thunderstorm winds downed trees both in Terre Haute and Farmersburg. Also, the Vigo County Sheriff reported trees down at numerous locations across the county at 1316 EST.
Shelby Co, 1W Waldron	27	1307 EST	0	0	0	0	0	0	TSTM Wind	Strong thunderstorm winds downed trees and power lines.
Dubois Co, Jasper	27	1430 EST	0	0	0	0	0	0	TSTM Wind	Strong thunderstorm winds downed power lines.
Knox Co, Bicknell	27	1430 EST	0	0	0	0	0	0	TSTM Wind	
Daviess Co, Washington, Elnora	27	1435 EST	0	0	?	0	0	0	TSTM Wind	
Pike Co, Petersburg	27	1435 EST	0	0	0	0	0	0	TSTM Wind	Strong thunderstorm winds downed large trees at several locations. Near Washington and Elnora a barn was also damaged.

## INDIANA

Washington County	27	1330- 1350 CST	0	0	2	0	0	0	Thunderstorm Winds	Trees were blown down throughout the county, most numerous near Salem and in Fredricksburg. 56 MPH winds were recorded north of Salem.
Harrison County	27	1412- 1430 CST	0	0	2	0	0	0	Thunderstorm	Trees and power lines were blown down near Palmyra.
Floyd County	27	1430 CST	0	0	2	0	0	0	Thunderstorm Winds	Numerous trees and power lines were blown down near Floyd Knobs.
Elkhart Co: Bristol	29	1510 EST	0	0	?	?	?	?	TSTM Wind	
2S Goshen	29	1540 EST	0	0	?	?	?	?	TSTM Wind	
New Paris	29	1600 EST	0	0	?	?	?	?	TSTM Wind, Lightning	Strong thunderstorm winds downed trees at several locations. Near Goshen an old barn was damaged. A lot of power outages occurred over eastern Elkhart County, mostly due to severe lightning.
Whitley Co, Columbia City	29	1655 EST	0	0	0	0	0	0	TSTM Wind	Just southwest of Columbia City, winds of 60 mph were reported.
Kosciusko Co: Syracuse	29	1703 EST	0	0	?	?	?	?	TSTM Wind	
Warsaw	29	1703 EST	0	0	?	?	?	?	Hail (1.5)	Strong thunderstorm winds downed numerous tree limbs and caused power outages in Syracuse. At Warsaw, hail from 3/4 of an inch in diameter to golf ball size lasted about 5 minutes and covered the ground.
Kosciusko Co, 2 1/2 S Warsaw	29	1725 EST	0	0	?	?	?	?	TSTM Wind, Hail (1.5)	Golf ball size hail was reported by a HAM spotter south of Warsaw. Two trees were downed on cars, and numerous power outages occurred due to tree limbs and lightning in Warsaw.
Huntington Co, Huntington	29	1733 EST	0	0	3	0	0	0	TSTM Wind	In Huntington 69 mph winds were measured. Numerous trees and power lines were reported down.
Whitley Co, South Whitley	29	1735 EST	0	0	4	4	0	0	TSTM Wind	A barn was leveled, a corn silo was destroyed, 75 trees were uprooted, 3 cars and several homes were damaged by fallen trees, and power lines were reported down near South Whitley.
Elkhart Co, Goshen	29	1800 EST	0	0	?	?	?	?	Hail (0.75)	Half inch hail was reported at the Goshen Airport, while 3/4 inch hail that covered the ground was reported 1 mile east-southeast of the Goshen Airport.
Huntington Co.	29	1815 EST	0	0	3	0	0	0	TSTM Wind	Numerous trees were reported down in southern Huntington County with the trees blocking the road at several locations.
Mabash Co.	29	1815 to 1830 EST	0	0	4	0	0	0	TSTM Wind	Several barns were reported blown down northeast of Urbana, and numerous trees and power lines were reported down in and around Lafontaine.
Grant Co.	29	1840 to 1855 EST	0	0	3	0	0	0	TSTM Wind	Numerous trees and power lines were reported down in the city of Marion and across Grant County. Trees were reported blocking the road in several locations.
Marshall Co, Culver	29	????	0	0	?	?	?	?	TSTM Wind	Strong thunderstorm winds downed trees all around Culver. One tree fell on 2 cars, and some houses were damaged.
Fulton Co, Kings Lake and Leiters Ford	29	1930 EST	0	?	?	?	?	?	TSTM Wind	Strong thunderstorm winds downed trees and power lines.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED <sup>1</sup> DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>— INDIANA</b>									
Madison Co: Summitville	29	1928 EST			0	0	0	0	TSTM Wind
3NE Anderson	29	1925 EST			0	0	0	0	TSTM Wind
1N Anderson	29	1938 EST			0	0	0	0	TSTM Wind
Delaware Co, 7W Muncie	29	1938 EST			0	0	0	0	TSTM Wind
					Strong thunderstorm winds downed trees. Small hail also fell.				
Pulaski Co, Minaasac	29	1958 EST			0	0	?	?	TSTM Wind
					Strong thunderstorm winds downed trees and caused power outages in Minaasac. Also, heavy rain caused some street flooding.				
Hancock Co, Greenfield	29	2853 EST			0	0	0	0	Hail (1.0)
<b>13 IOWA</b>									
Sac County, Odebolt	04	1455 CST			0	0	4	0	Lightning
					Lightning struck a barn on the southeast edge of Odebolt, setting it on fire. The barn was destroyed and 35 pigs killed.				
Van Buren County, Farmington	04	1950 CST			0	0	3	0	Lightning
					Lightning struck a house in Farmington, causing minor damage.				
Woodbury County: 2N Sloan	05	1605 CST			0	0	0	0	Funnel Cloud
Luton	05	1625 CST			0	0	0	0	Funnel Cloud
Monona County, 4S Sloan	05	1720 CST	.2	15	0	0	0	2	Tornado (F0)
					Two thunderstorms moved through the area. The first produced funnel clouds. The second produced a small tornado south of Sloan.				
Adair County, Bridgewater	05	2230 CST			0	0	3	0	Lightning
					Lightning killed several Charolais/Angus cows and a Charolais bull near Bridgewater.				
Jones County, Wyoming	06	1216 CST			0	0	3	4	Hail (.75)
Jackson County, Baldwin	06	1220 CST			0	0	3	4	Hail (.75)
Jones County, Monticello	06	1230 CST			0	0	4	0	Lightning
Jackson County, Maquoketa	06	1240 CST			0	0	3	3	Tstm.Winds (50+)
					Thunderstorms moved through Jones and Jackson counties. Dime-size hail fell in Wyoming and Baldwin. Lightning damaged two homes in Monticello. Strong winds downed several trees in Maquoketa.				
Blackhawk County, La Porte City	06	1400 CST			0	0	3	4	Hail (.75)
Buchanan County, Brandon	06	1439 CST			0	0	3	4	Hail (.75)
Benton County: 3N Urbana	06	1442 CST			0	0	3	4	Hail (.75)
Urbana	06	1449 CST			0	0	3	3	Hail (.75)
Linn County: Center Point	06	1459 CST			0	0	3	4	Hail (.75)
Alburnette	06	1520 CST			0	0	3	4	Hail (.75)
Palo	06	1525 CST			0	0	0	0	Funnel Cloud
9 N Cedar Rapids	06	1528 CST			0	0	0	0	Funnel Cloud
1 W Cedar Rapids	06	1549 CST			0	0	0	0	Funnel Clouds
Cedar Rapids	06	1603 CST			0	0	4	2	Hail (1.00)
10 SE Cedar Rapids	06	1617 CST			0	0	3	4	Hail (1.00)
Johnson County, Solon	06	1640 CST			0	0	4	4	Hail (1.75)
					Severe thunderstorms developed near Waterloo and then moved southeast. Numerous reports of dime-size hail along with 40 MPH winds were received as the storms moved from southeast Blackhawk County into Linn County. The storms gained strength over Linn County, and several funnel clouds were reported west and north of Cedar Rapids. One-inch diameter hail occurred in and southeast of Cedar Rapids. Golf ball size hail fell at Solon in Johnson County before the storms weakened.				
Sioux County: Hawarden	07	0010 CST	2	50	0	0	5	3	Tornado (F2)
5E Rock Valley	07	0020 CST			0	0	3	3	Hail (.75)
Sioux Center	07	0030 CST			0	0	4	4	Tstm. Winds (58)
Plymouth County, LeMars	07	0010 CST			0	0	3	4	Hail (.75)
Woodbury County, 3W Correctionville	07	0020 CST			0	0	4	4	Tstm.Winds (60)
O'Brien County: Sheldon	07	0030 CST			0	0	3	4	Hail (.75)
Sutherland	07	0045 CST			0	0	4	4	Tstm.Winds (61)
2N Sanborn	07	0045 CST			0	0	3	3	Tstm.Winds (60)
Hartley	07	0050 CST			0	0	3	3	Hail (1.75)
Cherokee County: 3NE Cherokee	07	0045 CST			0	0	3	0	Lightning
Quimby	07	0045 CST			0	0	3	0	Lightning
Clay County: 6SW Royal	07	0050 CST			0	0	0	0	Funnel Cloud
Royal	07	0103 CST			0	0	3	3	Tstm.Winds (52)
Spencer	07	0105 CST			0	0	4	4	Tstm.Winds (62)
Buena Vista County, Marathon	07	0110 CST			0	0	3	3	Tstm.Winds (52)
<b>— IOWA</b>									
Carroll County, Carroll	07	0145 CST			0	0	3	4	Tstm.Winds (54)
Kossuth County, 3NW Algona	07	0200 CST			0	0	4	0	Lightning
Calhoun County, Rockwell City	07	0200 CST			0	0	3	0	Lightning
					A complex of severe thunderstorms moved into Northwest Iowa around Midnight. Numerous reports of dime to golf ball size hail were received. Winds of 60 to 70 MPH were common. A tornado that touched down in Union County, South Dakota about 3 miles north of Alcester, moved southeast into Iowa and caused considerable damage to a farm near Hawarden. The total path length was 8 miles, but only 2 miles of it occurred in Iowa. A funnel cloud was reported in Clay County. The storms weakened as they moved southeast into Central Iowa.				
Clarke and Northwest Decatur Counties	07	Early Morning			0	0	5	4	Flash Flood
					During the early morning hours, 4 to 6 inches of rain fell over parts of Southwest and South-Central Iowa. Flash flooding occurred in Clarke and Decatur counties. Bridges were washed out in Clarke County.				
Ia County, 1N Ida Grove	08	1238 CST			0	0	0	0	Funnel Cloud
Buena Vista County, 1N Linn Grove	08	1310 CST			0	0	0	0	Funnel Cloud
Polk County, Warren County, Indianola	08	1333 CST			0	0	4	0	Tstm.Winds (50+)
Warren County, Marion County: Columbia	08	1400 CST			0	0	4	0	Lightning
2NW Pella	08	1420 CST			0	0	3	0	Lightning
Cherokee County, 6NE Cherokee	08	1450 CST	.1	15	0	0	3	3	Tornado (F0)
Hamilton County, 8N Roland	08	1505 CST	.1	15	0	0	3	3	Tornado (F0)
Story County, Nevada	08	1525 CST	1	25	0	0	4	3	Tornado (F1)
Warren County, Hartford	08	1525 CST			0	0	4	3	Tstm.Winds (60)
Muscatine County, Cranston	08	1530 CST			0	0	3	3	Hail (1.00)
Appanoose County, Milledgeville	08	1712 CST			0	0	3	3	Tstm.Winds (52)
Black Hawk County, Western Waterloo	08	1720 CST			0	1	0	0	Lightning
Tama County, Elberon	08	1730 CST			0	0	5	4	Tstm.Winds (78)
Benton County: Belle Plaine	08	1747 CST			0	0	3	4	Tstm.Winds (60)
Vinton	08	1758 CST			0	0	3	3	Tstm.Winds (50+)
Van Horne	08	1820 CST			0	0	4	4	Tstm.Winds (61)
Urbana	08	1835 CST			0	0	3	4	Hail (1.00)
4N Urbana	08	1855 CST			0	0	4	4	Tstm.Winds (57)
Linn County, Central City	08	1923 CST			0	0	0	0	Funnel Cloud
Clayton County, 2N Strawberry Point	08	1900 CST			0	0	0	0	Funnel Cloud
Delaware County, Manchester	08	1930 CST			0	0	4	3	Tstm.Winds (50+)
	08	2000 CST			0	0	2	3	Tstm.Winds (50)
					A large thunderstorm complex formed across Iowa during the early afternoon and evening hours. The storms tracked northeast through the afternoon and evening hours. Numerous reports of high winds and hail were received. Most of the wind gusts were in the 60 to 70 MPH range. A microburst occurred over the western part of Waterloo, producing 65 to 90 MPH winds. Lightning injured a 9-year-old girl in Appanoose County. Lightning struck a sewage treatment plant in Indianola causing between \$15,000 and \$30,000 damage. Eight cattle were killed on a farm in Marion County by lightning. Many funnel clouds were sighted, as were 3 tornadoes. One tornado touched down in Marion County, another in Cherokee County. These were brief touch-downs with no significant damage reported. The third touched down in Hamilton County, lifting a barn off its foundation.				
Page County, 7SW Clarinda	08	2320 CST	1	25	0	0	4	3	Tornado (F1)
					A tornado touched down on a farm southwest of Clarinda, causing considerable damage.				
Montgomery County, Wales	09	0300 CST			0	0	3	5	Flash Flood
					Six inches of rain fell around Wales, flooding fields and forcing creeks out of their banks.				
Page County, Clarinda	09	0455 CST			0	0	6	6	Flash Flood
					Rainfall up to 7.6 inches was reported in the Clarinda area, flooding streets and forcing creeks out of their banks. Water rose to window levels of cars and a number of buildings were flooded. Some roads were washed out. Damage in Clarinda alone was \$600,000. Area crops were damaged as water flooded fields.				
Taylor County, New Market	09	0500 CST			0	0	3	0	Lightning
					Lightning struck a home in New Market, setting it on fire.				
Page County, Clarinda	09	0715 CST			0	0	3	5	Flash Flood
					Continued heavy rains caused flooding on the Nodaway River which runs through Clarinda.				
Pottawattamie County, 3W Treynor	09	0827 CST			0	1	0	0	Lightning
					Lightning struck and injured a 37-year-old woman who was directing traffic at a construction site.				



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED <sup>1</sup> DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>IOWA</b>									
Woodbury County, Sioux City	09	2315 CST			0	0	3	0	Lightning
									Lightning struck a tree in Sioux City, sending it through the roof of a house.
NEZ010-IAZ012-013 Southwest Iowa	09-	All Day			0	0	6	5	Flooding
		15 Morning							Heavy rains that fell over Southwest Iowa during the first part of the month combined with the very heavy rain on the 9th pushed rivers over flood stage for several days. Flooding was reported on the following rivers: West Nishnabotna, Nishnabotna, Nodaway, East Fork 102 River, Thompson and Chariton rivers.
Sioux County: Orange City	11	1307 CST			0	0	3	0	Lightning
Hosper	11	1400 CST			0	0	3	0	Lightning
									Lightning struck a college building in Orange City, setting it on fire. A house was struck in Hosper, causing minor damage.
Kossuth and Winnebago Counties, 5 SW Buffalo Center	11	1617 CST	5	20	0	0	5	4	Tornado (F1)
Wright County, Clarion	11	1930 CST			0	0	3	5	Hail (1.75)
Webster County, 3S Gowrie	11	2000 CST			0	0	0	0	Funnel Cloud
Humboldt County, 1S Humboldt	11	2114 CST			0	0	0	0	Funnel Clouds
Story County, Ames	11	2152 CST			0	0	4	4	Tstm.Winds (60)
Marshall County, 1S Marshalltown	11	2246 CST	.3	15	0	0	3	3	Tornado (F0)
									Severe thunderstorms formed over North-Central Iowa and developed into Central Iowa. Golf ball size hail covered the ground in Wright County. A funnel cloud was sighted in Webster County, and 2 more in Humboldt County. A tornado did considerable damage in and southwest of Buffalo Center. A second tornado touched down briefly in Marshall County. Winds gusted to 69 MPH at Ames.
Polk, Adair, Union, Ringgold, and Taylor Counties	12	0200 CST			0	0	4	5	Flash Flood
									Heavy rains fell once again over much of the western two-thirds of Iowa. This continued the flooding over the southwest counties, and prompted the issuance of a flash flood warning for Polk, Adair, Ringgold, Taylor and Union counties. Flash flooding from this event was fairly minor even though locally between 4 and 6 1/2 inches of rain fell in the area.
IAZ009-010-014 West-Central, Central and Southeast Iowa	11-	All Day			0	0	5	5	Flooding
		16 Morning							Heavy rains spread general flooding into parts of West-Central, Central and Southeast Iowa. Flooding occurred on the following rivers: North Raccoon, South River, South Skunk and North Skunk.
IAZ001-005 Northwest Iowa	12-	All Day-			0	0	4	4	Flooding
		18 Morning							Heavy rains over Northwest Iowa caused minor flooding along the Little Sioux River.
Worth and Mitchell Counties, 1S Grafton to Mitchell	14	1540 CST			0	0	6	6	Hail (1.75)
									A severe thunderstorm produced copious amounts of golf ball size hail. Most of the hail fell in an area 15 miles long and 4 miles wide between Grafton and Mitchell. Hail accumulated to a depth of 6 to 8 inches, destroying over 36,000 acres of crops. Damage was well over \$1,000,000 in agriculture.
Kossuth County: Wittmore	14	1650 CST			0	0	3	5	Hail (1.00)
4S Algona	14	1655 CST			0	0	4	5	Hail (1.00)
									A thunderstorm produced quarter-size hail over the southwest part of Kossuth County.
Ida County, Ida Grove	14	1725 CST			0	0	4	5	Tstm.Winds (50+)
Crawford County, Charter Oak to Dow City	14	1820 CST			0	0	4	6	Hail (1.75)
									Thunderstorms moved into Ida County producing high winds, downing trees and damaging crops. As they moved into Crawford County, hail up to golf ball size pelted crops. The ground was covered by the hail. Damage to crops occurred on about 28,000 acres in Crawford County. Agricultural damage was estimated near \$1,000,000.
Grundy County, Fern	14	1900 CST	.1	15	0	0	2	3	Tornado (F1)
Black Hawk County, 7 NE LaPorte City	14	2000 CST	.5	20	0	0	3	3	Tornado (F0)
									A line of thunderstorms moved into Grundy and Black Hawk counties. They spawned 2 small tornadoes. One touched down briefly near Fern in Grundy County. The second was spotted on Interstate 380, south-east of Waterloo.
Adams County, 2 NE Corning	14	2110 CST			0	0	3	3	Tstm.Winds (70)
									A thunderstorm packing 80 MPH winds blew a Highway Patrol car off the highway northeast of Corning.
Story County, Nevada	15	1505 CST			0	0	4	0	Tstm.Winds (60)
									A thunderstorm produced strong winds and did considerable damage to trees and a garage in Nevada.
Woodbury County: Hornick	18	1810 CST	.1	15	0	0	1	3	Tornado (F0)
3E Holly Springs	18	1810 CST			0	0	4	0	Tstm.Winds (50)
									A thunderstorm moved into Woodbury County, producing strong winds east of Holly Springs. A large wooden shed and adjacent porch were destroyed although no crop damage occurred. A small tornado touched down for 5 to 7 seconds near Hornick.
Black Hawk County, Raymond	18	2335 CST	.5	20	0	0	4	3	Tornado (F1)
									A tornado touched down near Raymond. A building was destroyed at a lumberyard, another building had the roof taken off.

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					KILLED	INJURED	PROPERTY	CROPS	
<b>IOWA</b>									
Clinton County, Clinton	21	1605 CST			0	0	4	3	Tstm.Winds (50+)
									Thunderstorm winds blew over several trees and a few windows were broken in Clinton.
Scott County, Davenport	21	1700 CST			0	0	4	3	Tstm.Winds (57)
									Sixty to seventy MPH winds caused a truck to jackknife in Davenport. Trees were blown down and plate glass windows were blown out of stores. A gantry crane was blown over at Lock and Dam 15.
IAZ001-005 Northwest Iowa	21	All Day-			0	0	4	4	Flooding
		25 Morning							Additional rains over Northwest Iowa pushed the Little Sioux River out of its banks again. Flooding was minor.
Woodbury County, Sioux City	24	1706 CST			0	0	5	4	Tstm.Winds (58)
Monona County, Onawa	24	1720 CST			0	0	4	4	Tstm.Winds (50)
Story County, Ames	24	1814 CST			0	0	3	4	Hail (.75)
Crawford County, Vail	24	1900 CST			0	0	3	4	Tstm.Winds (50+)
Carroll County, Carroll	24	1934 CST			0	0	3	4	Tstm.Winds (52)
Polk County, Windsor Heights	24	1940 CST			0	0	3	3	Tstm.Winds (50)
Madison County, Earlham	24	2020 CST			0	0	0	0	Funnel Cloud
									A line of thunderstorms moved rapidly southeast across Northwest Iowa into Central Iowa. Considerable damage occurred in Sioux City and Morningside areas of Woodbury County as 67 MPH winds were recorded there. Some urban flooding also was reported in the Sioux City area. Most of the damage across the state was due to winds. They were generally around 60 MPH. A funnel cloud was sighted near Earlham.
Winnebago County, Forest City	27	2120 CST			0	0	4	4	Tstm.Winds (70)
									A thunderstorm produced winds of 80 MPH near Forest City. Many trees and power lines were downed.
Clinton County: Camanche	29	1448 CST			0	0	4	4	Tstm.Winds (57)
1 1/2S Low Moor	29	1530 CST	2	25	0	0	5	5	Tornado (F1)
									Thunderstorms moved into Clinton County. The first had 60 to 70 MPH winds which downed trees and power lines. The next produced a tornado south of Low Moor. The tornado damaged buildings on 3 farms, lifting one barn off its foundation.
Howard County, Cresco	29	1710 CST			0	0	3	4	Tstm.Winds (50+)
Winnebago County, Allamakee Counties, 10W-2S Waukon	29	1810 CST	10	30	0	0	6	5	Tornado (F2)
Waukon	29	1825 CST			0	0	4	4	Tstm.Winds (52)
Lansing	29	1840 CST			0	0	3	4	Tstm.Winds (50+)
									Thunderstorms moved across extreme Northeast Iowa. Winds downed 12 large trees at Cresco. A tornado touched down 10 miles west of Waukon and moved through largely rural areas until it hit a lumberyard 2 miles south of Waukon. There it destroyed 2 buildings and threw 2x4s through the walls of others. Damage at the lumberyard alone was around \$250,000. Winds downed many large trees in Waukon and in Lansing.
Marshall County, Marshalltown	30	Afternoon			1	0	0	0	Heat
									An elderly woman was found dead of heat stroke in an un-air-conditioned apartment. F82P
Warren County, Indianola	30	Afternoon			1	0	0	0	Heat
									An elderly man was found dead of heat stroke and dehydration after trying to install a mailbox. M790.
Marshall County, Marshalltown	31	Evening			1	0	0	0	Heat
									A middle-aged woman was found dead of heat stroke in an un-air-conditioned apartment. F64P
Pottawattamie County, Council Bluffs	31	Evening			1	0	0	0	Heat
									An elderly woman was found dead of heat stroke in an un-air-conditioned house in Council Bluffs. The afternoon high of 98 degrees at nearby Eppley Airport was the 13th consecutive day with temperatures of 90 degrees or above. F85P
<b>14 KANSAS</b>									
Seward Co, SW Liberal	01	1715CST			0	0	2	3	Hail (1.5)
Gray Co, Montezuma	01	1900CST			0	0	2	3	Hail (1.0)
									A thunderstorm dropped large hail in a few spots as it moved from near Liberal toward Dodge City. Little damage resulted.
Thomas Co: 3S Brewster	01	2215CST			0	0	2	3	TSTM Wind (61)
5N Levant	01	2220CST			0	0	0	0	Funnel
									A thunderstorm wind gust was estimated at near 70 mph south of Brewster, and a funnel was seen north of Levant. The funnel stayed aloft and some crops were damaged by the wind.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

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	

## KANSAS

Harper Co: Attica Anthony Sumner Co, Caldwell	02 0255CST 02 0315CST 02 0400CST				0 0 0 0 0 0	2 0 3 0 2 0	0 0 0 0 0 0	TSTM Wind (52) TSTM Wind TSTM Wind	
A severe thunderstorm formed in northwest Harper County and produced damaging winds as it moved southeast. Five power poles were downed in Anthony and 3 more just north of Caldwell.									
Republic Co, Kackley Jewell Co: Randall Jewell	03 1735CST 03 1745CST 03 1754CST				0 0 0 0 0 0	0 2 2 3 2 3	0 3 1 (1.75) 1 (1.5)	Hail (1.5) Hail (1.75) Hail (1.5)	
A severe thunderstorm formed in southwest Republic County and drifted west-southwest. Large hail damaged crops and broke a few windows. Runoff from the heavy rain washed out the railroad track between Randall and Jamestown.									
Sumner Co, South Haven Chautauqua Co: Hale Sedan Montgomery Co, Coffeyville	04 0225CST 04 0430CST 04 0445CST 04 0600CST				0 0 0 0 0 0 0 0	2 3 2 0 2 0 3 0	3 0 1 (1.75) 1 (1.75) 3 (61)	Hail (1.75) TSTM Wind (52) TSTM Wind (52) TSTM Wind (61)	
A cluster of thunderstorms moved east across the counties bordering Oklahoma from south of Wichita to Coffeyville. The storms produced winds of 60 to 70 mph. Minor damage was done to roofs and trees.									
Lane Co, Dighton	04 0345CST				0 0	4 0	0 0	TSTM Wind (68)	Thunderstorm winds near 80 mph knocked down trees and power lines at Dighton.
Finney Co, Garden City Gray Co, Cimarron Haskell Co, Sublette Ford Co, Dodge City Arpt. Meade Co, Meade Clark Co: SE Minneola Ashland Edwards Co: 75 Offerle Kinsley Kiowa Co, Greensburg	04 0353CST 04 0430CST 04 0443CST 04 0448CST 04 0531CST 04 0523CST 04 0538CST 04 0548CST 04 0600CST 04 0550CST				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 0 4 0 3 0 3 0 3 0 4 0 3 0 3 0 4 0 3 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TSTM Wind (55) TSTM Wind TSTM Wind (61) TSTM Wind (61) TSTM Wind (61) TSTM Wind TSTM Wind (61) TSTM Wind (69) TSTM Wind TSTM Wind (65)	
A series of thunderstorms produced winds of 60 to 80 mph as they crossed Southwest Kansas. A gust was measured at 70 mph at the Dodge City Airport. Considerable damage was done to buildings and planes at the Cimarron Airport. Nine cars of a freight train were knocked from the track 5 miles east of Minneola. The roof was torn from a downtown building at Kinsley.									
Gove Co, Grainfield	04 0430CST				0 1	5 0	0 0	Lightning	Lightning struck a home in Grainfield. A boy suffered a minor burn when a light fixture fell on his bed. The interior of the home was completely destroyed by the resulting fire.
Reno Co, Turon	04 0600CST				0 0	4 0	0 0	TSTM Wind (61)	Thunderstorm winds estimated at 70 mph caused widespread tree and roof damage at Turon.
Kingman Co, Kingman Harper Co, Anthony Reno Co, Pretty Prairie Sumner Co, Wellington Sedgwick Co: Clearwater Valley Center Harvey Co, Newton Cowley Co, Winfield Butler Co, near Elbing Marion Co, SW Florence	04 0700CST 04 0700CST 04 0710CST 04 0740CST 04 0735CST 04 0740CST 04 0800CST 04 0820CST 04 0830CST 04 0845CST				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 0 4 0 4 0 4 0 3 0 4 0 4 0 3 0 3 0 3 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TSTM Wind (61) TSTM Wind (61) TSTM Wind (61) TSTM Wind (65) TSTM Wind (71) TSTM Wind TSTM Wind (75) TSTM Wind (59) TSTM Wind (61) TSTM Wind (61)	

## KANSAS

A line of thunderstorms formed between Hutchinson and Anthony and produced winds of 65 to near 90 mph as it moved east toward Marion and Winfield. Winds were measured at 86 mph at Newton, 82 mph at Clearwater and 68 mph at Winfield.									
Widespread minor damage was done, but some power poles were downed and roofs were damaged in a few spots. Most of the damage was concentrated north of Wichita to Newton.									
Sherman Co: Goodland Airport SE Goodland 15E Goodland	04 2207CST 04 2212CST 04 2220CST				0 0 0 0 0 0	1 3 0 0 0 0	3 0 0 0 0 0	TSTM Wind (52) Funnel Funnel	
A thunderstorm wind gust was measured at 60mph at the Goodland Airport. Two funnels were sighted east of Goodland, but neither touched down.									
Finney Co, 9E&13S Garden City Gray Co: 7N Ingalls 5S Cimarron Hodgeman Co: 8W Jetmore Jetmore Ford Co: Dodge City Bucklin Pawnee Co: Rozel Larned Barton Co, Great Bend Arpt. Kiowa Co: Mullinville Greensburg Clark Co, 14N Ashland Meade Co, Meade Edwards Co, Kinsley	05 0039CST 05 0131CST 05 0151CST 05 0140CST 05 0205CST 05 0153CST 05 0310CST 05 0224CST 05 0250CST 05 0230CST 05 0302CST 05 0310CST 05 0316CST 05 0401CST 05 0700CST				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 4 3 2 0 2 0 2 0 2 0 2 0 5 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TSTM Wind (50) TSTM Wind (50) TSTM Wind (50) TSTM Wind (50) TSTM Wind (52) TSTM Wind (50) TSTM Wind (50) TSTM Wind (52) TSTM Wind (52) TSTM Wind (65) TSTM Wind (50) TSTM Wind (50) TSTM Wind (50) TSTM Wind (50) Flash Flood	
A line of thunderstorms produced wind gusts of 50 to 75 mph as it moved from Garden City toward Dodge City, Great Bend and Ashland. Winds estimated at 75 mph did a good deal of damage to buildings and the hangar at the airport in Great Bend, and south and east of the airport grounds. A nearby farm had several large grain bins blow over, and some large tree branches fell and damaged cars. Other damage was mainly confined to broken limbs on trees and a few downed power lines.									
Runoff from heavy rains forced Coon Creek out of its banks north of Kinsley. The flood waters reached into 17 homes.									
Sumner Co: Conway Springs Belle Plaine Mulvane Sedgwick Co: Clearwater Southeast Wichita Boeing Plant, SE Wichita McConnell AFB NE Wichita Butler Co: Andover Augusta 25E Rose Hill Towanda El Dorado El Dorado Lake Douglass Rosalia Cowley Co, Winfield Greenwood Co: Nadison Virgil Woodson Co, Yates Center Allen Co: Humboldt Moran	05 0510CST 05 0525CST 05 0530CST 05 0515CST 05 0520CST 05 0523CST 05 0523CST 05 0525CST 05 0535CST 05 0535CST 05 0535CST 05 0540CST 05 0545CST 05 0545CST 05 0545CST 05 0605CST 05 0548CST 05 0630CST 05 0630CST 05 0645CST 05 0720CST 05 0730CST	1.5 200	200		0 0 0 0 0 0 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 0 4 0 5 0 3 0 5 0 4 0 3 0 5 0 4 0 5 0 5 0 4 0 5 0 6 0 5 0 3 0 4 0 3 0 3 0 4 0 3 0 4 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TSTM Wind (52) TSTM Wind TSTM Wind TSTM Wind (70) Tornado (F1) TSTM Wind (87) TSTM Wind (69) TSTM Wind TSTM Wind TSTM Wind TSTM Wind Tornado (F1) TSTM Wind TSTM Wind TSTM Wind Tornado (F2) TSTM Wind TSTM Wind (68) TSTM Wind TSTM Wind TSTM Wind TSTM Wind TSTM Wind	
Severe thunderstorms developed over Wichita and produced damaging winds as they moved and spread to the east and southeast toward El Dorado and Winfield. The storms weakened somewhat as they then continued east through Greenwood, Woodson and Allen counties. The storms in Greenwood County then raced northeast toward Kansas City and became stronger again. (See next entry for details on regeneration)									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

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	

## KANSAS

The strongest part of the storm produced winds of 80 to 100 mph as it crossed the south part of Wichita and moved through Butler County. It also produced three tornadoes that were each on the ground a short time.

The first tornado caused major damage from 42nd to 47th Streets South, between Meridian and the Butler County Line in Southeast Wichita. Thirty mobile homes were heavily damaged, and roofs were blown off 3 houses and a grade school. Trees were knocked atop houses and vehicles. Two people suffered minor injuries.

The second tornado came to the ground briefly and damaged a dozen homes southeast of Rose Hill.

The third tornado hit in Douglass and destroyed a small commercial complex, including a restaurant, convenience store and small office building. The roof of the office building crashed into a home 20 yards southeast and destroyed the west side of the house and the garage. Six other homes had lesser damage. Straight-line winds also damaged trees and roofs throughout the northwest side of Douglass.

The storm was quite unusual in that a tornado-like vortex or strong updraft formed near the leading edge of the storm. The vortex remained aloft but was surrounded by straight winds of 80 to 100 mph which caused most of the damage.

Roof, tree and power pole damage was scattered throughout the storm's path. The northeast part of Wichita from 13th to 16th Street North and from Grove to Hillside had major damage, and the entire roof was taken from one home. Three mobile homes had major damage at Mulvane. Damage was also reported at Andover, Augusta, Belle Plaine, Winfield, El Dorado and Rosalia.

Winds of 80 to 100 mph created a 3 to 5 foot storm surge on El Dorado Lake. Campgrounds on the east side of the lake were hit hard, with 127 camping trailers overturned or heavily damaged. Twenty-five people suffered minor injuries. A large floating dock was torn from its moorings resulting in a great deal of damage to the dock and scores of boats.

Damaging winds continued east toward Iola. Power poles were downed from west of Madison to Virgil. Part of the roof was taken from the City Hall in Yates Center and it hit an apartment house across the street. Major roof damage was done to several homes in Humboldt, and a barn was destroyed at Moran.

Wind measurements included: 60 mph at the Emporia Airport, 57 mph at Washburn University in Topeka, and 73 mph at Kansas University in Lawrence. Downburst gusts likely reached 100 mph in a few spots.

Lyon Co.  
Emporia Airport  
Coffey Co.  
SE Lebo  
Osage Co.  
Lake Pomona  
Franklin Co.  
Homewood to  
4E Ottawa  
Shawnee Co.  
2N Berryton  
Topeka  
Douglas Co.  
3NW Baldwin City  
Lawrence  
Johnson Co.  
2SW Gardner  
2S DeSoto  
4W Olathe  
Leawood  
Wyandotte Co.  
Turner  
Argentine  
Leavenworth Co.  
Tonganoxie

## KANSAS

Most damage was done to trees and power lines, but there were several isolated areas that were hit harder. The worst damage occurred from southwest of Ottawa near Homewood through the south side of Ottawa to Gardner. A home near Homewood lost its roof and east wall. The canopy roof was taken from a mobile home northwest of Homewood. A concrete block wall was blown out of a service station on Interstate 35 south of Ottawa. Roofs were taken from two buildings on the east side of Ottawa and from another 4 miles east of town. A 2500 square foot barn southwest of Gardner was also destroyed.

Other serious damage was done in small and scattered locations. Roofs were taken from two homes south of Topeka near Berryton. Debris was scattered across a two block area to the northwest. A barn and machine shed were destroyed northwest of Baldwin City. Barns were torn apart near Lebo and Turner.

Clay Co:  
Oak Hill  
Longford  
Ottawa Co:  
3E Delphos  
3W Delphos  
Dickinson Co.  
Abilene  
Lincoln Co:  
Lincoln  
Beverly  
Lincoln  
Lincoln  
Saline Co.  
5NE Salina

Shawnee Co:  
1.5NE Dover  
1.5NE Dover

Lane Co:  
5W&3S Dighton  
4W&6N Dighton  
Ness Co.  
1W Beeler  
Scott Co.  
9N&2E Scott City  
Wichita Co.  
Leoti  
Logan Co.  
Page City

Hamilton Co.  
8N Syracuse

Phillips Co.  
12S Phillipsburg

Rice Co:  
1NE Lyons  
3NE Sterling

Osborne Co.  
Natoma

07 1830CST			0	0	3	3	Hail (.75)	
07 1955CST			0	0	3	3	Hail (.75)	
07 1950CST			0	0	3	3	Hail (1.75)	
07 2030CST			0	0	3	3	Hail (1.75)	
07 1950CST			0	0	3	3	Hail (1.0)	
07 2048CST			0	0	2	2	TSTM Wind (52)	
07 2215CST			0	0	2	2	Hail (.75)	
07 2224CST			0	0	2	2	Hail (.75)	
07 2100CST			0	0	2	2	Hail (.75)	
A large area of severe thunderstorms developed north of Abilene and spread west. Large hail, gusty winds and heavy rainfall damaged crops and broke a few windows.								
07 1900CST	?	?	0	0	0	0	Tornado (F0)	
07 1900CST			0	0	2	0	Hail (1.5)	
A thunderstorm dropped large hail and spawned a brief tornado near Dover. A photographer on the scene said the tornado was on the ground for no more than 2 minutes. The tornado set down in an open field and did no damage.								
07 1945CST	1	50	0	0	4	0	Tornado (F0)	
07 2140CST			0	0	5	0	TSTM Wind	
07 2108CST			0	0	3	4	Hail (1.0)	
07 2120CST	1	50	0	0	5	2	Tornado (F1)	
07 2140CST			0	0	3	4	Hail (1.0)	
07 2247CST			0	0	3	3	TSTM Wind (61)	
Thunderstorms occasionally dropped large hail and produced damaging winds as they crossed West-Central Kansas. A tornado tore up some outbuildings at an unoccupied farm southwest of Dighton. Another twister destroyed a barn and grain bin at a farm northeast of Scott City. Wind also tore apart a barn and some sheds, and dropped a large elm tree on the house at a farm northwest of Dighton.								
07 2143CST			0	0	3	0	TSTM Wind (56)	
Thunderstorm winds estimated at 65mph struck Syracuse. Only minor damage resulted.								
07 2303CST	1	50	0	0	3	2	Tornado (F0)	
A tornado came to the ground briefly near the Rooks-Phillips county line south of Phillipsburg. Power lines were knocked down, but no other damage resulted.								
08 0040CST			0	0	4	2	TSTM Wind	
08 0045CST			0	0	4	2	TSTM Wind	
Thunderstorm outflow winds knocked down a microwave tower northeast of Lyons and blew over several circle irrigation systems northeast of Sterling.								
08 0300CST			0	0	4	4	Flash Flood	
Runoff from rainfall of 2 to 5 inches across southern Osborne County flooded streets in Natoma. Many basements were also filled with water.								

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

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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	

## KANSAS

Sumner Co:  
 Mayfield 08 1720CST 0 0 2 3 Hail (1.75)  
 Mulvane 08 1830CST 0 0 0 0 Hail (.75)  
 Belle Plaine 08 1832CST 0 0 3 0 TSTM Wind (61)  
 Sedgwick Co,  
 SE Wichita 08 1845CST 0 0 2 0 TSTM Wind (52)  
 Butler Co,  
 Augusta 08 1859CST 0 0 3 0 Hail (1.75)

A series of isolated severe thunderstorms dropped large hail and produced winds of 60 to 70 mph as they moved northeast from Wellington toward El Dorado.

Marshall Co,  
 2W Oketo 09 1415CST 0 0 4 0 TSTM Wind  
 An isolated thunderstorm downburst wind tore apart a metal shed and damaged a combine and trailer at a farm near Oketo.

Finney Co,  
 Garden City Arpt- 11 2245CST 0 0 2 0 TSTM Wind (55)  
 Gray Co,  
 Cimarron 11 2256CST 0 0 2 0 TSTM Wind (55)  
 Haskell Co,  
 Sublette 11 2317CST 0 0 2 0 TSTM Wind (56)  
 Ford Co,  
 Bucklin 12 0012CST 0 0 3 0 TSTM Wind (52)  
 Kiowa Co:  
 Greensburg 12 0041CST 0 0 2 0 TSTM Wind (55)  
 2E Greensburg 12 0043CST 0 0 2 3 TSTM Wind (50),  
 Hail (1.0)

Edwards Co,  
 Kinsley 12 0043CST 0 0 2 0 TSTM Wind (55)  
 Pawnee Co,  
 Larned 12 0056CST 0 0 2 0 TSTM Wind (55)  
 Clark Co,  
 10 S Bucklin 12 0103CST 0 0 2 0 TSTM Wind (55)  
 Comanche Co,  
 7N Protection 12 0118CST 0 0 2 0 TSTM Wind (55)  
 Thunderstorm winds of 50 to 65 mph caused minor damage as the storms moved from Garden City toward Larned and Coldwater.

Rice Co:  
 Chase 12 0152CST 0 0 4 2 TSTM Wind (65)  
 Lyons 12 0154CST 0 0 4 2 TSTM Wind (52)  
 Saline Co:  
 SW Salina 12 0215CST 0 7 4 0 TSTM Wind  
 Salina Airport 12 0235CST 0 0 6 3 TSTM Wind (80)  
 Salina Airport 12 0250CST 0 0 6 3 TSTM Wind (85)  
 2W Solomon 12 0320CST 0 0 4 3 TSTM Wind (70)

Cloud Co:  
 Concordia Airport 12 0232CST 0 0 4 2 TSTM Wind (56)  
 SW Clifton 12 0320CST 0 0 4 2 TSTM Wind (56)  
 Clay Co:  
 Clay Center 12 0320CST 0 0 4 2 TSTM Wind (56)  
 Fact 12 0320CST 0 0 4 2 TSTM Wind (56)  
 1S Clifton 12 0320CST 0 0 4 2 TSTM Wind (56)

Dickinson Co:  
 1E Solomon 12 0320CST 0 0 4 3 TSTM Wind (70)  
 Abilene Airport 12 0400CST 0 0 4 2 TSTM Wind (56)  
 Washington Co:  
 Clifton 12 0320CST 0 0 4 2 TSTM Wind (56)  
 Barnes 12 0400CST 0 0 4 2 TSTM Wind (56)  
 1N Parallel 12 0400CST 0 0 4 2 TSTM Wind (56)

Geary Co,  
 Junction City 12 0340CST 0 0 3 0 TSTM Wind (52)  
 Riley Co,  
 2S Parallel 12 0400CST 0 0 3 0 TSTM Wind (52)  
 Marshall Co:  
 Blue Rapids 12 0400CST 0 0 3 3 TSTM Wind (61)  
 8S Waterville 12 0400CST 0 0 4 3 TSTM Wind

Wabaunsee Co,  
 Alma 12 0410CST 0 0 2 0 TSTM Wind (52)  
 Pottawatomie Co:  
 Westmoreland 12 0415CST 0 0 2 0 TSTM Wind (52)  
 St. Marys 12 0415CST 0 0 2 0 TSTM Wind (52)  
 Osage Co,  
 2N Osage City 12 0430CST 0 1 0 0 Lightning  
 Douglas Co:  
 2S Lecompton 12 0500CST 0 0 2 0 TSTM Wind (52)  
 6S Clinton Lake 12 0530CST 0 0 2 0 TSTM Wind (52)  
 Clinton Lake 12 0532CST 0 0 3 0 TSTM Wind (61)

A large severe thunderstorm formed west of Lyons. It moved northeast to Salina, then turned east toward Abilene. At about the same time that storm entered southwest Saline County, another developed just west of Concordia and moved east. Storms then filled in between the two and formed a line that moved east to a line from Marysville to near Lawrence before they weakened. The storms produced damaging winds in scattered areas along the path of travel. A wind gust was measured at 98 mph at the Salina Airport.

Four hundred National Guard troops camped at the Smoky Hill Range west of Salina had their tents and equipment damaged. Seven of the guardsmen suffered minor injuries. The south side of Salina was hit hardest. Parts of the roofs of two shopping malls

## KANSAS

were blown off and a number of houses had considerable damage. Damage in Salina was estimated at \$1.25 million. The wind also damaged several barns and other buildings in southern parts of Washington and Marshall counties.

A man was injured when lightning struck near him north of Osage City. The man was an ambulance attendant and was loading a person injured in a car wreck. He was not hit directly by the stroke but was injured when he was thrown by its force. He was kept overnight in the hospital for observation.

Shawnee Co:  
 Topeka 12 0235CST 0 0 3 0 Hail (1.0)  
 3SE Topeka 12 0240CST 0 0 2 0 TSTM Wind (52)  
 A thunderstorm dropped inch diameter hailstones and produced winds estimated at 60 mph as it crossed the southeast side of the city.

Sumner Co,  
 3N Belle Plaine 12 1730CST 0 0 3 0 TSTM Wind  
 Sedgwick Co,  
 Derby 12 1734CST 0 0 0 0 Hail (.75)  
 A thunderstorm dropped 3/4 inch hail at Derby and produced winds that caused tree damage north of Belle Plaine.

Sumner Co,  
 Argonia 12 1753CST 0 0 3 3 Hail (1.5)  
 A thunderstorm dropped hail the size of quarters for a short time at Argonia.

Sedgwick Co,  
 McConnell AFB 12 1900CST 0 0 3 2 Hail (1.0)  
 Inch diameter hailstones fell briefly in southeast Wichita around McConnell Air Force Base.

Grant Co,  
 4W Ulysses 14 1414CST 0 0 3 4 Hail (1.75)  
 Stevens Co,  
 2S Feterita 14 1420CST 0 0 3 3 Hail (1.0)  
 Ford Co:  
 2S Howell 14 1422CST 0 0 3 3 Hail (.75)  
 2E Ensign 14 1436CST 0 0 3 3 Hail (1.0)  
 Gray Co,  
 5S Ensign 14 1506CST 0 0 3 4 Hail (1.0),  
 TSTM Wind (52)

Meade Co:  
 4N Fowler 14 1525CST 0 0 3 3 Hail (1.75)  
 Fowler 14 1535CST 0 0 3 3 Hail (.75),  
 TSTM Wind (52)

A line of thunderstorms dropped large hail in some spots as it moved northeast from Ulysses and Hugoton toward Dodge City. A good deal of crop damage was done, and some vehicles were also dented.

Leavenworth Co,  
 3W Tonganoxie 17 1730CST 0 0 3 0 TSTM Wind  
 Thunderstorm winds blew off part of a carport type roof over a mobile home west of Tonganoxie. Two cars were damaged when the roof hit them.

Scott Co,  
 10S3E Scott City 17 1814CST 1 50 0 0 0 0 Tornado (F0)  
 A tornado touched down briefly southeast of Scott City. No damage was done.

### SPECIAL HAIL SUMMARY

Kansas-Oklahoma Hail Loss Service reports indicate hail was especially damaging to crops in the listed counties on the following dates:

- 01 Scott, Sheridan, Thomas
- 02 Sheridan
- 03 Wallace
- 04 Finney, Gray, Thomas
- 05 Gray, Haskell, Seward
- 09 Stanton
- 10 Pratt
- 11 Finney, Gray
- 14 Ford, Grant, Gray, Stanton
- 19 Gray, Haskell

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>15 KENTUCKY</b>									
Laurel County	03	1715 EST			0	4	0	0	Lightning
									A forty-nine year old woman, her 13 year old daughter, her 11 year old granddaughter, all from Keary; and an 11 year old boy of Hazard, were getting off of a boat and stepping onto the bank of Laurel Lake inside the Holly Bay camping area, adjacent to the boat ramp, when lightning struck a nearby tree. The lightning ran into the ground, along the bank, and traveled up through their bodies. All four people suffered minor injuries from shock and burns.
Ballard County	04	1500 CST			0	1	4	0	Thunderstorm Winds
									Sixty mile per hour winds downed trees, damaged several trailers, collapsed barns, and damaged vehicles near Slater and Gage. One trailer home overturned with a 20 year old woman inside, injuring her slightly, near Slater. The strong winds caused high waves on the Mississippi and Ohio Rivers, presenting dangers to boaters. A new home under construction on Highway 60 near Future City was blown down. Power and telephone lines were sporadically down throughout the area.
Graves County	04	1510 CST			0	0	3	0	Thunderstorm Winds
									Fifty to sixty MPH winds were reported in Mayfield. Some trees were blown down and minor barn damage was reported.
Breckinridge County	04	1715 CST			0	0	3	0	Thunderstorm Winds
									Trees and power lines were blown down, and some damage to buildings and homes was reported near Hardinsburg.
Ballard County	05	1400 CST			0	1	4	0	Thunderstorm Winds
									A mobile home was blown over in LaCenter when 60 MPH winds blew through the small community. The mobile home when blown over, rolled onto another neighboring resident's car. One woman was in the trailer as it rolled over and was slightly injured.
McCracken County	05	1410 CST			0	0	3	0	Thunderstorm Winds
									59 MPH winds were recorded at the National Weather Service office in West Paducah, along with 1/4 inch in diameter hail. Large tree limbs were blown down on US 60, 5 miles west of Paducah. Five Paducah residents reported fallen trees damaging their cars or homes. A child was trapped in a car by fallen power lines. Minor structure damage to a few buildings was reported.
Graves County	05	1415 CST			0	0	2	0	Thunderstorm Winds
									Trees were blown down in Mayfield.
Livingston County	05	1440 CST			0	1	4	0	Thunderstorm Winds
									A 52 year old woman was severely injured when a two to three foot in diameter tree fell on the top of her moving car near Livingston Chapel Church. The car was heading west on KY 70, 3 miles east of Smithland.
Caldwell County	05	1500 CST			0	1	3	0	Thunderstorm Winds
									60 to 70 MPH winds were reported in Princeton. Trees were blown down and uprooted, damaging homes, buildings, and vehicles. Some trees fell on power lines, downing them. A plate glass window blew out of a fast food restaurant, resulting in one injury.
Lyon County	05	1500 CST			0	0	3	0	Thunderstorm Winds
									Trees were uprooted and blown down, damaging several buildings in Eddyville.
Hopkins County	05	1500-1600 CST			0	0	3	0	Thunderstorm Winds
									60 MPH winds were reported at the airport in Anton. Trees were blown down throughout the county, some landing in power lines. The most concentrated damage was in the communities of Crofton, White Plains, Nebo, and Madisonville.
Union County	05	1505 CST			0	0	3	0	Thunderstorm Winds
									Trees were blown down near Waverly along Shorty Long Road. A trailer was damaged near Morganfield. There were reports of downed power lines, uprooted trees and damages to dwellings throughout the county, with the hardest hit area near Sullivan. Several vehicles were damaged as trees fell on them.
<b>KENTUCKY</b>									
Webster County	05	1515 CST			0	0	4	0	Thunderstorm Winds
									65 MPH winds were reported in Providence. Extensive damage was reported near Providence where four out-buildings were destroyed and extensive damage was done to a farmhouse and a trailer. Other structure damage was reported near Clay.
Hopkins County	05	1524 CST			0	0	2	0	Thunderstorm Winds
									Large trees were blown down in Madisonville and Dawson Springs where 60 MPH winds were reported.
Christian County	05	1530 CST			0	0	3	0	Thunderstorm Winds
									Trees were blown down, roofs were damaged, and portable signs destroyed as 60 to 70 MPH winds blew through southern Christian County.
Hancock County	05	1556 CST			0	0	3	0	Thunderstorm Winds
									Many large trees and numerous power lines blew down throughout the county. 83 MPH winds were clocked at Havesville. Twenty major roads were blocked by fallen trees.
Crittenden County	05	1558 CST			0	0	2	0	Thunderstorm Winds
									Trees were blown down across US 60 near Marion.
McClellan County	05	1605 CST			0	0	3	3	Thunderstorm Winds
									Trees were blown down. Crops, barns, and roofs were damaged throughout the county, but especially near Calhoun.
Daviess County	05	1605 CST			0	0	3	0	Thunderstorm Winds
									Many large trees were blown down across western Daviess County, some blocking traffic on Highway 60.
Ohio County	05	1606 CST			0	0	3	0	Thunderstorm Winds
									Trees and power lines were blown down in Beaver Dam.
Muhlenberg County	05	1608 CST			0	0	0	0	Funnel Cloud
									A funnel cloud was sighted on Hillside Road near Powderly crossing over US 62.
Muhlenberg County	05	1610 CST			0	0	4	0	Thunderstorm Winds
									Winds gusting to 75 MPH uprooted trees and blew down power lines in the county. Two mobile homes overturned near Powderly.
Breckinridge County	05	1610 CST			0	0	3	0	Thunderstorm Winds
									Trees and power lines were blown down in Hardinsburg.
Daviess County	05	1612 CST			0	0	3	0	Thunderstorm Winds
									Owensboro reported trees and power lines blown down in the city.
Grayson County	05	1614 CST			0	0	3	0	Thunderstorm Winds
									Trees and power lines were blown down south of Leitchfield. Damage to a house and porch was reported.
Grayson County	05	1616 CST			0	0	0	0	Funnel Cloud
									A funnel cloud was spotted near Anneta.
Barren County	05	1620 CST			0	0	3	0	Thunderstorm Winds
									Trees blew down resulting in numerous power outages in Glasgow.
Hardin County	05	1620 CST			0	0	3	0	Thunderstorm Winds
									60 MPH winds were recorded in Elizabethtown where trees and power lines fell, some of which blocked major roads.
Warren County	05	1620 CST			0	0	2	0	Thunderstorm Winds
									Trees and power lines fell in Bowling Green. Several trees blocked roads. Western Kentucky University Campus recorded wind speeds of 42 MPH.
Meade County	05	1625 CST			0	0	4	0	Thunderstorm Winds
									Winds that averaged from 60 to 79 MPH blew over one mobile home and damaged a house on Highway 29 near Midway. Extreme tree damage was reported in the Fern Creek Area and Otter Creek Park.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

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PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED DAMAGE	CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS		
<b>KENTUCKY</b>										
Edmonson County	05	1625 CST			0	0	3	0	Thunderstorm Winds	50 to 60 MPH winds were reported in Brownsville. Trees blew down. Electrical power was interrupted and minor property damage was reported.
Meade County	05	1630-1640 CST			0	0	4	0	Thunderstorm Winds	60 MPH winds were recorded in Brandenburg. Trees blew down and were uprooted, power lines fell, and electrical and telephone power poles snapped. A porch blew off of the funeral home in Brandenburg and damaged two funeral home coaches. Roofs were damaged on homes and lifted off of out-buildings. Trees also blocked major roads near Flaherty.
Hart County	05	1635 CST			0	0	4	0	Thunderstorm Winds	Several buildings were damaged or destroyed over the eastern portion of Hart County near Munfordville. A 20 foot by 70 foot silo was leveled. A 32 X 80 foot equipment shed was destroyed. A roof was torn from a house and a milk barn badly damaged. Another tobacco barn was destroyed two miles south of Hardyville.
Nelson County	05	1650 CST			0	0	4	0	Thunderstorm Winds	Trees and power lines fell in Bardston where 50 to 60 MPH winds were recorded. The High Grove and Bloomfield areas were the hardest hit in the county. One dairy farm located between Bardston and Bloomfield suffered extreme damage. There, out-buildings, sheds, and roofs were either badly damaged or destroyed.
Bullitt County	05	1659 CST			0	0	3	0	Thunderstorm Winds	Trees and power lines blew down in Shepherdsville.
LaRue County	05	1700 CST			0	0	4	0	Thunderstorm Winds	Trees and power lines fell throughout the county. The most concentrated damage was reported east and northeast of Hodgenville. Substantial tree damage was done to the Lincoln Boyhood Home near New Haven. The roof of the Home's pavilion was dented.
Jefferson County	05	1700 CST			0	0	5	0	Thunderstorm Winds	Eastern Jefferson County reported widespread tree and power line damage, especially along Brownsboro Road and Hurstborne Lane, and in the Anchorage area. Trees fell on many houses. Two homes that were under construction were flattened. Louisville Gas and Electric Company reported 80,000 customers lost power. They recorded this storm the most severe, damage-wise since the 1974 tornado that went through Louisville. Trees and large limbs blocked streets and sidewalks in at least 325 locations across Louisville. Fallen trees did substantial damage to roofs of houses across the county. Cars and trucks were destroyed when falling trees landed on them. Sixty to seventy MPH winds were common across the county.
Taylor County	05	1715 CST			0	0	3	0	Thunderstorm Winds	65 to 70 MPH winds were recorded in Finley. Trees and numerous power lines fell down.
Jefferson County	05	1718 CST			0	0	2	0	Thunderstorm Winds	A large plate-glass window blew out of a fast-food restaurant at 5th and Liberty streets in downtown Louisville.
Jessamine County	05	1720 CST			0	0	3	0	Thunderstorm Winds	Major wind damage to trees, buildings, television antennae, homes, and lawn accessories was reported throughout the county. Many small items were wind-swept, never to be recovered. Several trees were uprooted in Nicholasville.
Taylor County	05	1725 CST			0	0	0	0	Funnel Cloud	A funnel cloud was sighted near Campbellsville.
Oldham County	05	1725 CST			0	0	4	0	Thunderstorm Winds	Trees and power lines were blown down, blocking roads from Crestwood along Highway 22 to the Jefferson County line, and from Crestwood to Buckner, along Highway 146. Numerous large trees fell in Pewee Valley. Two-thirds of a brick wall collapsed at the Days Inn Motel in LaGrange, crushing a van.
<b>KENTUCKY</b>										
Shelby County	05	1730 CST			0	0	3	0	Thunderstorm Winds	The Kentucky State Police reported trees down throughout Shelby County, many of which were blocking roadways.
Metcalfe County	05	1730 CST			0	0	4	0	Thunderstorm Winds	Trees blew down 2.5 miles northeast of Edmonton. One trailer overturned.
Marion County	05	1730 CST			0	0	3	0	Thunderstorm Winds	Trees were blown down, blocking roads near Lebanon.
Casey County	05	1730 CST			0	0	0	4	Hail(1.75)	Hail, the size of golfballs, fell along Woodrum Ridge Road near Liberty, damaging the tobacco crop.
Washington County	05	1735 CST			0	0	4	0	Thunderstorm Winds	Large limbs and fallen trees blocked roads in Springfield. A 60 X 30 foot building was demolished by the wind, scattering its debris over an acre of ground. A tractor was blown off of its landing 300-400 feet from its original spot. A lumber pile was splintered to kindling.
Henry County	05	1740 CST			0	0	3	0	Thunderstorm Winds	58 MPH winds blew down trees and power lines in Campbellsburg.
Cumberland County	05	1742 CST			0	0	0	0	Funnel Cloud	A funnel cloud was sighted near Burkesville.
Cumberland County	05	1743 CST			0	0	0	0	Funnel Cloud	A funnel cloud was reported near Kettle.
Russell County	05	1745 CST			0	0	3	0	Thunderstorm Winds	Trees and power lines blew down in Russel Springs blocking roads and sidewalks. One trailer was destroyed in Pine Crest Campground, and another trailer near the city limits of Russel Springs was severely damaged.
Anderson County	05	1750 CST			0	0	3	0	Thunderstorm Winds	Large trees fell across the county as winds gusted to 60 MPH.
Boyle County	05	1750-1800 CST			0	0	3	0	Thunderstorm Winds	Numerous large trees were blown down and uprooted across Boyle County. A barn, used to store farm equipment, was blown down on Salt River Road. One trailer was reportedly damaged. Large tree limbs caused power lines to fall resulting in electrical outages.
Franklin County	05	1755 CST			0	0	3	0	Thunderstorm Winds	Trees were blown down in the southern and western portions of Franklin County blocking roads in the Evergreen area.
Mercer County	05	1755 CST			0	0	3	0	Thunderstorm Winds	Trees and power lines were reportedly blown down throughout the county, most numerous in the Harrodsburg area. A garage was destroyed at Calvary Lane.
Woodford County	05	1800 CST			0	0	4	0	Thunderstorm Winds	Trees were blown down along Highway 33 and Old Frankfort Pike, south and north of Versailles. One house was severely damaged when a power line falling on the home caused the structure to catch fire.
Adair County	05	1800 CST			0	0	3	0	Thunderstorm Winds	Trees and power lines were blown down in Columbia.
Cumberland County	05	1800 CST			0	0	3	0	Thunderstorm Winds	Trees and large limbs were blown down in Burkesville.
Wayne County	05	1800 CST			0	0	3	0	Thunderstorm Winds	Trees and power lines fell throughout the county, blocking many major roads.

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					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	

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

— KENTUCKY											
Clinton County	05	1805 CST			0	0	3	0			Thunderstorm Winds
Large trees and power lines blew down in Albany blocking sidewalks and streets.											
Pulaski County	05	1812 CST			0	0	3	0			Thunderstorm Winds
55 to 60 MPH winds were clocked across Somerset. Numerous trees and power lines fell across the county. A fireworks stand at Somerset toppled over.											
Garrard County	05	1815 CST			0	1	3	0			Thunderstorm Winds
A Paint Lick farmer was picked up and thrown to the ground during strong winds as he was trying to round up cattle. As he was forced to the ground, he was able to look up and see tree branches, limbs, and pieces of tin roofing fly over his head. He was only injured slightly. The area between Paint Lick and Cartersville suffered extensive tree and power line damage. Many downed trees blocked roads.											
Lincoln County	05	1817 CST			0	0	3	0			Thunderstorm Winds
Downed trees and power lines resulted in widespread power outages in the McKinney area.											
Caldwell County	06	1500 CST			0	0	3	0			Thunderstorm Winds
Trees blew down on houses, resulting in thousands of dollars worth of property damage in Princeton.											
Ohio County	06	1505 CST			0	0	2	2			Hail (1.00)
Hail, one inch in diameter, fell in Fordsville.											
Henderson County	06	1515 CST			0	0	2	0			Thunderstorm Winds
Trees and power lines blew down, blocking streets in Henderson.											
Jefferson County	06	1549-1605 CST			0	0	4	0			Thunderstorm Winds
72 MPH winds were recorded at the National Weather Service Forecast Office in Louisville at 1549 CST. Butler Aviation reported a triple-chalked plane moved by the wind gusts. A 41-foot cruiser boat was overturned in dry dock near Standiford Field Airport. Tree and power line damage was extensive across the county, especially in eastern Jefferson County near Anchorage. Roads were blocked by the fallen trees and power lines.											
Jefferson County	06	1550 CST			0	0	0	0			Funnel Cloud
A funnel cloud was sighted two miles west of the Weather Office in Louisville near Crittenden Drive.											
Oldham County	06	1600 CST			0	0	4	0			Thunderstorm Winds
Large trees blew down over the southern one-half of Oldham County. Fifty percent of the county was without power. A hotel breezeway was blown onto a car.											
Trees were ripped down, power lines snapped, and part of a brick wall sheared off of a motel in LaGrange. Downed trees blocked major streets. Power lines made streets impassable. Vehicle damage included four cars crushed by falling trees on Maple and Birch Avenue.											
Trimble County	06	1600 CST			0	0	3	0			Thunderstorm Winds
Trees and power lines blew down in Milton. The storm forced the closing of the Wises Landing Power Plant.											
Jefferson County	06	1600 CST			0	1	3	0			Thunderstorm Winds
Mature trees fell, power lines dangled, and large limbs and branches carpeted lawns and streets throughout Louisville. One man was injured when a tree fell on him while walking in Edgewood. Many trees fell on vehicles, damaging them. WNAS-TV was off of the air for 17 minutes, and WKY-TV lost power in its studio just before local evening news time.											
Jefferson-Oldham County Line	06	1600 CST			0	0	3	0			Thunderstorm Winds
A trained SKYWARN spotter recorded 69 MPH winds in Prospect. Numerous trees and power lines were blown down.											

— KENTUCKY											
Henry County	06	1615 CST			0	0	3	0			Thunderstorm Winds
Trees and power lines were blown down in Eminence, with many roads blocked.											
Bullitt County	06	1620 CST			0	0	3	0			Thunderstorm Winds
Downed trees knocked out power lines and blocked roads between Shepherdsville and Mt. Washington.											
Scott County	06	1625-1636 CST			0	0	3	0			Thunderstorm Winds
Numerous large trees and power lines were blown down throughout the county, blocking several roadways. Three large pillar columns were knocked down from the entry porch on the White Oak Pike Home.											
Nelson County	06	1630 CST			0	0	3	0			Thunderstorm Winds
Winds gusting to 60 MPH downed trees and power lines throughout the central portion of Nelson County, especially near Bardstown.											
Meade County	06	1630 CST			0	0	3	0			Thunderstorm Winds
79 MPH winds were clocked at Brandenburg causing trees and power lines to fall.											
LaRue County	06	1630 CST			0	0	4	0			Thunderstorm Winds
Large trees were blown down and uprooted across the county. Two barns were blown down and a new roof was ripped off in White City.											
Grant County	06	1630-1730 CST			0	0	3	0			Thunderstorm Winds
A few trees and many large limbs blew down throughout the center of Williamstown. One large limb landed on a house, damaging it. There were scattered electrical power outages reported.											
Franklin County	06	1630-1700 CST			0	0	3	0			Thunderstorm Winds
A few trees and many large limbs blew down in the county. Electrical power outages were widespread as falling trees carried down power lines. A few windows were blown out in Frankfort.											
Spencer County	06	1635 CST			0	0	3	0			Thunderstorm Winds
Trees and power lines were blown down in Taylorsville. A brick chimney blew off of a house and onto the next door neighbor's house. A few barns sustained damage.											
Hardin County	06	1638 CST			0	0	4	0			Thunderstorm Winds
Trees and power lines were reportedly blown down throughout the county, most numerous near Elizabethtown. Winds tore off and flipped the roof off of a drive through window at a bank in Vine Grove.											
Anderson County	06	1645 CST			0	0	4	0			Thunderstorm Winds
77 MPH winds were recorded at Lawrenceburg where numerous trees blew down or were uprooted. Many streets were blocked by storm debris. A tree fell through one house roof near Lawrenceburg.											
Woodford County	06	1645 CST			0	0	3	0			Thunderstorm Winds
High winds uprooted trees which in turn blocked roads and disrupted service to electrical power throughout the county. Some of the trees that fell measured two feet in diameter. Storm-felled trees damaged fences and utility lines and poles.											
Shelby County	06	1648 CST			0	0	4	0			Thunderstorm Winds
Widespread tree damage was reported 10 miles north of Shelbyville. It took three days to restore downed power lines to working order. A metal shed anchored with four feet into the ground was lifted and strewn across a road. A small frame house at Beechridge was completely destroyed when large trees toppled onto it. One house roof was taken off of a home on Mt. Eden Road.											
Mercer County	06	1655-1709 CST			0	0	4	0			Thunderstorm Winds
Trees to three feet in diameter blew down between Shakertown and Harrodsburg, blocking US 68. Several other county roads were blocked by other downed trees. A church steeple was blown down and three barns were severely damaged.											

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					KILLED	INJURED	PROPERTY	CROPS		
<b>KENTUCKY</b>										
Scott County	06	1700 CST			0	0	3	0		Thunderstorm Winds
			50 to 60 MPH winds blew down trees 12-15 inches in diameter throughout the county. Much of the county was without power.							
Fayette County	06	1700 CST			0	1	4	0		Thunderstorm Winds
			56 MPH wind gust was recorded at the National Weather Service Office in Lexington. An enormous amount of large diameter trees were downed in Lexington and throughout Fayette County. Many streets and roads were blocked by storm debris. Trees fell on homes and vehicles, damaging both. A few roofs were blown off buildings in Lexington.							
			A 72 year old man was trapped in an elevator at Ballard Place when the power went out for one hour. He was safely rescued.							
			The Lexington Country Club sustained tree damage and had four fences blown down.							
			One woman spectator was injured at the Lexington Junior League Horse Show when winds knocked down part of the infield boxes.							
			Trees fell on a downtown Lexington gas pump, starting a large fire.							
Boyle County	06	1712 CST			0	0	3	0		Thunderstorm Winds
			50 to 60 MPH winds showered roads with trees and large limbs across Boyle County. A church addition was damaged in Mitchellsburg.							
Clark County	06	1715 CST			0	0	3	0		Thunderstorm Winds
			Very large trees blew down, blocking 8 major roads in Clark County. A roof was blown off of a motel in Winchester, forcing evacuation of some guests.							
Jessamine County	06	1715 CST			0	0	3	0		Thunderstorm Winds
			Large trees fell throughout the county. Numerous roads were blocked. One trailer was blown over.							
Washington County	06	1718 CST			0	0	4	0		Thunderstorm Winds, Lightning
			Large limbs and trees blew down in Springfield. Lightning struck a barn in Willisburg, burning it to the ground.							
Taylor County	06	1720 CST			0	0	3	0		Thunderstorm Winds
			55 to 60 MPH winds blew down trees and power lines one mile north of Saloma. Hail, one-half inch in diameter, was also reported.							
Marion County	06	1725 CST			0	0	4	0		Thunderstorm Winds
			Trees were blown down in and near Calvary. A few trees were uprooted damaging homes. Power outages were extensive. One home had the roof blown off, a porch blew off of another, and aluminum siding was ripped off a third house in northwest Marion County.							
Bourbon County	06	1730-1755 CST			0	0	4	0		Thunderstorm Winds
			Blown down were trees of from 18 inches to two feet in diameter. Numerous roads were blocked. Two automobiles were totalled by falling trees.							
Madison County	06	1730 CST			0	0	3	0		Thunderstorm Winds
			Several large trees were blown down in Richmond blocking streets. Power outages were numerous. Trees were uprooted in Berea. Several vehicles were damaged as trees fell on them.							
Montgomery County	06	1730 CST			0	0	3	0		Thunderstorm Winds
			Large trees, up to three feet in diameter, fell throughout the county. Several roads were blocked and power outages were widespread. Uprooted trees snapped utility poles.							
Garrard County	06	1730-1745 CST			0	0	2	0		Thunderstorm Winds
			Several large trees were blown down in the northern portion of Garrard County.							
<b>KENTUCKY</b>										
Nicholas County	06	1739 CST			0	1	4	0		Thunderstorm Winds
			Winds toppled a trailer and uprooted trees at the intersection of Old Blue Licks Road and US 68 north of Carlisle. One man was injured as the trailer turned over.							
Taylor County	06	1740 CST			0	0	3	0		Thunderstorm Winds
			Trees blew down in Campbellsville as winds gusted to 60 MPH. Hail, one-half inch in diameter, also fell during the storm.							
Estill County	06	1745-1800 CST			0	0	3	0		Thunderstorm Winds
			Numerous large trees blew down in eastern Estill County blocking roads. One half of the entire county was without electrical power.							
Harrison County	06	1745-1800 CST			0	0	3	0		Thunderstorm Winds
			Large trees fell into streets and across homes and yards as winds across Harrison County gusted from 55 to 60 MPH.							
Bath County	06	1745 CST			0	0	2	0		Thunderstorm Winds
			Several large trees fell across the county, blocking roadways.							
Robertson County	06	1800 CST			0	0	3	0		Thunderstorm Winds
			Trees, from two to three feet in diameter, fell across Robertson County as winds gusted from 50 to 60 MPH. Power outages were widespread.							
Adair County	06	1800 CST			0	0	3	0		Thunderstorm Winds
			60 MPH winds were recorded in Columbia as trees and power lines fell across the city.							
Lincoln County	06	1801 CST			0	0	0	0		Funnel Cloud, Thunderstorm Wind
			A funnel cloud was sighted at Hall's Gap. Tree tops were clipped and some large old trees fell in the Greasy Ridge area. Tree limbs blocked area roads.							
Pulaski County	06	1815 CST			0	0	0	0		Funnel Cloud
			A funnel cloud was sighted south of Somerset.							
Casey County	06	1820 CST			0	0	0	0		Funnel Cloud
			A funnel cloud was sighted over Highway 1547 near Liberty.							
Pulaski County	06	1825 CST			0	0	3	0		Thunderstorm Winds
			A boat overturned on Lake Cumberland near Somerset as winds gusted to 60 MPH. Trees were blown down throughout northeast Pulaski County.							
Green County	06	1826 CST			0	0	2	0		Thunderstorm Winds
			Trees were blown down in Greensburg.							
Elliott County	06	1845 CST			0	3	4	0		Thunderstorm Winds
			A severe thunderstorm produced strong winds that rolled a mobile home over injuring three people. One person became pinned under the trailer and was severely hurt. The trailer was located four miles east of Morgan on State Route 173. The injured was one male, 29 years old; one female, 29 years old; and one small female child, 10 years old. The trailer was anchored but straps were broken with the anchors still in place. Fourteen property owners reported damage in that one small area. Some tree tops were broken off.							
Carter County	06	1850 CST			0	0	3	3		Thunderstorm Winds, Heavy Rain
			Trees blew down from Hitchens to Carter City. Roads, bridges, and road tiles were washed out by heavy rains in Carter City, Hitchens, Smith Branch, and Everman's Creek. Three and 1/2 inches of rain fell in less than one hour. The tobacco and pepper crops were also damaged from the heavy rain and wind. Crop damage was estimated at \$5,000.							
Bullitt County	06	2140-2145 CST			0	0	2	0		Thunderstorm Winds
			Trees blew down, blocking Highway 44 southeast of Sheperdsville. Winds were estimated at 40 MPH. Hail, one-quarter inch in diameter, accompanied the storm.							



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					KILLED	INJURED	PROPERTY	CROPS	
<b>KENTUCKY</b>									
Nelson County	06	2153 CST			0	0	0	0	Funnel Cloud
									A funnel cloud was sighted near Bernheim Forrest moving northeast along a tree line.
Spencer County	06	2200 CST			0	0	2	0	Thunderstorm Winds
									Trees were blown down in Taylorsville.
Nelson County	06	2210 CST			0	0	2	0	Thunderstorm Winds
									Power lines and large limbs were blown down in Bardstown.
Russell County	06	2250 CST			0	0	2	0	Thunderstorm Winds
									Trees were reportedly blown down in Eli.
Woodford County	06	2304 CST			0	0	2	0	Thunderstorm Winds
									Large trees were blown down across the southern portion of Woodford County.
Pike County	10	1830-midnight CST			0	0	5	0	Flash Flooding
									Flash flooding was reported by the residents of Calf Creek, in the Turkey Creek area. The hillside behind one home gave away as the wall of water "came roaring down the hollow". Water depths reached four feet in homes. One family lost all of their possessions. The county roads suffered a lot of damage. Several bridges to homes were washed out and the blacktops in the Calf Creek area were washed away by the force of the water. One car was washed away and two more severely damaged.
Jefferson County	11	1156 EST			0	0	0	0	Funnel Cloud
									A funnel cloud was reported by the Flight Service Station Supervisor at Bowman Field Airport.
Boone County	11	1320 EST			0	2	0	0	Lightning
									Location: Turnabout Camp Boat Club. A father and his 5 year old son were sitting on the porch of a neighbor's camper when lightning struck the roof, traveled down a pole, and struck the father and son. The father was knocked off a bench on which both were sitting. He momentarily lost his sight and hearing. The 5 year old boy was knocked to the floor unconscious. He had no pulse or heartbeat when two nurses picnicking nearby were summoned. The nurses immediately began CPR and the small boy was brought back to life. He was transported to Children's Hospital Medical Center in Cincinnati in good condition. Age of the father was unknown.
Grant County	11	1340 EST			0	0	3	0	Thunderstorm Winds
									Several trees fell in Crittenden. Tree limbs fell into power lines, resulting in electrical outages. Some of the headstones at the Crittenden Cemetery were blown over.
Kenton County	11	1505 EST			0	1	2	0	Lightning
									A 42 year old woman of Edgewood received minor injuries when lightning struck the police dispatch communications center in Independence. She was operating the radio equipment at the time of the lightning strike.
Jefferson County	13	1300 EST			0	1	2	0	Thunderstorm Winds
									A few trees were reportedly blown down along with power lines in the city of Louisville. One tree, 1 foot in diameter, fell in Jeffersontown. From 15 to 20 trees were down in Audubon Park. Scattered tree damage was reported in west and southwest Jefferson County. One man was injured at a construction site by wind-blown metal.
Franklin County	13	1343 EST			1	0	0	0	Lightning
									A 55 year old man was struck and killed by lightning while working in a tobacco field. The field was located just north of Owenton Road on US 421, five miles north of Frankfort. Lightning struck his head, and exited through his leg, tearing his pants. Death was immediate.
Pulaski County	13	1430 EST			0	0	2	0	Thunderstorm Winds
									Several trees blew down and 1/4 of a barn roof blew off in the Vaught Ridge section of northwest Pulaski County.
<b>KENTUCKY</b>									
Woodford County	13	1430 EST	Short Narrow		0	0	4	0	Tornado (F0)
									A mini tornado briefly touched down damaging a house near the Buckley Wildlife Refuge. Power lines and trees were blown down and uprooted in the same area. Roads were blocked, and as a result were closed to traffic by local authorities. Minor damage was sustained by one barn.
Trimble County	13	1430 EST			1	0	0	0	Flooding
									A nine year old boy drowned when he fell into Tiber Creek in Milton. The incident was preceded by heavy rain. Approximately 1.3 inches of rain fell in 30 minutes preceding the accident. After the rain ended, the victim and his brother were playing near the creek when the 9 year old boy fell in. The rain-swollen, rushing creek, drifted the victim's body into the Ohio River.
Franklin County	13	1430 EST			0	0	0	0	Funnel Cloud
									A funnel cloud was reported over the state capital of Frankfort.
Fayette County	13	1430 EST			0	0	0	0	Funnel Cloud
									A funnel cloud was sighted 50 to 100 feet above the ground moving down South Drive in southern Lexington.
Fayette County	13	1432 EST			0	0	2	0	Thunderstorm Winds
									Several small trees, limbs, and power lines were blown down in the southern sections of Lexington.
Franklin-Woodford County Line	13	1433 EST			0	0	0	0	Funnel Cloud
									A funnel cloud was videotaped while forming, by a television crew at the Junction of KY 127 and Interstate 64.
Scott County	13	1445 EST			0	0	0	0	Funnel Cloud
									A funnel cloud was sighted near Minerville. Mail, 1/2 inch in diameter, fell at the same location.
Pulaski County	13	1445 EST	Short Narrow		0	0	3	0	Tornado (F0)
									A mini tornado briefly touched down in the Richards Court area near Somerset. The tornado dropped down over a row of houses on Crawford Avenue, felling a number of trees, leveling a garage, and damaging a roof of one home. There was damage also to a barn.
Laurel County	13	1445 EST			0	0	2	0	Thunderstorm Winds
									Trees were blown down 15 miles west of London.
Jefferson County	13	1712-1715 EST			0	0	0	0	Funnel Cloud
									There were several reports of funnel cloud sightings over the western one half of Jefferson County.
Jefferson County	13	1815-1830 EST			0	0	3	0	Heavy Rain
									Flooding from heavy rain during thunderstorms was reported on major main roads within Jefferson County. More than four inches of rain was recorded falling in a 90 minute period. Flooding was most significant on Dixie Highway near Crums Lane, along Preston Highway, in the city of Audubon Park, along Taylorsville Road, at the intersection of Interstate 64 and Cannons Lane, and at Interstate 264 between Breckinridge Lane and Taylorsville Road.
									The basement of the Delta Airline Terminal Building at Standiford Field Airport was reported as flooding from the heavy rainfall.
Spencer County	13	1920 EST			0	0	2	0	Heavy Rain
									Water was flooding over the street of downtown Taylorsville. A service station in Taylorsville reported water flooding its gasoline tanks.
Jefferson County	13	1925 EST			0	0	2	0	Heavy Rain
									Three feet of water was reported in the Metal Sales Truck Company building on Produce Lane in Louisville.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS ESTIMATED DAMAGE				CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>KENTUCKY</b>									
Shelby County	15	1851-1918 EST			0	0	0	6	Hail(1.00)
					60 to 65 MPH winds were reported one mile north of Shelbyville blowing down a few trees and power lines. Hail, one inch in diameter, cut a 3-mile-wide strip of destroyed crops from Chestnut Grove southeast to Waddy. Crop losses included 2,000 acres of corn valued at \$240,000; 1,100 acres of soybeans valued at \$175,000; and 250 acres of tobacco valued at \$850,000. In addition, 1,500 acres of hay and 150 acres of vegetables were destroyed.				
Jefferson County	26	1540 EST			0	1	0	0	Lightning
					An 18 year old male clubhouse attendant at Shively Municipal Golf Course was knocked off his feet when electricity from a lightning bolt passed through the telephone that he was holding. He was treated at a local hospital for shock.				
Kenton County	26	1805 EST			0	0	4	0	Thunderstorm Winds
					Thunderstorm winds blew the roof off of The Stripper Furniture Store at 10th Street and Russell Avenue in Covington. Reports of tree limbs, trees, wires, and roof shingles were all a part of the storm damage.				
Boone County	26	1810 EST			0	10	6	0	Thunderstorm Winds, Heavy Rain, Hail(1.75)
					Ten people sustained minor injuries when 1/2 of the roof of the Florence, Kentucky, Thriftway Store collapsed. Investigation proved the accumulation of heavy rain on the roof caused the collapse. 2.34 inches of rain fell in 40 minutes. Large hail also fell, averaging golfball size to slightly larger. Windows on the front of the store were blown outward into the parking lot. Several trees were blown down in the three to four block area to the southeast of the store. Damage to the building and its contents was listed at 1 million dollars.				
Henry County	26	1940 EST			0	0	2	0	Thunderstorm Winds
					Trees were reported down in the county.				
Shelby County	26	1950-2000 EST			0	0	3	0	Thunderstorm Winds
					Thunderstorm winds blew the top off of a tool shed near Chestnut Grove. Trees and power lines were blown down around Finchville.				
Jefferson County	26	2025 EST			0	0	3	0	Thunderstorm Winds
					A tree fell on a car and pulled power lines down on Grade Lane in Louisville. Large limbs also fell in the same area.				
Mercer County	26	2030 EST			0	0	4	0	Thunderstorm Winds
					Thunderstorm winds knocked down a 350-foot-long wall that was from 21 to 24 feet high on the new Kroger store on US 127 near Harrodsburg. A metal roof was ripped off of the Chimney Rock Marina on Harrington Lake. Several large branches were torn from trees.				
Estill County	26	2030 EST			0	0	4	0	Thunderstorm Winds, Lightning
					Trees from 3 to 4 feet in diameter were uprooted, limbs were torn down, and a radio repeater was knocked out at Chestnut Stand. Lightning struck and destroyed one house on Crooked Creek Road. Both incidences were in Irvine.				
Fayette County	26	2032-2045 EST			0	0	3	0	Thunderstorm Winds
					Trees were reported blown down in various locations of Lexington. Roads were blocked by downed trees and power lines at KY 922 and 353, on north Broadway, US 25, and at Euclid and Rose near the University of Kentucky campus.				
Breathitt County	26	2230 EST			0	0	4	0	Lightning
					Lightning struck an unoccupied house 1.5 miles east of Quicksand, resulting in a total fire loss.				
Boone County	27	1430-1445 EST			0	0	0	0	Funnel Cloud
					A funnel cloud was reported near Big Bone Lick State Park. The funnel was sighted by twelve maintenance workers.				
<b>KENTUCKY</b>									
LaRue County	27	1615 EST			0	0	3	0	Thunderstorm Winds
					Thunderstorm winds picked up a 12 X 16 foot shed and deposited it 30 feet from its foundation.				
Powell County	27	1635 EST			0	1	3	0	Lightning
					An 18 year old Clay City man was zapped by lightning through the telephone he was using in Clay City. The electrical current came through the telephone, went through the right side of his body and out his foot before punching holes in the stovetop and clothes dryer. The shock sent him to the floor and left him numb for a while. The kitchen that he was in, lit up with fire sparks. Lightning did some minor but obvious damage just outside of the kitchen's back door. A large tree showed signs of the lightning strike. Small pieces of bark were scattered throughout the yard. Clothesline posts in the yard were shattered.				
McCracken County	27	1700 EST			0	0	2	0	Thunderstorm Winds
					Trees were blown down at Jefferson Avenue and Central Street in Paducah. Power lines were also blown down.				
Ballard County	27	1730 EST			0	0	0	0	Funnel Cloud
					A funnel cloud was sighted 5 miles west of Lovelaceville.				
Ballard County	27	1745 EST			0	0	2	0	Thunderstorm Winds
					Trees were blown down two miles west of Kevil near Highway 60.				
<b>16 LOUISIANA</b>									
Calcasieu Parish	01	0715CST			0	0	?	0	Flash Flood
					Street flooding due to runoff from localized heavy rain was reported in the south portion of Lake Charles. One home was inundated with flood water. The NWS office at the airport recorded around 4 inches of rain between 0500CST and 0700CST.				
East Baton Rouge Parish	01	1115CST			0	0	5	0	Thunderstorm Wind
					A downburst from a thunderstorm toppled several large trees and shattered large plate glass windows at an auto dealership in Baton Rouge. Flying debris also caused damage to 20 new automobiles at the dealership.				
Rapides Parish	01	1430CST short	10		0	0	?	?	Tornado (FO)
					A small tornado touched down about 5 miles southwest of Alexandria, damaging a tomato and bean crop and causing structural damage to a storage building.				
Calcasieu Parish	02	1655CST			0	0	?	?	Thunderstorm Wind
					An NWS employee reported that strong gusts associated with a thunderstorm in Lake Charles moved a large shed from its foundation and drove a board into a tree.				
Jefferson Parish	04	1600CST			0	3	?	?	Thunderstorm wind
					Strong thunderstorm winds flipped over a carnival booth and temporarily turned over an inflatable carnival ride at Lafraniere Park in Kenner. Three people suffered minor injuries.				
Catahoula Parish	05	1830CST			0	0	?	?	Thunderstorm wind
Concordia Parish	05	1830CST			0	0	?	?	Thunderstorm wind
Franklin Parish	05	1830CST			0	0	?	?	Thunderstorm wind
					Thunderstorms developed over much of the three parishes during the early evening hours, producing strong wind gusts which toppled trees and damaged power lines. Approximately 1500 homes were without electricity for several hours.				
St. Bernard Parish	06	1100CST			0	0	4	0	Thunderstorm wind, Heavy rain
					A severe thunderstorm produced straight-line winds which tore the roof off a townhouse in Chalmette. Street flooding and downed power lines were also reported in the Chalmette area.				
Ascension Parish	06	1215CST			0	0	?	?	Thunderstorm wind
					Louisiana Highway Patrol reported trees damaged and power lines down as a severe thunderstorm moved through the Dutchtown area, about 18 miles south-southwest of Baton Rouge. Several greenhouses were heavily damaged by the storm.				

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

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					KILLED	INJURED	PROPERTY	CROPS	
<b>LOUISIANA</b>									
Ouachita Parish	06	1800CST			1	0	0	0	Thunderstorm wind
									A thunderstorm produced strong wind gusts which overturned a boat on Black Bayou Lake, about 7 miles north-northeast of Monroe. A six-year-old boy was thrown in the water and drowned. M060
Acadia Parish	13	1030CST			0	0	0	0	Thunderstorm wind
									Thunderstorm wind gusts tore the awning from a house in Rayne.
Cameron Parish	13	1440CST			0	0	0	0	Funnel Cloud
									A funnel cloud was reported 22 miles southeast of Lake Charles Airport.
Cameron Parish	16	0902CST			0	0	4	0	Thunderstorm wind
									Straight-line winds from a thunderstorm destroyed a barn roof and downed trees along Louisiana Highway 82 near White Lake.
Jefferson Davis Parish	16	1330CST			0	0	0	0	Funnel Cloud
									A funnel cloud was spotted just south of Jennings.
Vermillion Parish	23	1240CST			0	0	0	0	Funnel Cloud
									Vermillion Parish sheriffs office reported a funnel cloud associated with a strong thunderstorm near the Cameron-Vermillion parish line, about 10 miles west of Pecan Island.
East Baton Rouge Parish	23	1400CST			0	0	?	0	Lightning
									Lightning struck and substantially damaged the roof of a 12 story building in Baton Rouge.
Lafourche Parish	25	1900CST			0	3	?	0	Thunderstorm wind
									Strong wind gusts from a thunderstorm broke a plate glass window of a grocery store in Thibodaux. Three people suffered minor injuries.
St. Tammany Parish	26	1350CST			1	3	0	0	TSTM wind (51)
									Very strong wind gusts associated with a severe thunderstorm over the eastern portion of Lake Ponchartrain temporarily knocked down a 26 foot sailboat approximately one and a half miles south of Slidell. The boat did not capsize, however, the four occupants were thrown into the water. One man drowned while the three other occupants received minor injuries and were rescued. None of the boat occupants were wearing personal flotation devices (life jackets). Wind gusts at an automatic weather station near the accident site recorded sustained winds of 38 knots (44 mph) and wind gusts to 51 knots (59 mph) at the time of the accident. M260
St. Charles Parish	26	1630CST			0	0	3	0	Lightning
									Lightning struck a tree in a pasture near Des Allenands. Five head of cattle huddled beneath the tree were killed.
Ascension Parish	26	1700CST			0	0	?	?	Thunderstorm wind
									Thunderstorm winds damaged a convenience store roof and toppled trees in Sorrento. Power lines were downed and trees toppled in St. Amant and Prairieville, also.
East Baton Rouge Parish	26	1800CST			0	0	6	0	Lightning
									Lightning struck an electronics shop in Baton Rouge, subsequently causing a fire which destroyed the building.
Franklin Parish	28	1600CST			0	0	4	0	Thunderstorm wind
									A thunderstorm downburst rolled over one mobile home, ripped the roof off another mobile home and caused minor property damage at Turkey Creek Lake near Wisner.
Livingston Parish	28	1630CST			0	0	4	0	Thunderstorm wind
									Strong wind gusts from a thunderstorm toppled or uprooted several large trees near Watson. The falling trees damaged two mobile homes.
Calcasieu Parish	29	1518CST	short	10	0	0	3	0	Tornado (F1)
									The public reported a tornado that touched down near Holmwood, uprooted trees, and took the roof off of a garage.
Caddo Parish	30	1545CST			0	0	?	?	Thunderstorm Wind
									A downburst from a severe thunderstorm lifted the roof off of a metal storage building at a lumber yard in Shreveport. Flying debris from the site damaged several cars in a nearby parking lot.
<b>LOUISIANA</b>									
Franklin Parish	30	1540CST			0	0	?	?	Thunderstorm Wind
Franklin Parish	30	1555CST			0	0	5	0	Thunderstorm Wind
Caldwell Parish	30	1600CST			0	0	?	?	Thunderstorm Wind
Tensas Parish	30	1630CST			0	0	?	?	Thunderstorm Wind
									Strong thunderstorms developed over northeast Louisiana during the late afternoon. In the Winnsboro area, numerous trees were blown down and a carport was damaged at around 1540CST, and an apparent downburst destroyed two mobile homes and damaged two other mobile homes at Wisner at around 1555CST. Numerous trees were toppled by straight-line thunderstorm winds 15 miles southeast of Grayson and just northeast of Goldman.
Allen Parish	30	1755CST			0	0	?	?	Thunderstorm Wind
Vernon Parish	30	1815CST			0	0	?	?	Thunderstorm Wind
									The sheriffs office reported that thunderstorm winds toppled trees in Dakdale, while State police reported trees across the road in Pitkin due to strong thunderstorm winds.
Rapides Parish	30	1930CST			0	0	?	?	Thunderstorm Wind
									Thunderstorm winds blew over several large trees in Gardner and downed power lines just north of Alexandria. Thunderstorm winds also downed power lines 6 miles west of Alexandria and caused a tree to be toppled onto a car.
Red River Parish	31	1355CST			0	0	?	?	Thunderstorm Wind
Natchitoches Parish	31	1400CST			0	0	?	?	Thunderstorm Wind
									Numerous trees were downed by wind gusts associated with thunderstorms 10 miles east-southeast of Coushatta and near Clear Lake.
Webster Parish	31	1440CST			0	0	4	?	Thunderstorm Wind
									An apparent thunderstorm downburst near Minden rolled one mobile home over and knocked another mobile home off of its foundation.
<b>17 MAINE</b>									
Oxford Co. Bethel	03	1300EST			0	0	5	0	Lightning
									Lightning struck a 100-year-old barn, setting it on fire and burning it to the ground.
Franklin Co.	03	1400EST			0	0	5	0	Lightning
									Lightning struck a barn on Route 142 and set it on fire. The fire destroyed the barn and spread to the adjoining house before it was extinguished. The house had been completely renovated recently.
Somerset Co. Solon	10	1700EST			0	0	4	0	TSTM Wind
									A severe thunderstorm produced winds that tore several trees out of the ground, knocking down power lines, and blocking U.S. Route 201 for 1 1/2 hours. One tree crushed a car, one fell on a house, and another landed on a truck.
Cumberland Co. Bridgton	18	1900EST			0	0	4	0	TSTM Wind
									A severe thunderstorm produced winds that took down several trees, damaging 12 utility poles and disrupting electrical service for several hours.
Oxford Co. Hiram	26	0500EST			0	0	1	0	Hail (1.5)
									A severe thunderstorm produced one inch to golfball size hail.
Androscoggin Co. Auburn	26	0530EST			0	0	5	0	TSTM Wind
									A severe thunderstorm produced winds that were estimated to be at least 70 MPH, as that was the last reading before power was lost. About \$50,000 damage was done to aircraft at the Auburn-Lewiston Airport. Several trees were blown down in the city, one badly damaged the roof of a house.
Somerset Co. Long Falls Dam	26	1330EST			0	0	1	0	Hail (1.5)
									A severe thunderstorm produced golfball size hail at Long Falls Dam on Flagstaff Lake.
Lincoln Co. Jefferson	26	1500EST			0	0	3	0	TSTM Wind
									A severe thunderstorm produced winds that took down trees and power lines.
Knox Co. Rockland	26	1500EST			0	0	1	0	TSTM Wind (60)
									A severe thunderstorm produced winds that gusted to 60 knots at the Rockland Airport.

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					KILLED	INURED	PROPERTY	CROPS	
<b>MAINE</b>									
Somerset Co. Hartland	30	1830EST			0	0	1	0	Hail (1.5)
A severe thunderstorm produced golfball size hail at Great Moose Pond.									
Androscoggin Co. Lewiston	30	1915EST			0	0	1	0	Hail (1.5)
A severe thunderstorm produced golfball size hail.									
Penobscot Co. Orrington	30	1915EST			0	0	1	0	Hail (.75)
A severe thunderstorm produced 3/4 inch hail.									
<b>18 MARYLAND and D.C.</b>									
Anne Arundel County	01	1700EST			0	0	4	0	Thunderstorm Wind (61)
Winds of 61 knots hit Baltimore-Washington International Airport, ripping a 30 foot roof section off a terminal. Quarter-inch diameter hail was reported, and 2 houses were damaged by falling trees. Heavy rains of 1.3 inches in a 20 minute period fell. Up to 20 cars were damaged as water rose to door level in a parking lot.									
St. Marys County	03	1400EST			0	3	3	0	Thunderstorm Wind
A strong wind hit Point Lookout State Park, blowing over an RV travel trailer as well as two pop-up campers. Injuries were minor.									
Washington County	07	2100EST			0	0	1	0	Hail (0.75)
Thunderstorms occurring between 10 pm and midnight EDT resulted in reports of 3/4 inch diameter hail. Wind gusts near 35 mph also occurred. No major damage was reported.									
District of Columbia	11	1637EST 1637EST			0	0	?	?	Hail (1.00) Thunderstorm Wind (47)
Hail of one-inch diameter and winds peaking at 47 knots were reported at National Airport as a thunderstorm passed across the area.									
Allegany County	11	1700EST			0	0	2	0	Thunderstorm Wind (53)
Winds of 53 knots or more blew over an entrance tower at the Allegany County Fairgrounds. Trees and power lines were also blown over.									
Dorchester County	12	late afternoon			0	0	?	0	Thunderstorm Wind
In Cambridge, a grain elevator was toppled, a car was moved, a pivot irrigation system was twisted, a huge maple tree was blown over, and a trailer was flipped over onto a bulldozer by thunderstorm winds.									
Entire State	17	9-14 days			0	0	5	4	Heat Spell
Temperatures were well into the 90's (°F) and occasionally in excess of 100°F. Baltimore City was 103°F on the 21st; Frostburg peaked near 99°F. Hospitals reported a slight increase in heat stress problems. Near the start of the heat spell, many chickens died; the total deaths for the Delmarva Peninsula approached 1 million chickens which was somewhat above normal. PEPCO reported record power usage of 5 million kilowatts on the 21st.									
Prince Georges County	27	2245EST			0	0	?	?	Hail (0.75)
Thunderstorms moved through the county around midnight. Hail of 3/4 inch diameter and cherry tomato size was reported. Wind gusts of around 45 knots were also reported.									
<b>19 MASSACHUSETTS</b>									
Bristol County; Easton, Norton, North Attleboro, and Taunton	10	afternoon			0	2	5	0	Lightning
Lightning strikes caused minor injury to two persons in Easton and started a major fire in Norton. A historic brick chimney was heavily damaged in North Attleboro after a bolt of lightning blew a hole in it. In Taunton, lightning punched a hole in the roof of a church. The injuries in Easton occurred to a fifty-two year old man who was standing in his yard and was knocked to the ground by a bolt of lightning, and a seventeen-year-old youth who was knocked off of his bicycle. Both were taken to a local hospital for treatment. Scattered power outages were reported throughout the area. The lightning-ignited fire in Norton caused an estimated \$50,000 damage to a maintenance building at a local college.									
Berkshire County, Williamstown and North Adams	25	1715-1730EST			0	0	4	0	TSTM Wind (80)
A powerful downburst wind tore through portions of Williamstown and North Adams, uprooting trees, blowing out car windows, and toppling a billboard. The wind lasted only a minute or two during a severe thunderstorm and was accompanied by heavy rain. In North Adams, trees fell on two houses and several automobiles.									
Norfolk County, Weymouth; and Plymouth County, Hingham	25	evening			0	0	3	0	Lightning
A bolt of lightning sent sparks flying from the console of the Weymouth police radio in the police station, but without injury to the radio operator. In Hingham, lightning struck a major transmission line, knocking out power to the northern portion of the town for several hours.									
Nantucket County	31	early morning			0	1	5	0	Lightning
Lightning accompanying a heavy thunderstorm injured one man, toppled chimneys from several homes, and ignited a fire which heavily damaged a building. A nineteen-year-old youth was struck by lightning while in bed, knocked off the bed, and subsequently taken to the local hospital. The bolt apparently travelled down a wall in the bedroom and then through the bed. In another house, a mattress started smouldering after the house was struck and a power surge went through an electric blanket.									
<b>20 MICHIGAN</b>									
Lowell, Kent Co.	09	1127EST			0	0	0		Hail (0.75)
Grand Rapids, Kent Co.	09	1130EST			0	0	5		Lightning
3 SW Lowell	09	1135EST 0.1	20		0	2	3		Tornado (F1)
8 S Ithaca, Berrien Co.	09	1145EST			0	0	0		Hail (0.75)
Ionis Co.	09	1200EST			0	0	0		Thunderstorm Wind (58)
3 NW Ionis	09	1210EST			0	0	0		Funnel Cloud
Isabella Co.	09	1210EST			0	0	0		Lightning
8 S Ithaca	09	1232EST			0	0	2		Thunderstorm Wind
There was minor wind damage and lightning destroyed a building in Grand Rapids. The Lowell tornado blew down several trees and seriously damaged an auto dealership. A man running from the approaching funnel was cut when he smashed through a window. Another was injured by falling roof material. The entire roof was lifted off the building. It and a wall were partially destroyed when it slammed back down. 6 vehicles were damaged. A smokestack was destroyed and several buildings were set afire by lightning in Mt. Pleasant. Trees 2 feet diameter were blown down south of Ithaca.									
3,5 SE Granite Island, Lake Superior	09	1330EST			0	0	0		Waterspout
Teal Lake, Marquette Co.	09	1400EST			0	0	0		Funnel Cloud
3 ENE Munising to 6 NE Munising, Alger Co.	09	1650EST 2.7	400		0	0	0		Tornado (F1)
Numerous funnel clouds were observed over Lake Superior, at least one of which touched the water. The Munising tornado touched down on the northeast corner of a golf course and moved northeast through a forested area. Along the first 1.8 miles of track, trees all fell to the northeast. Then the track broadened and trees became twisted and shredded. A mobile home was rolled over, 4 houses were damaged, and a commercial dog kennel was partly destroyed. One of the missing dogs was found unharmed in a treetop 1/2 mile downwind.									

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					KILLED	INJURED	PROPERTY	CROPS		
<b>MICHIGAN</b>										
Leland, Leelanau Co.	09	1300EST			0	1	0			Lightning
Leelanau Co.	09	1300EST			0	0	0	C		Hail
Thompsonville, Benzie Co.	09	1330EST			0	0	0			Hail (0.75)
Northwest Antrim Co.	09	1400EST			0	0	0			Thunderstorm Wind
			A construction worker near the Lake Michigan shore was injured by lightning. A swath of hail from Cedar to Sutton's Bay severely damaged the tart cherry crop.							
Hastings, Barry Co.	09	1330EST			0	0	0			Thunderstorm Wind
Gull Lake, Kalamazoo Co.	09	1345EST			0	1	0			Lightning
4 N Battle Creek, Calhoun Co.	09	1357EST			0	0	3			Thunderstorm Wind
Battle Creek Airport Kalamazoo Co.	09	1410EST			0	0	0		(60)	Thunderstorm Wind
	09	1410EST			0	0	0			Thunderstorm Wind
	A falling tree damaged a pickup truck in Hastings. A boy was critically injured by lightning on an island in Gull Lake. Power lines were down north of Battle Creek. Trees were blown down, blocking roads, throughout eastern Kalamazoo County.									
2 SSE Elwira, Otsego Co.	09	1345EST			0	0	0			Funnel Cloud
4 NE Grayling, Crawford Co. to 7 N Red Oak, Oscoda Co. Crawford Co.	09	1415EST	18.4	40	0	0	2			Tornado (F1)
	09	1440EST			0	0	0			Hail (0.75)
	State police observed a funnel cloud northeast of Grayling. It disappeared into a wilderness to the northeast. Trees and powerlines were ripped up and some unoccupied cabins damaged south of Lovells. Trees and grounds were torn up and there was minor damage to the clubhouse at a golf course in northwestern Oscoda County.									
DeWitt Twp, Clinton Co.	09	1410EST			0	0	3			Thunderstorm Wind
Delta Twp., Eaton Co.	09	1435EST			0	0	3			Thunderstorm Wind
Northwest Livingston Co.	09	1450EST			0	0	0			Hail (1.00) (66)
Howell, Livingston Co	09	1450EST			0	0	0			Funnel Cloud
Lansing, Ingham Co.	09	1520EST			0	0	0			Thunderstorm Wind (52)
	A barn was set afire by lightning near DeWitt. Trees up to 2 feet in diameter were blown down in southern Clinton and northeastern Eaton counties. Streets were flooded in Charlotte.									
Allegan Co.	09	1510EST			0	0	3			Thunderstorm Wind
	1 to 2 foot trees were blown down 3 miles south of Montrose, others were split by lightning. Branches were carried up to 500 feet, one broke a glass door. A falling tree smashed a car in Hilliards.									
Richland Twp., Genesee Co.	09	1450EST			0	0	4			Lightning
Millington, Tuscola Co.	09	1530EST			0	0	4			Lightning
	A house was set afire in Genesee Co., and an inn in Millington.									
Lowell, Kent Co.	09	1800EST			0	0	0			Hail (0.75)
5 N Lowell	09	1830EST			0	0	0			Hail (1.75)
	09	1820EST	8.0	1000	0	0	0			Hail (0.75)
2 N Chesaning to 10 ENE Chesaning, Saginaw Co.										
Bitely, Newaygo Co.	09	1825EST			0	0	1			Thunderstorm Wind
near Belding, Montcalm Co.	09	1915EST			0	0	0			Funnel Cloud
Montcalm-Ionia county line	09	1930EST			0	0	3			Thunderstorm Wind
Greenville, Montcalm Co.	09	1957EST			0	0	0			Hail (0.75)
	Trees were blown down throughout the area. Lightning set one house afire.									
<b>MICHIGAN</b>										
4 SW West Olive to 3 ENE West Olive, Ottawa Co.	09	1945EST	7.5	50	0	0	3			Tornado (F8)
Hudsonville, Ottawa Co.	09	1949EST			0	0	0			Thunderstorm Wind (54)
Grandville, Kent Co.	09	2015EST			0	0	2			Thunderstorm Wind
Kentwood, Kent Co.	09	2030EST			0	0	5			Thunderstorm Wind
	The West Olive tornado may have come ashore from Lake Michigan, heaviest damage was at the shoreline. The track was almost entirely through open fields, with trees downed at roads and fence lines. No continuous damage area was more than 1/2 mile long. A building under construction was blown down in Kentwood, and 3 garages were destroyed and a house damaged by lightning fires.									
Oscoda, Iosco Co.	09	2215EST			0	0	4			Lightning
	A house and its contents were destroyed by fire.									
Western Wayne Co. Grosse Pointe, Wayne Co.	10	1400EST			0	0	6			Flash Flood
	10	1415EST			0	0	4			Lightning
	Serious local flooding occurred in Garden City, Inkster, Westland, Dearborn, and Dearborn Heights. 3 houses were set afire in Grosse Pointe. Trees were blown down along a narrow swath through northern Inkster and Dearborn Heights.									
2 SE Westphalia, Clinton Co.	10	1657EST	1.0	15	0	1	4			Tornado (F0)
Battle Creek, Calhoun Co.	10	1730EST			0	0	1			Thunderstorm Wind
Eaton Co.	10	1759EST			0	0	3			Thunderstorm Wind
Lansing, Ingham Co.	10	1800EST			0	0	3			Thunderstorm Wind
	The Westphalia tornado destroyed 2 outbuildings and damaged 2 others. A man attempting to cover a farm machine was blown to the ground. 2 persons saw the funnel and heard a roaring noise. Structural debris was carried up to 250 feet. Barns were destroyed by wind in western Eaton County. Trees were down blocking roads throughout the area. Small hail and lightning fires were reported.									
Gogebic Co.	11	1130EST			0	0	2			Thunderstorm Wind
Houghton Co. Airport	11	1210EST			0	0	0			Thunderstorm Wind (57)
Allouez, Keweenaw Co. to Lake Linden, Houghton Co.	11	1245EST	6.0	25	0	0	3			Tornado (F0)
Republic, Marquette Co.	11	1330EST			0	0	0			Funnel Cloud
near Alpha, Iron Co.	11	1333EST			0	0	4			Lightning
Negaunee, Marquette Co.	11	1400EST			0	0	0			Hail (0.75)
Gwinn, Marquette Co.	11	1439EST			0	0	0			Funnel Cloud
1 S Vulcan, Dickinson Co. to Cooks, Schoolcraft Co.	11	1505EST	84.0	150	0	0	4			Tornado (F3)
Bark River, Menominee Co.	11	1525EST			0	0	2			Thunderstorm Wind
Green Bay, off Menominee Co.	11	1545EST			0	0	0			Funnel Cloud
4 N Eckerman, Chippewa Co.	11	1730EST	2.0	500	0	0	2			Tornado (F0)
St. Ignace, Mackinac Co.	11	1730EST			0	0	0			Thunderstorm Wind (52)
Cheboygan Co.	11	1800EST			0	0	2			Thunderstorm Wind
Sault Ste. Marie, Chippewa Co.	11	1839EST			0	0	2			Thunderstorm Wind
	A garage was destroyed and several houses damaged at the touchdown point of the Allouez tornado. It then threw a large tank around before skipping through a farming community, turning over wagons. Many trees were uprooted or snapped off. An unoccupied mobile home was rolled over at the end of the track. Persons near both ends of the track saw the rotating funnel and heard a roaring or whistling noise. Lightning put a Marquette radio station off the air. A warehouse and its contents were destroyed by lightning in Iron County. The Vulcan tornado had a long, nearly continuous track mostly through wilderness. A farm building was destroyed and roads were blocked by trees near Vulcan. The tornado crossed the Dickinson-Menominee county line at U.S. 2 near Cunard at 1522EST. A house and several outbuildings were damaged at this location. Another house was destroyed in an isolated area of northern Menominee County at 1530EST. The funnel was seen crossing into Delta County near Shafter at 1545EST. Trees were down at that point. At 1620EST it moved into a farming area 7 miles west of Gladstone, where it was seen by at least 15 persons. It was described as "like a thousand tires stacked up, burning and smoking". A large barn was moved off its foundation, part of it collapsed killing 3 steers. A nearby wooded									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	
<b>MICHIGAN</b>											
											area had a path of destruction 100 yards wide and at least a mile long. Closer to Gladstone the damage looked more like a downburst, with tops torn out of trees and minor damage to many buildings. From this point on the track was partly over water, partly through wilderness. At 1725EST several buildings were knocked down at Cooks. The funnel then disappeared. Forward speed was a consistent 35 mph. Several funnels were seen just prior to the Eckerman tornado. One of them touched down on Piatt Lake. 2 buildings and 2 vehicles were damaged. The path width varied extremely, up to 1/3 mile. There was much wind damage in Sault Ste. Marie. Peak gust at the municipal airport was 48 mph., at the S. S. Marie, Ont. airport, 67 mph. There was wind and lightning damage in Cheboygan County, and 3 boats capsized on inland lakes.
near Hudson, Lenawee County	11	1314EST			0	0	0				Hail (0.75)
4 WSW De Tour Village to 2 NW De Tour Village, Chippewa Co.	12	1523EST	5.1	40	0	0	0	2			Tornado (F1)
St. Ignace, Mackinac Co.	12	1535EST			0	2	0				Lightning
											The tornado funnel was first seen over Lake Huron. It touched down, or came ashore, at Detour State Park. There was a nearly continuous track across the tip of the peninsula to Sweet's Point. It was still on the surface as it moved out onto the lower St. Marys River. There was minor damage to 3 houses and 1 car. One house, undamaged, shook violently while the occupant heard a sound like a train. The path of minor damage to trees was 1 to 2 miles wide, but all tornadic damage was at its northwestern border. An automatic weather station 2 miles southeast of the track measured 60 mph gusts. 2 persons working outdoors in St. Ignace were injured by lightning, one of them seriously.
Southeast Montcalm Co.	12	1600EST			0	0	2				Thunderstorm Wind
											Many trees fell, damaging cars, cabins, and mobile homes.
Gladwin, Gladwin Co.	12	1625EST			0	0	3				Thunderstorm Wind
Genesee & Tuscola Cos	12	2000EST			0	0	0				Thunderstorm Wind (52)
Sawyer AFB	18	2120EST			0	0	0				Thunderstorm Wind (56)
Iosco Co.	19	1635EST			0	0	3				Thunderstorm Wind
											State police reported at unconfirmed tornado at Sand Lake Corners and MS5. Trees and buildings were blown down. The path was 8 or 9 miles long "stripping". All damage appeared to be straight-line winds.
Gogebic Co.	20	1205EST			0	0	0				Thunderstorm Wind
10 E Iron Mountain, Dickinson Co.	20	1330EST			0	0	0				Funnel Cloud
near Bwin, Marquette Co.	20	1333EST			0	0	0				Thunderstorm Wind
Republic, Marquette Co.	20	1340EST			0	0	0				Thunderstorm Wind
Iron Mountain, Dickinson Co.	20	1355EST			0	0	2				Thunderstorm Wind
10 MNW Escanaba, Delta Co.	20	1410EST			0	0	3				Thunderstorm Wind
Menominee, Menominee Co.	20	1430EST			0	0	3				Thunderstorm Wind
Bark River, Delta Co.	20	1445EST			0	0	0				Thunderstorm Wind
											A mobile home was destroyed and a house damaged near Escanaba. A small boat capsized in Green Bay. Trees and power lines were down throughout the area. A woman was killed in an auto accident during heavy rain in Gogebic County.
Leelanau Co.	20	1500EST			0	0	4	4			Thunderstorm Wind
Lake Ann, Benzie Co.	20	1510EST			0	6	2				Thunderstorm Wind
Traverse City, Grand Traverse Co.	20	1533EST			0	0	4	4			Thunderstorm Wind (70)
Grand Traverse Co.	20	1550EST			0	0	0				Funnel Clouds
Lake Michigan, off Manistee	20	1600EST			2	0	0				Thunderstorm Wind
Nissauke Co.	20	1600EST			0	0	3				Thunderstorm Wind
SE of Reed City, Oscoda Co.	20	1610EST			0	0	0				Funnel Cloud
Crawford Co.	20	1620EST			0	0	2				Thunderstorm Wind
<b>MICHIGAN</b>											
Boughton Lake, Roscommon Co.	20	1630EST			0	0	2				Thunderstorm Wind (50)
Boughton Lake	20	1630EST			0	0	0				Waterspout
Alcona Co.	20	1630EST			0	0	2				Thunderstorm Wind
Montcalm Co.	20	1645EST			0	0	2				Thunderstorm Wind
Oscoda Co.	20	1700EST			0	0	2				Thunderstorm Wind
Muskegon Co.	20	1705EST			0	0	3				Thunderstorm Wind
Iosco Co.	20	1710EST			0	0	2				Thunderstorm Wind
West Branch, Ogemaw Co.	20	1714EST			0	0	3				Thunderstorm Wind
Gladwin Co.	20	1715EST			0	0	4				Thunderstorm Wind
Clare Co.	20	1715EST			0	0	4				Thunderstorm Wind
Montcalm Co.	20	1715EST			0	0	2				Thunderstorm Wind (52)
Isabella Co.	20	1720EST			0	0	0				Thunderstorm Wind (50)
Kent Co.	20	1730EST			0	0	4				Thunderstorm Wind (52)
Arenac Co.	20	1732EST			0	0	0				Thunderstorm Wind (52)
Midland Co.	20	1744EST			0	0	0				Thunderstorm Wind
near Ithaca, Gratiot Co.	20	1759EST			0	0	2				Thunderstorm Wind (52)
Ottawa Co.	20	1800EST			0	0	0				Thunderstorm Wind
Bay Co.	20	1807EST			0	0	2				Thunderstorm Wind (55)
3 W Caseville, Saginaw Bay	20	1810EST			0	0	0				Waterspout
Saginaw Bay off Sebawaing	20	1815EST			1	0	0				Thunderstorm Wind
Maple Rapids, Clinton Co.	20	1820EST			0	0	0				Thunderstorm Wind
Saginaw Co.	20	1824EST			0	0	2				Thunderstorm Wind
Ontonagon, Shiawassee Co.	20	1830EST			0	0	0				Thunderstorm Wind
Allagan Co.	20	1830EST			0	0	2				Thunderstorm Wind
5 SW Allegan	20	1830EST			0	0	0				Funnel Cloud
Barry Co.	20	1830EST			0	0	2				Thunderstorm Wind
Genesee Co.	20	1834EST			0	0	3				Thunderstorm Wind
Ionia Co.	20	1840EST			0	0	3				Thunderstorm Wind
Freeport, Barry Co.	20	1840EST			0	0	3				Thunderstorm Wind
3 N Orangeville, Barry Co.	20	1845EST	0.4	20	0	0	1				Tornado (FB)
Calhoun Co.	20	1845EST			0	0	3				Thunderstorm Wind
East Lansing, Ingham Co.	20	1850EST			0	0	2				Thunderstorm Wind (52)
Eaton Co.	20	1853EST			0	0	2				Thunderstorm Wind
Van Buren Co.	20	1900EST			0	0	1				Thunderstorm Wind
Jackson Co.	20	1905EST			0	1	3				Thunderstorm Wind (52)
Berrien Co.	20	1910EST			0	0	2				Thunderstorm Wind (52)
Kalamazoo Co.	20	1920EST			1	0	2				Thunderstorm Wind
Charlotte, Eaton Co.	20	1925EST			0	0	0				Hail (0.75)
Jonesville, Hillsdale Co.	20	1925EST			0	0	1				Thunderstorm Wind
Powdermill, Livingston Co.	20	1925EST			0	0	0				Thunderstorm Wind
Hartland, Livingston Co.	20	1930EST			0	0	0				Funnel Cloud
2 SE Ortonville, Oakland Co.	20	1933EST			0	0	0				Funnel Cloud
Oakland Co.	20	1935EST			0	0	4				Thunderstorm Wind
2 S Arada, Macomb Co.	20	1950EST			0	0	0				Funnel Cloud
Wayne Co.	20	2015EST			1	0	3				Thunderstorm Wind (50)
Northville, Wayne Co.	20	2015EST	0.1	20	0	0	2				Tornado (FB)
Northville, Wayne Co.	20	2015EST			0	0	0				Funnel Cloud
Washtenaw Co.	20	2030EST			0	0	1				Thunderstorm Wind
Northern Branch Co.	20	2030EST			0	0	0				Thunderstorm Wind
Northern Hillsdale Co.	20	2030EST			0	0	0				Thunderstorm Wind
											6 children were injured by a falling tree at a camp in Benzie Co. 26 boats capsized on Grand Traverse Bay, 2 women drowned in one. A small aircraft was torn from its moorings and destroyed in Traverse City. Swimmers were drowned when winds came up suddenly near Manistee, Sebawaing, Kalamazoo, and Rockwood. A mobile home was rolled over in Curtisville. There was a narrow path of downed trees 8 miles north of Atlanta. 2 cars were smashed by falling trees near Muskegon. Rotating clouds were seen in Arenac County. Trees were down in Montcalm County, mostly along a Greenville-Vestaburg line. Buildings were damaged by falling trees in Midland County. Streets were blocked in Grand Haven. In Ionia County a tree fell on a truck and a boat capsized on Long Lake. A tornado was seen touching down briefly on Gun Lake in western Barry County. Small trees were downed near the shore.
9 W Detroit, Wayne Co.	20	1710EST			0	0	3				Thunderstorm Wind
											A man was injured in Jackson when a tree fell on a moving car. A pickup truck was blown off the road south of St. Joseph. 3 miles north of Detroit Metropolitan Airport a tornado was seen to touch down, pick up a camper top, and smash it through a mobile home. F320 F350 H470 F120 H370
											Signs and branches were blown down along Southfield between Rotunda and Ford. Underpasses were flooded.
Ypsilanti, Washtenaw Co.	22	1551EST			0	2	0				Lightning
											2 construction workers were injured.
Sault Ste. Marie, Chippewa Co.	23	1905EST			0	0	2				Thunderstorm Wind (52)
											2 cars and several buildings were damaged by falling trees. Peak gusts were 60 mph at the Soo Locks, 47 mph at the municipal airport.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

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					KILLED	INJURED	PROPERTY	CROPS	
<b>MICHIGAN</b>									
Port Huron, St. Clair Co.	24	1648EST			0	5	0		Lightning
			Coast Guardsmen standing on seawall were struck.						
Kalamazoo and Barry Cos.	28	1638EST			0	2	3		Lightning
			A woman in Kalamazoo and a man in Orangeville were struck						
Kalamazoo Co: Parchment	29	1615EST			0	0	2		Hail (2.75)
Kalamazoo	29	1615EST			0	0	0		Funnel Cloud
	29	1616EST			0	0	4		Thunderstorm Wind
	29	1628EST			0	0	2		Hail (1.75)
Vicksburg	29	1634EST			0	0	0		Hail (0.83)
Fortage	29	1637EST			0	0	0		Funnel Cloud
			Trees and power lines were down throughout the area. Local flooding occurred in northeast Kalamazoo and Parchment.						
Lake Michigan off South Haven	29	1721EST			0	0	0		Waterspout
			The spout was moving southward parallel to the shore.						
4 E Adrian to 6 NW Blissfield, Lenawee Co.	31	1538EST	3.5	20	0	0	3		Tornado (F0)
			Trees blown down along the track showed some twisting motion. A mobile home near the end of the track was lifted off its foundation and damaged. The funnel was seen.						
<b>21 MINNESOTA</b>									
Polk Co. 10 E Crookston	01	1535-	Short	20	0	0	0	0	Tornado (F0)
		1540CST							
Erskine	01	1544-	0.1-	20	0	0	0	0	Tornado (F0)
		1559CST	0.3						
Mentor	01	1544CST			0	0	0	0	Funnel
Red Lake Co. Oklee	01	1610CST			0	0	0	0	Funnel
Polk Co. 6 NW Fosston	01	1615CST			0	0	0	0	Funnel
			A tornado touched down briefly near Marcoux and another tornado was observed picking up debris from the ground just west of Erskine.						
Polk Co. 3 S Gully	01	2300CST			0	0	0	0	Hail (0.9)
8 NE Fosston	01	2310CST			0	0	0	0	Funnel
Clearwater Co. 2 N Gonvick	01	2330CST			0	0	3	?	Thunderstorm Wind
			Thunderstorm winds damaged several farm sites north of Gonvick. Locked down grain doors were blown off an elevator and a metal door was blown off a barn. Windows were knocked out of farm homes and trees were downed. The wind was accompanied by hail of unspecified size that damaged crops and accumulated to 6 inches in depth.						
Wright Co. 4 SE Cokato	05	1654CST			0	0	0	0	Funnel
Olmsted Co. Rochester	05	1729CST			0	0	0	0	Thunderstorm Wind (S6)
			A gust of 64 miles per hour was measured at the Rochester Airport.						
Dodge Co. 2 SE Claremont	06	1055CST			0	0	0	0	Funnel
Washington Co.	06	1435CST			0	0	0	0	Funnels
			Several funnels were sighted across the central Washington County communities of Woodbury, Lake Elmo and Lakeland.						
Olmsted Co. Stewartville	08	2000CST			0	0	4	0	Thunderstorm Wind
			Thunderstorm winds damaged a metal shed and downed trees along a narrow path in Stewartville. Falling trees crushed a vehicle and caused minor property damage to homes.						
<b>MINNESOTA</b>									
Waseca Co. 1 S Janesville	10	0040CST			0	0	4	0	Thunderstorm Wind
Waseca	10	0110CST			0	0	5	0	Thunderstorm Wind (79)
			Winds blew over a shed at a farm site just south of Janesville. A gust of 91 miles per hour was measured in Waseca. The wind tipped a mobile home off its foundation and tore its roof off in Waseca. Several businesses and homes in Waseca received structural damage. A commercial billboard broke loose, damaging four trucks. Trees and power lines were also downed.						
Douglas and Todd Counties	10	2046-	15	10	0	0	0	0	Tornado (F0)
		2127CST							
			A tornado touched down at several sites along a 15 mile path. The tornado was sighted 4 miles north of Osakis, 10 miles south of Eagle Bend and 3 miles west of Browerville. The tornado touched down in open areas and caused no significant damage.						
Ottertail Co. 3 N Fergus Falls	10	2230CST			0	0	4	0	Thunderstorm Wind
New York Mills	10	2255CST			0	0	0	0	Thunderstorm Wind
			Winds knocked over a tree that crushed a mobile home and winds ripped a deck off another mobile home north of Fergus Falls. Twenty trees at the same site were twisted and downed. A number of trees were also knocked down around New York Mills.						
Cass Co.	10	2330CST			0	0	4	0	Thunderstorm Wind
			Winds downed trees and power lines in scattered areas across Cass County. The heaviest damage occurred near Norway Lake north of Pine River where several homes received roof and structural damage.						
Crow Wing Co. Emily	10	2345CST			0	0	0	0	Thunderstorm Wind
			A number of trees were knocked down around Emily.						
Le Sueur Co. Le Sueur	11	0015CST			0	0	0	?	Thunderstorm Wind, Hail (0.75)
			Dime size hail caused minor crop damage and winds downed several trees.						
Steele Co. Owatonna	11	0030CST			0	0	3	0	Thunderstorm Wind
			Winds downed six trees and caused minor property damage.						
Lincoln Co. Hendricks	11	0238CST			0	0	4	0	Thunderstorm Wind
2 S Porter	11	0255CST			0	0	3	5	Thunderstorm Wind
Lyon Co. 1 N Taunton	11	0300CST			0	0	0	5	Thunderstorm Wind, Hail (1.0)
Lincoln Co. Tyler	11	0350CST			0	0	0	5	Thunderstorm Wind
Renville Co. Sacred Heart	11	0420CST			0	0	0	0	Thunderstorm Wind
Renville	11	0430CST			0	0	0	0	Thunderstorm Wind
Kandiyohi Co. Willmar	11	0500CST			0	0	0	0	Hail (0.75)
5 NW Lake Lillian	11	0500CST			0	1	4	0	Thunderstorm Wind
7 NW Lake Lillian	11	0505CST			0	0	3	0	Thunderstorm Wind
Nicollet Co. Lafayette	11	0515CST			0	0	0	0	Thunderstorm Wind
Stearns Co. 3 S Kimball	11	0530CST			0	0	4	0	Thunderstorm Wind
Wright Co. Buffalo	11	0545CST			0	0	4	0	Thunderstorm Wind (76)
Sherburne Co. Elk River	11	0555CST			0	0	4	0	Thunderstorm Wind
Anoka Co. Coon Rapids	11	0600CST			0	0	0	0	Thunderstorm Wind
Blaine	11	0600CST			0	0	0	0	Thunderstorm Wind
Anoka	11	0600CST			0	0	0	0	Thunderstorm Wind
Isanti Co. Cambridge	11	0630CST			0	0	3	0	Thunderstorm Wind
Kanabec Co. Mora	11	0715CST			0	0	4	0	Thunderstorm Wind
Pine Co. 2 W Pine City	11	0740CST			0	0	0	0	Thunderstorm Wind
2 E Sandstone	11	0807CST			0	0	0	0	Thunderstorm Wind
			Thunderstorms crossed from southwest to east-central Minnesota knocking down trees, causing crop damage and resulting in scattered reports of property damage. A man was treated at a hospital for cuts and bruises he received after a tree fell and crushed the cab of his truck near Big Kandiyohi Lake, northwest of Lake Lillian. A radio station at Buffalo measured a gust of 87 miles per hour.						

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JULY 1987

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					KILLED	INJURED	PROPERTY	CROPS	
<b>MINNESOTA</b>									
Faribault Co. Elmore	11	1530CST			0	0	4	0	Thunderstorm Wind
Blue Earth Martin Co.	11	1550CST			0	0	0	0	Hail (1.75)
Fairmont Faribault Co.	11	1550CST			0	0	4	0	Lightning
Kiester	11	1620CST			0	0	4	0	Thunderstorm Wind
Wells	11	1640CST			0	0	4	0	Thunderstorm Wind
Freeborn Co. Alden	11	1647CST			0	0	4	0	Thunderstorm Wind, Funnel
Winona Co. 7.5 SE Winona	11	1730CST			0	0	0	0	Funnel
2.5 SE Rollingstone	11	1810-1811CST	0.1	5	0	0	0	0	Tornado (F0)
					Thunderstorm winds knocked down trees and caused scattered property damage across south-central and southeast Minnesota. A tornado touched down briefly in Hillsdale Township in Winona County. Lightning caused considerable damage to electronic equipment and appliances around Fairmont.				
Pipestone Co. and Murray Co.	11	2030CST			0	0	0	5	Thunderstorm Wind
					Strong winds accompanied by pea size hail damaged crops in a 7-mile path from just east of Holland, east into extreme western Murray County.				
Lincoln Co. Tyler	11	2050CST			0	0	0	0	Hail (1.75)
					Golfball size hail fell at Tyler.				
Redwood Co. Walnut Grove	11	2135CST			0	0	0	?	Hail (1.0)
Milroy	11	2135CST			0	0	0	?	Hail
					Hail damaged crops around Walnut Grove and 8 miles north of Walnut Grove near Milroy.				
Sibley Co. Gaylord	11	2320CST			0	0	0	0	Thunderstorm Wind (52)
					Winds of 60 miles per hour were reported at Gaylord.				
Olmsted Co. 8 SW Stewartville	14	1630CST			0	0	0	5	Hail (1.5)
					Hail damaged 2000 acres of crops in southwest Olmsted County. The hail was as large as 1 1/2 inch in diameter but was mostly pea to marble size and accumulated to a depth of 3 inches at some locations.				
Waseca Co. Janesville	14	1835-1836CST	0.1	5	0	0	0	0	Tornado (F0)
Blue Earth Co. Mankato	14	1837CST			0	0	0	0	Funnel
5 W Madison Lake	14	1930-1931CST	0.1	5	0	0	0	0	Tornado (F0)
					Tornadoes touched down briefly just north of Janesville and near Eagle Lake west of Madison Lake.				
Polk Co.	16	2200CST			0	0	?	6	Hail (2.75)
					Hail as large as baseballs damaged crops from East Grand Forks through the Key West area to Euclid. County officials estimated that 20,000 acres were affected with damage up to 100 percent in areas.				
Koochiching Co. 34 W International Falls	17	0230CST			0	0	0	0	Thunderstorm Wind
					Winds knocked down trees south of Birchdale and west of Loman.				
Becker Co. Detroit Lakes	17	1845CST			0	0	3	0	Thunderstorm Wind
					Winds knocked down trees and power lines.				
Itasca Co. Deer River	18	1400-1405CST	0.1	10	0	0	3	0	Tornado (F1)
					A tornado moving northeast over Deer River touched down briefly breaking off trees and signs. The tornado picked up a gas pump anchored in concrete and smashed it into a shed. The tornado funnel was observed to be horizontal to the ground near the damaged area.				
<b>MINNESOTA</b>									
Beltrami Co. 4 E Bemidji	18	1545CST			0	0	3	0	Thunderstorm Wind
Mahnomen Co. 4 E Naytahwaush	18	1711CST			0	0	0	0	Funnel
Clearwater Co. 7 SW Bagley	18	1727CST			0	0	0	0	Funnel
Bagley	18	1741CST			0	0	0	0	Funnel
1 NW Bagley	18	1756CST			0	0	0	0	Thunderstorm Wind
5 S Shevlin	18	1807-1808CST	Short	5	0	0	0	0	Tornado (F0)
					A tornado touched down briefly south of Shevlin and picked up some brush and debris. Winds damaged a house and some trees east of Bemidji and blew down a shed northwest of Bagley.				
Becker Co. Lake Park	20	0240CST			0	0	0	0	Hail (0.75)
Wilkin Co. Campbell	20	0330CST			0	0	4	0	Thunderstorm Wind
Ottertail Co. Pelican Rapids	20	0355CST			0	0	4	0	Thunderstorm Wind
Fergus Falls	20	0400CST			0	0	0	0	Thunderstorm Wind (62)
Ottertail Battle Lake	20	0430CST			0	0	0	0	Thunderstorm Wind
Hubbard Co. Guthrie	20	0430CST			0	0	0	0	Thunderstorm Wind
Wadena Co. Aldrich	20	0515CST			0	0	0	0	Funnel
Todd Co. Staples	20	0530CST			0	0	0	0	Hail (0.75)
7 E Long Prairie	20	0540CST			0	0	0	0	Hail (0.75)
Itasca Co.	20	0600CST			0	0	4	0	Lightning
	20	0630CST			0	0	0	0	Thunderstorm Wind
					Thunderstorms with damaging wind and marble size hail moved west to east across north-central Minnesota. A gust of 71 miles per hour was measured at a radio station near Fergus Falls.				
Chisago Co. Harris	20	0732-0735CST	0.1	5	0	0	0	0	Tornado (F0)
					A tornado touched down just east of Harris near the intersection of County Roads 9 and 57. No significant damage occurred.				
Wright Co. St. Michael	20	1745CST			0	0	0	0	Hail (1.0)
Dakota Co. Burnsville	20	1745CST			0	0	0	0	Hail (1.75)
Burnsville	20	1806CST			0	0	0	0	Funnel
Wright Co. Buffalo	20	1810CST			0	0	0	0	Hail (0.75)
Dakota Co. Mendota Heights	20	1815CST			0	0	0	0	Hail (1.75)
Ramsey Co. Shoreview	20	1910CST			0	0	3	0	Thunderstorm Wind
Maplewood and North St. Paul	20	1922CST			0	0	0	0	Hail (1.75)
Carver Co. 1 E Waconia	20	1930CST			0	0	5	0	Thunderstorm Wind, Hail (0.75)
					A large and distinct funnel moved over Burnsville south of Highway 42. The funnel was observed by many as it moved in a northeast direction. Thunderstorm winds knocked down trees in Shoreview. Several small planes and a hangar were damaged by wind at the Molnau Airport near Waconia.				
Hennepin Co. Eden Prairie									
Bloomington									
Scott Co. Shakopee									
Prior Lake									
Savage									
Eastern Carver Co.	20	1930CST			0	0	5	0	Flash Flood
					Intense rain fell at a rate of 7.83 inches in 6 hours at Chaska from the evening into early morning hours. 6.75 inches fell in the southern sections of Bloomington and 6.52 inches fell in Burnsville. The greatest rainfall recorded was 9 inches at Shakopee. At 1930CST, a mudslide occurred on Highway 169 along the border of Eden Prairie and Chanhassen. By 1945CST, flooding filled some streets with one foot of water in Chaska and by 2040CST, basements were also flooded and roads had to be closed. Creeks ran out of their banks in eastern Carver County and washouts occurred around bridges and on the shoulders of roads. The foundation was washed out under a mobile home in Chaska causing unreparable damage.				
Kandiyohi Co. Raymond	20	2055CST			0	0	0	0	Hail (1.0)



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

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					KILLED	INJURED	PROPERTY	CROPS	

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## MINNESOTA

Hennepin Co. Mound	20	2119CST			0	0	0	0	Hail (0.75)
	Excelsior	20	2120CST			0	0	0	Thunderstorm Wind
Wind knocked trees down in Excelsior.									
Rock Co. Luverne	20	2235CST			0	0	0	0	Thunderstorm Wind (51)
	Winds gusted to 59 miles per hour in Luverne.								
Clay Co. Glyndon	21	1826CST			0	0	0	0	Funnel
	Hitterdal	21	1845-1846CST	Short 5	0	0	0	0	Tornado (F0)
Moorhead	21	1900CST			0	0	3	0	Thunderstorm Wind
	Barnesville	21	1913CST		0	0	0	0	Funnel
Clearwater Co. Shevlin	21	1930CST			0	0	0	0	Thunderstorm Wind
	Polk Co. Lengby	21	1930CST		0	0	0	0	Hail (0.75)
St. Louis Co. 20 W Ely	21	2030CST			0	0	0	0	Thunderstorm Wind
	Hubbard Co. 20 S Bemidji	21	2046CST		0	0	0	0	Funnel
Itasca Co. 20 NW Grand Rapids	21	2230CST			0	0	0	0	Funnel
	Norman Co. Shelly	21	2235CST		0	0	0	0	Hail (0.75)
Ada		21	2302CST		0	0	0	0	Hail (0.75)
Borup		22	0024CST		0	0	0	0	Thunderstorm Wind, Hail (0.75)
Cass Co. Cass Lake	22	0210CST			0	0	0	0	Thunderstorm Wind
	A tornado touched down briefly just south of Hitterdal and stirred up a debris cloud. Thunderstorms knocked down trees at several locations in northern Minnesota. Winds also partially lifted the roof of a home and blew shingles off several other homes just northeast of Moorhead.								
Koochiching Co. 5 E International Falls	22	1945CST			0	0	0	0	Thunderstorm Wind
	Many trees were knocked down along the south shore of Rainy Lake.								
Norman Co. Ada	23	0205CST			0	0	5	0	Thunderstorm Wind (71)
	Polk Co. 91W Fosston	23	0255CST			0	0	4	0
Mahnomon Co. Mahnomon and Naubun		23	0310CST			0	0	0	0
	Clearwater Co. Bagley	23	0315CST			0	0	3	0
Beltrami Co. 16 N Bemidji		23	0320CST			0	0	3	0
	Bemidji	23	0330CST		0	0	0	0	Thunderstorm Wind
	Black Duck	23	0345CST		0	0	3	0	Thunderstorm Wind
Koochiching Co. Northone	23	0350CST			0	0	0	0	Thunderstorm Wind
	Gusts of 82 miles per hour tore roofs off several homes in Ada, destroyed farm outbuildings, uprooted trees and damaged the Ada water tower. A mobile home was tipped over west of Fosston. Buildings were also destroyed 16 miles north of Bemidji, in Bagley and at Black Duck. Numerous trees were knocked down resulting in scattered power outages.								
Stearns Co. St. Cloud	23	1121CST			0	0	0	0	Hail (1.0)
	Benton Co. Sauk Rapids	23	1150CST			0	0	0	0
Large trees and power lines were knocked down by strong winds in Sauk Rapids.									
Sherburne Co. Zimmerman	23	1705CST			0	0	0	0	Hail (0.75)

## MINNESOTA

Hennepin Co. Champlin	23	1735CST			0	0	0	0	Funnel
	Maple Grove and Brooklyn Park	23	1747-1802CST	5 170	0	0	7	0	Tornado (F3)
A tornado began in a housing development on the east edge of the Elm Creek Park Reserve in Maple Grove. The tornado moved east into Brooklyn Park and dissipated just prior to the intersection of 97th and West River Road. The greatest intensity of the tornado was near the beginning of its path in Maple Grove where 14 homes were left uninhabitable. A total of 298 homes were damaged to some degree. Damage totaled 5 million dollars in Maple Grove alone. The tornado went on to destroy four barns and cause major damage to ten homes in Brooklyn Park. Eight other Brooklyn Park homes received minor structural damage.									
Hennepin, Ramsey, Dakota, Scott, Carver and Washington Counties	23-24	1800-0100CST			2	2	7	0	Flash Flood
	Intense rain from a thunderstorm complex moved into the Twin Cities metropolitan area around 1800CST. Between 1900CST and 2000CST, mudslides, flooded basements and overloaded drainage systems started to spread throughout the metropolitan area. By 2006CST, 6 inches of rain had fallen in Minnetonka. Ten inches of rain fell at the Twin Cities International Airport in less than 6.5 hours that evening, breaking a record for the most rain in a 24-hour period. 5.26 inches fell in 2 hours which set a new 2-hour rainfall record at the airport. Rain in the southern suburbs of Minneapolis fell over an area which received heavy rain on July 20th, giving a cumulative total of 12 to 14 inches in some areas. Streets became rushing rivers, parking lots became lakes and thousands of motorists were stranded throughout the area. Storm sewers spouted like geysers during the storm. Several flat roofs collapsed on buildings and many basement foundation failures were reported. Minnehaha, Nine Mile, Bassett, and Purgatory creeks swelled and overflowed, inundating adjacent areas. Nine Mile Creek was the most severely impacted, having much greater flooding than estimated for a 100-year event in some areas. Interstate 494 near Nine Mile Creek was covered with 9 feet of flood water and remained closed and under water from Thursday night until the following Tuesday afternoon. An estimated 21.3 million dollars damage occurred to 8,643 residential and 264 commercial properties. Five to six million dollars damage to public property, mostly wastewater treatment facilities, was reported. Two sisters in Edina were hospitalized with severe cuts after pressure from rising water shattered windows. A man was killed in the Sibley Park district of Minneapolis as water pressure caved in his basement wall. Another man died after he drove around a police barricade in Hopkins and his car was swept into Nine Mile Creek by strong flood waters. (M78P, M27W)								
Anoka Co. Fridley	23	1813CST			0	0	0	0	Funnel
	Hennepin Co. Long Lake	23	1823CST			0	0	3	0
Golden Valley		23	1830CST		0	0	0	0	Funnel
Ramsey Co. St. Paul	23	1835CST			0	0	0	0	Funnel
	Hennepin Co. Long Lake	23	1840CST			0	0	0	0
Eden Prairie		23	1844CST		0	0	0	0	Funnel
Eden Prairie		23	1851CST		0	0	0	0	Funnel
Golden Valley		23	1902CST		0	0	4	0	Thunderstorm Wind (61)
St. Louis Park Scott Co. Shakopee	23	1916CST			0	0	0	0	Funnel
	23	2023CST			0	0	0	0	Funnel
Hennepin Co. Brooklyn Park	23	2023CST			0	0	0	0	Funnel
	Golden Valley	23	2023CST		0	0	0	0	Funnel
Anoka Co. Blaine	23	2237CST			0	0	0	0	Hail (1.75)
	Blaine	23	2247CST		0	0	0	0	Thunderstorm Wind
	Lino Lakes	23	2250CST		0	0	0	0	Thunderstorm Wind, Hail (2.5)
	Thunderstorm winds lifted a garage off its foundation in Long Lake. Gusts to 70 miles per hour cracked windows in Golden Valley. Winds also knocked down trees 4 feet in diameter and downed power lines in Blaine along Highway 65. Tennisball size hail fell in Lino Lakes where more trees were downed by thunderstorm winds.								
Olmsted Co. 6 S Rochester	23	2252CST			0	0	0	0	Thunderstorm Wind (55)
	Winds gusted to 63 miles per hour at the Rochester Airport.								
Renville Co. Olivia	23	2305CST			0	0	0	0	Hail (2.75)
	Baseball size hail fell on the north side of Olivia.								

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					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	

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					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	

## MINNESOTA

Lake Co.	24	0300CST									Lightning
<p>A father and son were killed by lightning which hit a white pine 20 feet from the tent they were camping in. Two others at the same site on an island in Ensin Lake in the Boundary Waters Canoe Area received minor burns. (M430, M130)</p>											
Chisago Co. Stacy	25	1940CST									Lightning
<p>One woman was killed and another woman was knocked unconscious and hospitalized after being struck by lightning while horseback riding. A horse was also killed where the lightning struck 1/2 mile east of Stacy. (F390)</p>											
Stearns Co. 2 E Belgrade	25	2100CST									Thunderstorm Wind
Kandiyohi Co. Atwater	25	2200CST									Thunderstorm Wind
Meeke Co. Dassel	25	2225CST									Lightning
Anoka Co. Coon Rapids	25	2237CST									Thunderstorm Wind
<p>Winds tore the roof off a residence near Belgrade. Twenty trees were uprooted or broken off at a farm site near Atwater. A warehouse was destroyed at Atwater and its debris scattered for four blocks. Lightning shattered the chimney of a home in Dassel and damaged the interior.</p>											
Wabasha Co. Lake City	26	0210CST									Thunderstorm Wind
<p>Thunderstorm winds damaged the Lake City Marina and downed trees in and around Lake City.</p>											
Wright Co. Silver Creek	26	0800CST									Lightning
Buffalo	26	0830CST									Thunderstorm Wind
Montrose	26	0845CST									Thunderstorm Wind
<p>A home was gutted by fire in Silver Creek. Winds knocked down trees and power lines in Buffalo and threw a boat and trailer 50 feet into a neighboring yard just southeast of Buffalo.</p>											
Goodhue and Rice Counties	27	1420-1610CST	30	220	0	0	6	6			Tornado (F3)
<p>An unusual southwest-moving tornado initially touched down eight miles northwest of Red Wing. The tornado damaged a farm site east of Highway 61 then reached its maximum intensity as it moved across Welch Township. Two farm sites in Welch Township were leveled. The tornado left debris from buildings and farm equipment scattered over hundreds of yards. Trees were lifted and tossed like toys and electric poles were snapped like twigs. Dirt and debris within the tornado reached 3/8 of a mile across at its peak intensity. A horse was picked up by the tornado along with debris and was observed sailing horizontally through the air. Pickup trucks were also lifted and thrown about. Several hundred farm animals were injured or killed and wildlife also perished. The tornado skipped across northwest Goodhue County staying south of the Cannon River. Property damage was heavy in Stanton Township. Then at 1535CST, the tornado was sighted five miles east-northeast of Northfield where farm buildings were destroyed and a 150 foot swath of corn was sliced down. The tornado passed two miles south of Northfield then to the southeast of Dundas. The tornado ended in Bridgewater Township of Rice County where trees and power lines were downed about eight miles north of Faribault. The tornado left widespread power and communication outages and extensive crop damage. In Goodhue County alone, 5,000 acres of crops were damaged, 25 homes received minor damage, and six farm sites received major damage in addition to the two farms that were totally destroyed.</p>											
Dakota Co. Miesville	27	1433-1515CST	7	80	0	0	5	5			Tornado (F1)
Randolph	27	1530CST									Thunderstorm Wind
<p>At 1433CST, a tornado touched down 5 miles south of Hastings, then moved southwest reaching Miesville at 1515CST. The tornado lifted after it uprooted trees, blew out windows, and moved a house off its foundation in Miesville. Damaging winds picked up where the tornado left off. Many trees were knocked down around Randolph and Lake Byllesby Reservoir. Twelve residences near Lake Byllesby Reservoir received wind damage. The strong winds pushed past the Randolph area into Sciota Township where a machine shed and a barn were destroyed.</p>											

## MINNESOTA

Rice Co. Northfield	27	1545CST									Thunderstorm Wind (56)
Dakota Co. 5 S Lakeville	27	1620CST									Thunderstorm Wind
Scott Co. New Prague	27	1715CST									Thunderstorm Wind
Waseca Co. Waseca	27	1727CST									Thunderstorm Wind (70)
Waseca	27	1743CST									Thunderstorm Wind (63)
6 W Waseca	27	1750CST									Thunderstorm Wind
Scott Co. 16 E Gaylord	27	1814CST									Thunderstorm Wind
Freeborn Co. 15 NW Albert Lea	27	1845CST									Funnel
<p>A gust of 64 miles per hour was measured in Northfield where a number of trees were knocked down and a construction trailer was flipped on its side. Winds caused scattered tree damage and knocked out power and phone lines at many locations. One barn was destroyed in Eureka Township of Dakota County south of Lakeville and another barn was damaged between Waseca and Janesville. The city of Waseca was hit by a gust of 81 miles per hour, and then another gust of 72 miles per hour 16 minutes later. Windows were blown out in Blakey Township in extreme southwest Scott County.</p>											
Kittson Co. 5 SE Lake Bronson	31	1630CST									Funnel
<b>22 MISSISSIPPI</b>											
Bolivar County, Cleveland	04	0800CST									Thunderstorm Winds
<p>Strong winds damaged several roofs in Cleveland. Also, an awning was blown off a firehouse.</p>											
Leake County, 5 SE Carthage	06	1725CST									Thunderstorm Winds
<p>Numerous trees and power lines were blown down in the Freeny community, 5 miles southeast of Carthage. Also, some homes had roof damage and tin was blown off a storage shed.</p>											
Sharkey County, 4 N Rolling Fork	08	1310CST									Funnel Cloud
Jackson County, Hurley	14	1403CST									Lightning
<p>A 34-year-old man was working on his car under a 60 foot pine tree. Lightning struck the tree, then the man, instantly killing him. The lightning strike occurred just before it began to rain. M340</p>											
Hinds County, Jackson	24-28	Afternoon									Heat
<p>Five persons suffered heat exhaustion from temperatures near 100 degrees in the Jackson area. All five required aid by paramedics.</p>											
Harrison County, Gulfport	24	1730CST									Lightning
<p>Two boys were standing under a tree during a thunderstorm. Lightning struck the tree and then both of the boys. When paramedics arrived at the scene, neither boy was breathing and one boy's heart had stopped. Both boys survived.</p>											
Southern Jones County	25	1445CST									Thunderstorm Winds (G2)
<p>Winds near 60 mph were observed in southern Jones County. Trees and antennas were blown down.</p>											
Marion County, 7 E Bunker Hill	25	1530CST									Thunderstorm Winds
<p>Several Christmas trees were blown down in extreme northeast Marion County, 7 miles east of Bunker Hill.</p>											
Adams County, Natchez	25	1607CST									Hail (.75)
Jackson County	26	1300CST									Thunderstorm Winds
<p>Strong winds blew down signs and uprooted trees through parts of the county.</p>											
Harrison County, Gulfport	26	1330CST									Thunderstorm Winds
<p>Strong winds blew down trees in the Orange Grove area of northern Gulfport.</p>											

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## MISSISSIPPI

Hinds County, Jackson	26	1430CST		0	0	5	0	Thunderstorm Winds, Hail (1.75)
Winds estimated at over 80mph blew down numerous large trees and power lines and damaged homes in south Jackson. Hail up to the size of golf balls also occurred in the same area.								
Hinds County, Byram	26	1440CST		0	0	?	?	Hail (1.75)
Pike County, 3 W McComb	26	1730CST		0	0	?	?	Thunderstorm Winds
Trees and power lines were blown down on Highway 24, 3 miles west of McComb.								
Franklin County, Meadville	26	1735CST		0	0	?	?	Thunderstorm Winds
Numerous trees were blown down in Meadville. Several homes 3 miles north of Meadville suffered roof damage.								
Jackson County, Gautier	27	1059CST		0	0	4	0	Lightning
Lightning struck a home in Gautier and started a fire. The roof received extensive damage, with damage estimated at \$10,000.								
Rankin County, Richland	28	1708CST		0	0	5	0	Thunderstorm Winds, Hail (1.00)
Strong winds blew over trees and power lines in eastern Richland. Hail up to the size of nickels was also reported in the same area.								
Northeast Amite County, Smithdale	29	1500CST		0	0	?	?	Thunderstorm Winds
Trees were blown down near Smithdale.								
Adams County, 8 NE Natchez	29	1547CST		0	0	?	?	Thunderstorm Winds
Trees were blown down on the Natchez Trace.								
Walthall County, Lexie	30	1310CST		0	0	4	0	Thunderstorm Winds
Plate glass windows were blown out and trees blown down in Lexie.								
Rankin County, 5 E Florence	30	1440CST		0	0	?	?	Hail (1.75)
Hinds County, 10 W Jackson	30	1700CST		0	0	?	?	Thunderstorm Winds
Trees were blown down between Raymond and Clinton.								
Southwestern Copiah County	30	1740CST		0	0	?	?	Thunderstorm Winds
Trees were blown down in southwestern Copiah County.								
Claiborne County, 5 ENE Port Gibson	30	1815CST		0	0	?	?	Thunderstorm Winds
Trees were blown down on Highway 18, 5 miles east-northeast of Port Gibson.								
Leake County, Singleton	30	1815CST		0	0	?	?	Thunderstorm Winds
Strong winds blew down trees, power lines, and signs through a two mile stretch of Singleton. A few windows were also blown out.								

## 23 MISSOURI

Newton County, 7E Seneca	04	0810CST		0	0	3	0	TSTM Wind
Winds of 65 to 70 mph caused extensive damage to a house.								
Barry County, Monett; and Lawrence County, Aurora	04	0900CST		0	0	4	0	TSTM Wind
Power lines and trees were downed.								
Barry County, Cassville	04	0905CST		0	0	3	0	TSTM Wind
Commercial antennas were downed.								
Lawrence County, Aurora	04	0926CST		0	0	0	0	TSTM Wind
Winds of up to 60 mph occurred at Aurora.								
Greene County, Republic	04	0929CST		0	0	0	0	Hail (0.75)
Hail of up to 3/4 inch diameter fell.								
Stone County, Crane	04	0930CST		0	0	4	0	TSTM Wind
Trees were uprooted along a 2 mile path from 3 miles north of Crane to near Browns Spring.								

## MISSOURI

Taney County	04	1000CST		0	0	4	0	TSTM Wind
Trees and scattered power lines were downed.								
Christian County	04	1030CST		0	0	4	0	TSTM Wind
Buildings, trees, and power lines were downed in rural areas.								
Howell County	04	1125CST		0	0	5	0	TSTM Wind
Thunderstorm winds did damage to feed-milling buildings, several homes, powerlines, and trees.								
Cedar County, Stockton Lake State Park	05	0800CST		0	0	4	0	TSTM Wind
Campers, trailers, and trees were damaged and power lines were downed.								
Dade County: Lockwood	05	0800-0815CST		0	0	?	0	TSTM Wind
1E Dadeville	05	0820CST		0	0	2	0	TSTM Wind
Winds were estimated at up to 70 mph at Lockwood and a roof was blown off of a barn 1 mile east of Dadeville.								
Polk County, Bolivar	05	0837CST		0	0	0	0	TSTM Wind
Winds of 50 to 60 mph occurred.								
Greene County: Walnut Grove	05	0845CST		0	0	4	0	TSTM Wind
Fair Grove	05	0850CST		0	0	3	0	TSTM Wind
Trees and power lines were downed at Walnut Grove and a tree was blown into a house roof just west of Fair Grove.								
Laclede, Polk, Dallas, Webster, and Wright Counties	05	0900-1000CST		0	0	5	0	TSTM Wind
Widespread, scattered damage was done to trees and power lines.								
Webster County, Elkland	05	0915CST		0	0	0	0	TSTM Wind
Winds of up to 60 mph occurred.								
Hickory County, Hermitage	05	0915CST		0	0	5	0	TSTM Wind
Two boats were stranded in a lake. Two were pushed up on Rocks Lighthouse at Marina. Two campers were overturned and trees were uprooted.								
Morgan County, Barnett	05	0915CST		0	0	3	0	TSTM Wind
Large tree limbs were downed.								
Pettis County, Sedalia	05	0915CST		0	0	2	0	TSTM Wind
A utility pole was downed.								
Laclede County, Lebanon	05	0922CST		0	0	0	0	TSTM Wind
Winds of 55 to 60 mph occurred at Lebanon Airport.								
Howell and Texas Counties	05	1000-1100CST		0	0	5	0	TSTM Wind
Widespread, scattered damage to trees and power lines occurred in northern Howell County and Texas County.								
Miller County, Eldon	05	1010CST		0	0	3	0	TSTM Wind
Large trees were downed.								
Cooper County, Booneville	05	1020CST		0	0	4	0	TSTM Wind
Wind damaged a home and trees just west of Booneville.								
Cole County, Jefferson City	05	1020CST		0	0	4	0	TSTM Wind
A trailer was blown over and numerous trees were downed in the southeast portion of Jefferson City.								
Pulaski County, Waynesville	05	1020CST		0	0	4	0	TSTM Wind
Large trees and power lines were downed near Waynesville.								
Boone County: Columbia	05	1045CST		0	0	3	0	TSTM Wind
Sturgeon	05	1051CST		0	0	3	0	TSTM Wind
Trees were downed on the north side of Columbia and large trees were downed in Sturgeon.								
Howell County, Mountain View	05	1100CST		0	0	0	0	TSTM Wind
Winds of 50 to 60 mph occurred.								
Crawford County, 5N Cuba	05	1100CST		0	0	3	0	TSTM Wind
Trees were downed 5 miles north of Cuba.								

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

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	

## MISSOURI

Phelps County, Rolla	05	1105CST			0	0	4	0	TSTM Wind, Hail (0.50)
Trees were downed by winds of up to 65 mph, and 1/2 inch diameter hail fell at Rolla. The events were reported by KYTR Radio.									
Franklin County: Gerald, New Haven, and Union	05	1105CST			0	0	5	0	TSTM Wind
Gerald and New Haven	05	1110-1125CST			0	0	4	0	TSTM Wind
A rapidly-moving line of thunderstorms produced wind damage to trees and power lines across much of the county. Damage was reported at Gerald, New Haven, and Union.									
Additional damage consisting of uprooted trees and downed power lines occurred at Gerald and New Haven between 1110CST and 1125CST.									
Dent County, Salem	05	1110CST			0	0	3	0	TSTM Wind
Large tree limbs were downed in the northern portion of the county and in Salem.									
Gasconade and Montgomery Counties, Hermann and North of Hermann	05	1120CST			0	0	4	0	TSTM Wind
Trees and power lines were downed at Hermann in northern Gasconade County and north of Hermann in southern Montgomery County.									
Warren County, Marthesville	05	1130CST			0	0	3	0	TSTM Wind
Wind damage occurred in Marthesville and Dutzow.									
Howell County, 3S Mountain View	05	1140CST			0	0	0	0	TSTM Wind
Winds of 50 to 60 mph occurred.									
St. Louis County, Spirit of St. Louis Airport	05	1144CST			0	0	0	0	TSTM Wind
Winds of up to 53 mph occurred.									
Jefferson County: countywide	05	1230CST			0	0	3	0	TSTM Wind
High Ridge	05	1235CST			0	0	2	0	TSTM Wind
Trees were blown down in High Ridge and other scattered locations within the county. Winds of up to 60 mph were reported in High Ridge.									
St. Charles County, 10E Washington	05	1233CST			0	0	3	0	TSTM Wind
Large tree limbs were downed.									
St. Louis City	06	1000-1015CST			0	0	3	0	Hail (1.00)
Hail of up to 1 inch in diameter fell in several locations within the city. Some glass was broken.									
St. Louis County: Jefferson Barracks	06	1005CST			0	0	0	0	Hail (1.75)
Afton and Sappington area	06	1005-1010CST			0	0	4	0	Hail (1.75)
Webster Groves	06	1010CST			0	0	0	0	Hail (0.75)
Ellisville	06	1010CST			0	0	0	0	Hail (1.00)
Hail ranging in size from 3/4 inch to 1 3/4 inch diameter produced damage in the area around Afton and Sappington in south and southwest portions of the county. Additionally, hail of up to 1 3/4 inch diameter fell at Jefferson Barracks, up to 3/4 inch diameter hail fell at Webster Groves, and one-inch diameter hail fell at Clarkson and Manchester roads in Ellisville.									
Franklin County	06	1015CST			0	0	0	0	Hail (0.75)
Hail of 1/2 to 3/4 inch diameter fell.									
Pike County: Bowling Green	06	1350CST			0	0	?	?	Hail (1.75)
Bowling Green	06	1420CST			0	0	?	?	Hail (1.75)
Hail of up to 1 3/4 inch diameter fell twice in Bowling Green.									
St. Louis County, Chesterfield	06	1515CST			0	0	0	0	Hail (1.00)
St. Louis County: Lambert Field, Florissant, Hazelwood, Bridgeton, and St. Ann	06	1518CST			0	0	4	0	TSTM Wind
Winds of up to 62 mph occurred at Lambert Field. Winds exceeding 60 mph were reported in Florissant by meteorologist Guy Tucker. Damage, mostly to trees and power lines, was reported over much of the area around the airport. Some glass damage occurred at the control tower, and a very ominous-appearing shelf cloud was present.									
St. Charles County, City of St. Charles and various locations in the county	06	1532CST			0	0	3	0	Hail (1.00)
Hail of up to one-inch diameter produced some minor roof damage.									

## MISSOURI

St. Louis City	06	1550CST			0	0	3	0	TSTM Wind
Wind damaged trees in the southern part of the city.									
St. Louis County, Afton	06	1617CST			0	0	?	?	Hail (2.00)
Warren County: Warrenton	06	1620CST			0	0	2	?	Hail (1.75)
Warrenton and Truesdale	06	1625CST			0	0	?	?	Hail (1.75)
St. Charles County, Cottleville	06	1840CST			0	0	0	0	Hail (0.75)
St. Charles County, St. Peters	06	2120CST			0	0	4	4	Flash Flooding
Flooding of Dardenne Creek forced the closure of Interstate 70.									
Hickory County, Hermitage	12	2010CST			0	0	?	?	Hail (0.75), TSTM Wind
Hail of up to 3/4 inch diameter and winds of up to 60 mph occurred at Hermitage.									
Linn County	15	1900-1914CST			0	0	?	?	Hail (1.75)
Hail of from one-inch to 1 3/4 inch diameter fell in the southeast portion of the county.									
Morgan County, Versailles	25	1430CST			0	0	0	0	TSTM Wind
Winds of up to 60 mph occurred at Versailles.									
Barton County, Liberal	25	night			1	0	0	0	Lightning
A 16-year-old girl was killed when struck by lightning at Prairie State Park.									
<b>24 MONTANA</b>									
Meagher County	02	1800MST			0	0	0	4	Hail (1.00)
One-inch diameter hail fell at Fort Logan, causing some crop damage.									
Meagher County	02	1900MST			0	0	0	4	Flash Flood
Flash flooding occurred in White Sulphur Springs and Martinsdale. Rains of 2.5 to 4 inches fell in a few hours.									
Stillwater County	05	1700MET			0	0	0	4	Hail (1.75)
Golfball size hail fell 20 miles west of Rapelje. Some crop damage occurred.									
Beaverhead County	15	1700MST			0	0	0	0	Thunderstorm Wind
Sixty mph winds occurred at Dillon and Dewey from high-based thunderstorms.									
Roosevelt County	15	2145MST			0	0	0	0	Thunderstorm Wind
Thunderstorm winds of 60 to 80 mph occurred at Wolf Point. Minor tree damage was reported.									
Flathead and Lake Counties	18-19	1200MST-1000MST			0	0	0	5	Heavy Rain
Heavy rains of 2 to 4 inches over the weekend ruined the remaining cherry crop along Flathead Lake.									
Glacier County	21-22	2300MST-0800MST			0	0	5	0	Flooding
Heavy rains of 4 to 6 inches caused extensive flooding along Divide Creek.									
Valley County	22	1455MST			0	0	0	0	Hail (0.75)
Three-quarter inch diameter hail fell near Glasgow.									
Western Powder River County	22	1615MST			0	0	0	0	Hail (1.00)
Hail fell for twenty minutes near Fort Howe.									
Cascade County	24	2040MST			0	0	0	0	Hail (1.00)
A few one-inch hailstones fell in southeast Great Falls.									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

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					KILLED	INJURED	PROPERTY	CROPS	
<b>— MONTANA —</b>									
Toole County	25	1820MST			0	0	0	0	Hail (0.75) Three-quarter inch diameter hail fell 8 miles east of Sunburst.
Liberty County	25	1900MST			0	0	0	0	Hail (1.75) Hail of 1.75 inch diameter fell in southern Liberty County.
Teton County	26	1500MST			0	0	0	0	Hail (1.00) One-inch diameter hail caused some crop damage.
Teton County	26	2015MST			0	0	0	0	Thunderstorm Wind Strong thunderstorm winds occurred five miles west of Choteau.
Northern Cascade and Teton Counties	29	1600MST			0	0	0	0	Flooding Heavy rains caused localized flooding of roads.
Roosevelt, Daniels, Sheridan, and Eastern Valley Counties	29-30	2200MST-1000MST			0	0	6	6	Flooding Heavy rains from thunderstorms caused extensive flooding. Roads, railroads, and crops were washed out.
<b>25 NEBRASKA</b>									
Sherman Co. Loup City	03	1625CST			0	0	4	4	Hail (1.00), Thunderstorm Wind  One inch hail and strong winds damaged trees and gardens in Loup City. Heavy crop damage occurred just north of town.
Valley Co. 8W North Loup	03	1715CST			0	0	2	5	Hail (1.75)  One and three-quarter inch hail did extensive crop damage 8 miles west of North Loup.
Dawes Co. Chadron	03	1730CST			0	0	2	0	Thunderstorm Wind (50)  Wind gusted to 58 m.p.h. at Chadron, causing minor damage.
Perkins Co. SSW Ogallala	03	1945CST			0	0	2	1	Thunderstorm Wind (61)  Wind gusts to 70 m.p.h. were reported by the public 5 miles southwest of Ogallala. No significant damage was reported.
Lincoln Co. SW North Platte	03	2055CST			0	0	0	0	Funnel Cloud  A funnel cloud was reported by the State Patrol 5 miles west of North Platte.
Red Willow Co. Indianola	03	2200CST			0	0	4	2	Thunderstorm Wind  Strong wind gusts blew windows out of a home and took down trees in Indianola.
Dodge Co. Synder	05	1700CST			0	0	4	5	Flash Flood  Five to eight inches of rain fell in a 2 mile band between Dodge and Synder, damaging crops and eroding soil. Small wind-driven hail with the storm also damaged crops.
Kimball Co. Kimball	05	1903CST			0	0	3	4	Hail (1.00)  One-inch hail damaged crops around Kimball.
Douglas Co. Omaha	05	2045CST			0	0	5	1	Thunderstorm Wind  Strong wind gusts blew down trees and power lines in the north part of Omaha. Fallen trees damaged a number of homes and vehicles.
Keith Co. IEN Lemoyne	06	1728CST	0.1	20	0	0	1	1	Tornado (F0)  A tornado touched down briefly in open country 1 mile east and 1 mile north of Lemoyne.
Cherry Co. 9W6N Wood Lake	06	1830CST	0.3	30	0	0	4	1	Tornado (F1)  A tornado touched down on a ranch 9 miles west and 6 miles north of Wood Lake, destroying a barn and damaging fence.
Arthur Co. 3S Arthur	06	1908CST			0	0	1	2	Hail (1.75)  One and three-quarter inch hail fell in open rangeland 3 miles south of Arthur.
<b>— NEBRASKA —</b>									
Madison Co. 6S Norfolk	06	2235CST			0	0	2	3	Hail (1.00)  One-inch hail fell 6 miles south of Norfolk, damaging crops.
Wayne Co. Wayne	06	2302CST			0	0	3	2	Thunderstorm Wind (52)  Wind gusted to 60 m.p.h. at Wayne, resulting in reports of minor property damage.
Dixon Co. Newcastle	06	2318CST			0	0	4	2	Thunderstorm Wind (72)  Wind gusted to 83 m.p.h. near Newcastle, damaging outbuildings and trees.
Keith Co. Paxton	06	2337CST			0	0	2	2	Hail (0.75)  Three-quarter inch hail fell in Paxton and caused only minor damage.
Valley Co. 14W to 10WNW Ord	06	2340CST	4.0	50	0	0	5	4	Tornado (F2)  A tornado touched down 14 miles west of Ord and moved northeast about 4 miles destroying a barn and damaging trees, crops, and utility lines.
Harlan Co. Oxford	07	0300CST			0	0	4	0	Thunderstorm Wind  Strong winds took part of the roof off a house in Oxford.
Lincoln Co. Hershey	07	2200CST			0	0	2	2	Thunderstorm Wind (52)  Winds gusted to 60 m.p.h. in Hershey during a thunderstorm.
Jefferson Co. 4SW Diller	08	0300CST			0	0	5	3	Thunderstorm Wind  Strong winds destroyed a shed, pump house, machine shed, and grain bins on a farm 4 miles southwest of Diller.
Gage Co. 2E Beatrice	08	0330CST			0	0	3	1	Thunderstorm Wind  Wind gusts blew down trees 2 miles east of Beatrice.
Buffalo Co. Gibbon and Kearney	08	2032CST			0	0	4	5	Thunderstorm Wind, Hail (1.75)  Wind gusts tore the roof off a mobile home in Gibbon. One and three-quarter inch hail fell just south of Kearney, damaging crops.
Kearney Co. 2S Minden	08	2040CST			0	0	3	1	Thunderstorm Wind  Grain bins were blown over by strong winds 2 miles south of Minden.
Cheyenne Co. 7NW Sidney	08	2257CST			0	0	3	5	Hail (2.00)  Two-inch hail damaged crops 7 miles northwest of Sidney.
Douglas Co. Valley	09	0025CST			0	0	3	3	Hail (1.75)  One and three-quarter inch hail fell briefly around Valley, damaging a few roofs and crops.
Butler Co. 2NE David City	09	0050CST			0	0	4	1	Thunderstorm Wind  Strong winds uprooted trees and downed power lines 2 miles northeast of David City.
Fillmore Co. 3E Fairmont	09	0140CST			0	0	3	5	Hail (1.75)  One and three-quarter inch hail damaged crops 3 miles east of Fairmont. Other crop damage was reported in the county.
Gage Co. Beatrice	09	1400CST			0	0	3	1	Thunderstorm Wind (59)  Winds gusted to 69 m.p.h. at the Beatrice airport. Damage to trees in the area was reported.
Lincoln Co. North Platte	09	1810CST			0	0	5	4	Hail (1.75)  Hail of up to one and three-quarter inch diameter fell in North Platte, denting vehicle roofs and damaging crops and gardens.
Dundy Co. Benkelman	09	1810CST			0	0	4	4	Hail (1.75)  One and three-quarter inch hail fell around Benkelman, damaging crops and a few roofs.
Burt Co. Craig	09	2325CST			0	0	3	2	Thunderstorm Wind (61)  Wind gusts to 70 m.p.h. were reported at Craig with trees and power lines damaged.
Washington Co. Herman and Blair	09	2330CST			0	0	3	2	Thunderstorm Wind (52)  Winds gusted to around 60 m.p.h. at Herman and Blair, causing minor property damage.

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					KILLED	INJURED	PROPERTY	CROPS	

## NEBRASKA

Cherry Co. 7N Valentine	10	1805CST			0	0	2	2	Hail (0.75)	Three-quarter inch hail was reported 7 miles north of Valentine with minor damage.
Cherry Co. Valentine	10	1830CST			0	0	3	2	Hail (0.75)	Three-quarter inch hail fell in Valentine, causing minor damage.
Grant Co. Ashby	10	2125CST			0	0	2	2	Hail (0.75)	Three-quarter inch hail fell at Ashby. No damage was reported.
Cherry Co. Valentine	10	2309CST			0	0	3	2	Thunderstorm Wind (55)	Wind gusts to 65 m.p.h. were measured near Valentine. Only minor damage to property was reported.
Brown Co. 18S14W Ainsworth	10	2330CST	0.5	30	0	0	5	1	Tornado (F1)	A tornado touched down at Willow Lake 18 miles south and 14 miles west of Ainsworth, damaging cabins, blowing boats ashore and damaging satellite dishes.
Brown Co. 27SW Ainsworth to 20S Long Pine	10	2335CST- 2350CST			0	0	6	5	Thunderstorm Wind, Hail	Winds blew a garage 200 yards and a gain bin a quarter of a mile on a ranch 27 miles southwest of Ainsworth. Trees were blown down 25 miles south of Ainsworth, and 20 miles southeast of Ainsworth, windows were blown in in a home and trees and a TV antenna were downed. At 20 miles south of Long Pine, wind-driven hail broke out windows and damaged crops.
Rock Co. Bassett	11	0010CST			0	0	6	3	Thunderstorm Wind	Strong winds damaged the roofs of many homes, and downed trees and power lines in Bassett.
Boyd Co. Butte and Spencer	11	0100CST- 0120CST			0	0	6	6	Thunderstorm Wind (87), Hail (0.75)	Winds estimated 80 to 100 m.p.h. damaged building roofs, blew out windows, damaged outbuildings, and uprooted trees around Butte. A garden shed was destroyed and considerable tree damage was reported at Spencer, and 65 m.p.h. winds were reported at Lynch. Wind-driven hail to three-quarter inch in diameter damaged crops.
Holt Co. Stuart	11	0100CST			0	0	4	2	Thunderstorm Wind	Eighteen power poles were blown down north of Stuart.
Dawson Co. 4E Cozad	17	1615CST	0.5	40	0	0	5	2	Tornado (F1)	A tornado touched down 4 miles east of Cozad causing damage to two farms. A number of outbuildings were destroyed, trees were uprooted, and the roof of a farm house was damaged.
Dawson Co. 10N Cozad	17	1700CST			0	0	4	4	Thunderstorm Wind	Strong winds downed trees and damaged farm outbuildings and crops 10 miles north of Cozad.
Franklin Co. Naponee to Riverton	17	1900CST			0	0	3	5	Thunderstorm Wind	Strong winds and small hail caused heavy crop damage from around Naponee east to around Riverton.
Franklin Co.	17	2100CST			0	0	4	5	Flash Flood	Excessive rain of near 9 inches fell around Macon and 6 inches at Franklin. Flooding damaged crops, eroded soil, and washed out roads. Thompson Creek was pushed out of banks.
Lancaster Co. Lincoln	19	Afternoon			1	0	0	0	Heat	A man was found dead of heat stroke in a Lincoln park as the high temperature reached 96 degrees. M320.
Cherry Co. 26N Ashby	20	1915CST			0	0	2	4	Hail (1.75)	One and three-quarter inch hail was reported 26 miles north of Ashby with damage mainly to rangeland hay. Hail to various sizes accumulated up to one foot deep.
Cherry Co. 2N Crookston	23	1830CST			0	0	3	4	Hail (2.00)	Two-inch hail caused crop and some property damage 2 miles north of Crookston.
Cherry Co. 7N Nenzel	24	1125CST			0	0	4	4	Hail (2.75)	Two and three-quarter inch hail broke windows and damaged roofs and siding on ranch buildings 7 miles north of Nenzel. Crops also suffered damage.

## NEBRASKA

Cherry Co. 2N Kilgore	24	1130CST			0	0	0	0	Funnel Cloud	A funnel cloud was reported 2 miles north of Kilgore.
Pierce Co. Osmond	24	1447CST			0	0	3	4	Hail (1.75)	One and three-quarter inch hail damaged property and crops at Osmond.
Madison Co. Norfolk	24	1635CST			0	0	4	1	Thunderstorm Wind	Wind gusts blew down trees and power lines in Norfolk.
Stanton Co. 5NE Norfolk	24	1640CST			0	0	3	4	Hail (1.00)	One-inch hail damaged crops and some roofs 5 miles northeast of Norfolk.
Madison Co. Norfolk and Madison	24	1650CST			0	0	4	3	Thunderstorm Wind, Hail (0.75)	Three-quarter inch hail was reported in Norfolk and trees and power lines were blown down in Madison.
Boone Co. Albion	24	1655CST			0	0	5	2	Thunderstorm Wind	The roofs were blown off of several buildings and considerable tree damage was reported at Albion.
Cuming Co. Wisner and Bancroft	24	1710CST			0	0	4	2	Thunderstorm Wind	Winds caused considerable tree damage at Wisner and Bancroft.
Dakota Co. South Sioux City	24	1710CST			0	0	4	2	Thunderstorm Wind	Trees and power lines were damaged by strong wind gusts in South Sioux City.
Platte Co. Columbus	24	1720CST			0	0	3	1	Thunderstorm Wind	Wind gusts blew down trees in Columbus.

## 26 NEVADA

Humboldt County	01	1345PST			0	0	0	0	Hail (0.75)	An off-duty meteorological technician reported 3/4 inch diameter hail 3 miles southwest of Winnemucca. There were no reports of damage.
Carson City	01	1415PST			0	1	0	0	Lightning	A 42-year-old man was struck by lightning while seeking shelter from a thunderstorm under a large tree in central Carson City. The bolt passed from the tree through his right arm and torso, then exited to the ground via his left leg. It burned a 5 inch hole in his shirt, melted his left polyester sock, and split the sole of his shoe. It left him unconscious for a few minutes and paralyzed for about an hour. He received minor burns over his body, but no lasting injury.
Churchill County	01	1515PST			0	0	0	0	Hail (1.00)	One-inch diameter hail was reported by the public in Fallon. There were no reports of damage; however, there were power outages around the town that were associated with the thunderstorm activity.
NVZ001-003-004 Western Nevada	16	1200PST			0	0	3	0	High Winds	A strong, cold upper low digging into the state from the northwest kicked up winds over most of Nevada. The strongest winds were in the western part of the state during the afternoon. Verdi, 12 miles west of Reno, had gusts estimated at between 50 and 60 mph that uprooted a large tree. Reno had a peak gust of 44 mph and Winnemucca had one of 43 mph. The winds produced a dust storm along Interstate 80, 10 miles west of Fernley. Visibilities were reduced to zero which caused a few traffic accidents.
Nye County, 25 SW Mercury	16	1605PST	0.2	10	0	0	0	0	Tornado (FO)	An NWS spotter reported a small tornado moving east to west about 25 miles southwest of Mercury. The tornado's funnel was breaking up when it was spotted. The area is unpopulated, so no damage occurred.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

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					KILLED	INJURED	PROPERTY	CROPS	
<b>NEVADA</b>									
NV2003-004-005-006-007 Southern Two-Thirds of Nevada	17	0100PST			0	0	4	0	High Winds
					The cold upper low from the previous day remained over northeast California. As a result, strong winds blew over much of the southern two-thirds of Nevada. Peak gusts of 44 mph in Reno and 53 mph in Ely were recorded. Some damage such as signs that were blown down and shingles that were torn from roofs, was reported from around the state. Blowing dust occasionally reduced visibilities along roadways throughout much of the state.				
Clark County	28	1425PST			0	0	3	0	TSTM Wind (61)
					A spotter at the Cal-Nev-Ari airport south of Searchlight reported gusts of up to 70 mph and zero visibilities in blowing sand and dust. Brief heavy rains accompanying the storm produced localized street flooding. No major damage was reported.				
<b>27 NEW HAMPSHIRE</b>									
Cheshire Co. Keene	10	1500EST			0	0	2	0	TSTM Wind
					A severe thunderstorm produced winds that knocked down several trees.				
Carroll Co. Bartlett	10	1630EST			0	0	5	0	Lightning
					Lightning caused many fires and power outages. At the Christmas Mountain Condominiums, damages were estimated at \$400,000.				
Hillsborough Co. Goffstown	10	1815EST			0	0	2	0	TSTM Wind
					A severe thunderstorm produced winds that took down several trees, causing traffic disruptions.				
Cook Co. Lancaster and S. Whitefield	22	1700EST			0	0	4	0	Lightning
					Lightning struck a 25-pair cable leading to Mutual Aid Communications Facility in Lancaster. The cable was destroyed and backup communications had to be used for 1 1/2 days. A large oak tree on Middle Street in Lancaster was struck by lightning, causing limbs and branches to fall on several cars. In South Whitefield, one residence lost most of its electrical appliances when lightning traveled in from an electric fence to the household current entrance box.				
<b>28 NEW JERSEY, Northern</b>									
Hunterdon County	01	1830 EST			0	0	?	0	Thunderstorm Wind
					Severe thunderstorm with winds estimated at 100 mph, downed several large trees and power lines in Stockton, New Jersey. One 5 foot diameter tree fell on a house, completely destroying the structure.				
Middlesex County	08	2350EST			0	0	?	0	Hail (1.0) Thunderstorm Wind
					Severe thunderstorm moved across Monroe and Spotswood New Jersey. Monroe was hardest hit, with many trees and power lines down. At a shopping center, part of a roof was blown off along with an air-conditioning unit. One-inch hail fell at Spotswood.				
Monmouth County	09	0025EST			0	0	?	0	Thunderstorm Wind
					A severe thunderstorm downed numerous trees in a two block area in Freehold.				
Bergen and Passic Counties	09	1400 to 1500EST			0	0	?	0	Flash Flood
					Thunderstorms dumped very heavy rains across Bergen and Passic counties. At Garfield in Bergen County, 5.20 inches fell in one hour. Several cars in both counties were submerged due to the rapid runoff.				
Middlesex County	12	1650EST			0	0	0	0	Thunderstorm Wind
					Severe thunderstorm downed several trees in Hightstown.				
Morris and Essex Counties	14	1400 to 1430EST			0	0	?	0	Flash Flood
					Heavy rains, as much as 4 inches in a very short time, caused flash flooding in the towns of Chatham in Morris County and Orange, Bloomfield and Roseland in Essex County.				
Union County	14	1450EST	0.1	7	0	0	?	0	Tornado (FO)
					A small tornado touched down briefly in the western sections of Westfield, New Jersey. The damage was mainly confined to an area one block wide and about 3 blocks long. Numerous trees were downed and 15 to 20 residential structures were damaged.				
<b>NEW JERSEY, Northern</b>									
Middlesex County	14	1500EST	Short	7	0	0	0	0	Tornado (FO)
					A small tornado touched down near an industrial park just east of South Brunswick. It was only on the ground for about 10 seconds.				
Bergen County	14	1513EST			0	0	0	0	Thunderstorm Wind
					A severe thunderstorm downed several large trees in Garfield.				
Monmouth County	14	1517EST			0	0	?	0	Thunderstorm Wind
					A severe thunderstorm downed numerous large trees in the town of Roosevelt.				
Middlesex and Monmouth Counties	14	1530 to 1600EST			0	0	?	0	Flash Flood
					Heavy rains caused flash flooding in the towns of Piscataway in Middlesex County and Freehold, Marlboro and Manalapan in Monmouth County.				
Sussex County	19	1325EST			0	0	0	0	Hail (1.75)
					Golfball size hail fell at Vernon.				
Passaic County	19	1345EST			0	0	?	0	Thunderstorm Wind
					Severe thunderstorm downed several large trees and power lines in Newfoundland. Some homes were damaged.				
Morris County	19	1355EST			0	0	?	0	Thunderstorm Wind
					Severe thunderstorm downed several large trees in Butler.				
Passaic County	19	1415EST			0	0	?	0	Thunderstorm Wind
					Severe thunderstorm downed large trees and power lines in Wayne and Clifton.				
Essex County	19	1438EST			0	0	?	0	Thunderstorm Wind (G58)
					Severe thunderstorm downed large trees in West Orange and the wind gusted to 58 knots (67mph) at Newark Airport.				
Somerset County	24	2000EST			0	0	?	0	Thunderstorm Wind
					Severe thunderstorm downed large trees and power lines across sections of Somerset County.				
Warren County	26	1000EST	Short	10	0	0	?	0	Tornado (FO)
					A tornado touched down briefly at Blairstown. Several large trees and power lines were downed. The damage was mainly confined to the Gaisler Road and Mohicar Road intersection.				
Warren County	26	1000EST			0	0	?	0	Thunderstorm Wind (G78)
					At Blairstown Airport the wind gusted to 78 knots (90mph) before the anemometer broke. Two aircraft were damaged.				
Union County	26	1000EST			0	0	?	0	Thunderstorm Wind
					Large trees and power lines were downed across sections of Union County.				
Sussex County	26	1000EST			0	0	?	0	Thunderstorm Wind
					Large trees and power lines were downed across sections of Sussex County.				
Warren County	26	1015EST			0	0	?	0	Thunderstorm Wind
					Large trees and power lines were downed across sections of Warren County.				
Morris County	26	1025EST			0	0	?	0	Thunderstorm Wind
					Large trees and power lines were downed across sections of Morris County.				
Union County	26	1040EST	0.5	25	0	0	?	0	Tornado (F1)
					A tornado ripped through the town of Mountainside. Large trees and power lines were downed. Extensive damage was done to numerous homes and cars.				
Hunterdon County	26	1045EST			0	0	?	0	Thunderstorm Wind
					Large trees and power lines were downed across sections of Hunterdon County.				
Union County	26	1100EST			0	0	?	0	Thunderstorm Wind
					Large trees and power lines were downed across sections of Union County. Hardest hit were the towns of Summit and Kennelworth.				
Union County	26	1115EST			0	0	0	0	Hail (1.00)
					One-inch hail fell at Union Township.				

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

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	

## NEW JERSEY, Northern

Somerset County	26	1115EST			0	0	?	0	Thunderstorm Wind
Large trees and power lines were downed across sections of Somerset County. Some homes were damaged.									
Middlesex County	26	1130EST			0	0	?	0	Thunderstorm Wind
Large trees and power lines were downed across sections of Middlesex County. Some homes were damaged.									
Monmouth County	26	1130EST			0	0	?	0	Thunderstorm Wind
Large trees and power lines were downed across sections of Monmouth County. Some homes were damaged.									
Warren County	30	1405EST			0	0	0	0	Thunderstorm Wind
Large trees were downed across extreme northwestern Warren County.									

## 28 NEW JERSEY, Southern

Burlington County, 8 NW McGuire AFB	02	1730EST	1	66	0	0	5	0	Tornado (F1)
Minor to moderate damage was done to 15 homes where the tornado had touched down. Portions of roofs were off of most of them. A shed and a camper were also damaged, and many trees were downed.									
Mercer County	02	1800EST			0	0	4	0	Flash Flood
Heavy rain of up to 5 inches caused widespread roadway and other drainage flooding. Small stream flooding also occurred. One of these was the Shabukunk Creek which flooded an apartment complex in Ewing Township, just north of Trenton. The Assumpink Creek also flooded and was over flood stage from 11:30 pm EDT on the 2nd until 10:00 am EDT on the 3rd. The creek crested at 06:30 am EDT.									
Cumberland County, Port Norris	11	1315EST			0	0	?	?	Hail (1.75)
Golfball size hail was reported at Port Norris.									
Burlington County, Marlton	12	0200EST	1.5	10	0	0	3	0	Tornado (F1)
Numerous trees were uprooted and power lines were downed. The tornado's wind was estimated at 75 mph.									
Cumberland County, 3 W Bridgeton	12	1230EST			1	0	0	0	Lightning
Lightning struck and killed a girl as she was heading for cover when a storm interrupted harvesting on a farm. F170									
Camden County, Cherry Hill	12	1600EST			0	0	3	0	TSTM Wind
Strong thunderstorm winds downed power lines.									
Burlington County, Cinnaminson	12	1600EST			0	0	3	0	TSTM Wind
Strong thunderstorm winds brought down large tree limbs.									
Gloucester County, Woodbury	12	1600EST			0	0	3	0	TSTM Wind
Strong thunderstorm winds brought down large trees.									
Mercer County, Hightstown	12	1650EST			0	0	2	0	TSTM Wind
Thunderstorm winds brought down trees and tore off portions of roofs in the Hightstown and East Windsor areas. Heavy rain of up to 2.5 inches caused considerable roadway and other drainage flooding.									
Burlington County: Willingboro	14	1400EST			0	0	?	0	TSTM Wind (52)
Palmyra	14	1410EST			0	0	?	0	TSTM Wind (52)
Willingboro	14	1430EST			0	0	3	0	TSTM Wind
Thunderstorm wind gusts of 60 mph were reported in Willingboro and Palmyra at 03:00 pm EDT and 03:10 pm EDT, respectively. At around 03:30 pm EDT, wind gusts brought down large tree limbs and power lines in Willingboro.									
Salem County, 6 E Woodstown	14	1415EST			0	0	3	0	TSTM Wind
Thunderstorm winds downed a large tree and power lines.									
Mercer County, Trenton and Ewingville	14	1440EST			0	0	3	0	TSTM Wind, Flash Flood
Thunderstorm winds downed trees and power lines. Heavy rain caused flooding of streets and small streams. Shabukunk Creek flooded roadways and apartments, and washed out one bridge.									
Camden County, Lindenwold	14	1445EST			0	0	3	0	TSTM Wind
Thunderstorm winds downed tree limbs and power lines.									

## NEW JERSEY, Southern

Cumberland County: 8 W Vineland	14	1445EST			0	0	0	0	Funnel Cloud
Vineland	14	1445EST	?	?	0	0	?	?	Tornado (F0)
A funnel cloud aloft was reported just south of Centerton, which is near Parvin State Park. Simultaneously, a tornado was spotted by a farmer in the outskirts of Vineland.									
Burlington County, 3 NNE Pemberton and Chesterfield	14	1622EST			0	0	3	0	TSTM Wind
Thunderstorm winds brought down power lines and large tree limbs at Juliustown in Springfield Township and in Chesterfield in Chesterfield Township between 05:15 pm and 05:30 pm EDT.									
Cape May County, Ocean City	14	1630EST			0	0	3	0	TSTM Wind
Thunderstorm winds brought down power lines in Ocean City.									
Atlantic County, Linwood	21	1730EST	0.5	100	0	3	3	0	Tornado (F2)
A tornado skipped along a half-mile track, uprooting and snapping off trees and ripping out a brick wall. Hail was also reported. Three people received injuries.									
Mercer County, 8 NE Trenton	25	2330EST			0	0	3	0	TSTM Wind
A large tree and many large tree limbs were blown down by thunderstorm winds northeast of Trenton near Lawrenceville.									
Mercer County: 2.5 N Hopewell 1 N Princeton	26	1102EST			0	0	?	?	Hail (0.75)
	26	1115EST			0	0	2	0	TSTM Wind
Thunderstorm winds brought down large tree limbs just north of Princeton. Three-quarter inch diameter hail was reported near Hopewell.									
Burlington County: 3 SE Riverside 5 NE Burlington	26	1215EST			0	0	?	?	Hail (0.75)
	26	1238EST			0	0	3	0	TSTM Wind
Thunderstorm wind gusts pushed over one empty trailer, one small house trailer, and several trees in Roebling, which is northeast of Burlington. Dime size hail fell 1 to 2 miles southeast of Bridgeboro, which is to the southeast of Riverside.									
Salem County: Pennsville Quinton and Alloway	26	1458EST			0	0	3	0	TSTM Wind (61)
	26	1514EST			0	0	3	0	TSTM Wind
Thunderstorm wind gusts uprooted several trees and were measured at 70 mph at the Pennsville Municipal Building. Winds also downed power lines in the Quinton and Alloway areas.									
Burlington County, Greenbank	30	1450EST			0	0	?	?	TSTM Wind (52)
Thunderstorm wind gusts of 60 mph or more and small hail were reported.									
Ocean County: 4 W Tuckerton Manahawkin	30	1515EST			0	0	?	0	Hail (1.75)
	30	1600EST			0	0	?	0	TSTM Wind, Hail (0.75)
3 NW Manahawkin 2 SW Point Pleasant	30	1600-1700EST			0	0	4	0	TSTM Wind
	30	1640EST			0	0	3	0	TSTM Wind
Golfball size hail was reported west of Tuckerton at 04:15 pm EDT. Thunderstorm wind gusts of up to 60 mph and dime size hail were reported at Manahawkin at 05:00 pm EDT. Widespread utility lines and trees were downed in Stafford and Barnegat townships between 05:00 pm and 06:00 pm EDT. This area is approximately a 5-mile radius around a point 3 miles northwest of Manahawkin. Thunderstorm wind gusts also downed power lines southwest of Point Pleasant at 05:40 pm EDT.									
Mercer County, Hightstown	30	1635EST			0	0	?	?	Hail (1.00)
One-inch diameter hail was reported at Hightstown.									
Burlington County, Burlington	31	0249EST			0	0	3	?	TSTM Wind
Thunderstorm winds brought down power lines.									
Ocean County, Waretown	31	0300EST			0	0	3	0	TSTM Wind
Thunderstorm winds brought a tree down on a house in Waretown. Scattered utility lines were downed by wind in Ocean Township.									



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

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					KILLED	INJURED	PROPERTY	CROPS	
<b>29 NEW MEXICO</b>									
Curry and Roosevelt Counties (NMZ002)	01	0200MST			0	0	0	5	Hail (1.00-1.50)
									Sorghum, wheat, and small acreages of cotton were damaged by a hailstorm. The most significant damage occurred from Grady to Pleasant Hill in Curry County, and scattered damage occurred in Roosevelt County.
Luna County (NMZ009)	13	?			0	0	4	?	Thunderstorm Wind (50)
									High winds pushed over a few weaker structures just south and east of Deming.
Chaves County (NMZ003)	19	2205MST			0	0	0	0	Flash Flood
									Water ran across mostly rural roads south and east of Roswell along State Highways 172 and 31.
Bernalillo County (NMZ008)	20	1500MST			0	1	0	0	Flash Flood
									A woman was swept down an arroyo in Albuquerque before she could escape from her vehicle which was lifted and carried downstream by floodwaters. Another female passenger and her nineteen-month-old son were rescued just before the car was washed away.
Bernalillo County (NMZ008)	21	1730MST			0	0	0	0	Flash Flood
									A woman's car was swept down an arroyo in Albuquerque — the same arroyo mentioned in the entry above — as she tried to drive across it. She left the car just before it washed away. The car was found about one mile from the Rio Grande River under seven feet of water.
Dona Ana County (NMZ009)	22	1630MST	5	10	0	0	5	0	Tornado (F0)
									A tornado damaged several barns, uprooted trees, and destroyed some sheds. It occurred in the town of Garfield between Truth or Consequences and Las Cruces.
Bernalillo County (NMZ008)	24	1530MST			0	0	0	0	Flash Flood
									Heavy storms caused normally dry arroyos to fill up to 8 feet in depth in a short period in the Albuquerque metro area.
Luna County (NMZ009)	28	2021MST			0	0	0	0	Flash Flood
									The sheriff reported considerable street flooding that resulted from about one and a half inches of rain that fell in one hour.
<b>30 NEW YORK, Coastal — NONE REPORTED</b>									
<b>30 NEW YORK, Central</b>									
Dutchess County	08	1604EST			0	0	3	4	Hail (1.00)
	08	1604EST			0	0	5	0	Thunderstorm Wind
									Twenty thousand homes were left without power after a powerful thunderstorm rolled across the area. Hardest hit was the Spackenkill area of Poughkeepsie. The hail lasted for approximately 20 minutes. The winds were powerful enough to move large, wheeled garbage containers from a grass area, through a parking lot, to the opposite end of the parking area.
Tioga County	08	1630EST			0	0	2	4	Thunderstorm Wind
									Convective winds flattened a local corn and bean crop in Oswego. Three trees were also reported as blown over. Rain amounting to 1.10 inches fell during the brief but powerful storm. Power was also out for five hours because of downed power lines.
Ulster County: countywide	09	1530EST			0	0	5	4	Thunderstorm Wind
Goshen	09	1550EST			0	0	4	0	Flash Flood
									An explosive thunderstorm created havoc around Ulster County. Unofficial rainfall estimates of four to six inches were received following the hour-long thunderstorm. Rapid flooding along local streams and creeks in Middletown resulted. Some minor flooding was also reported in Wurtsboro, Sullivan County. Winds also took their toll, bringing down a 180-year-old historical tree at the "Historic" race track in the town of Goshen.
Saratoga County	09	1700EST			0	0	3	0	Thunderstorm Wind
									Trees were reported down in Schuylerville.
Tioga County	09	1700EST			0	0	3	0	Thunderstorm Wind
									Trees were reported down in Oswego.
<b>NEW YORK, Central</b>									
Ulster County	10	1605EST			0	0	5	2	Thunderstorm Wind
									Trees were uprooted in Ellensville during a violent thunderstorm. Power to 2500 homes was disrupted between 1650EST and 1700EST due to downed power lines.
Clinton County:									
West Chazy	10	2107EST			0	0	4	0	Thunderstorm Wind
Champlain	10	2115EST			0	0	5	0	Lightning
Champlain	10	2115EST			0	0	4	0	Thunderstorm
Dutchess County	11	1530EST			0	4	3	0	Heat
Dutchess County	11	1556EST			0	0	5	3	Thunderstorm Wind
Ulster County	11	1556EST			0	0	5	2	Thunderstorm Wind
									After days of oppressive heat, thunderstorms popped up in the lower Hudson Valley. One woman in East Fishkill, Dutchess County, and three men in Poughkeepsie were victims of heat stress. Thunderstorm winds brought down trees and power lines throughout the lower Hudson Valley. Hardest hit was the town of Ellenville, where 2100 homes had lost power.
Washington County	11	1600EST			0	0	5	0	Thunderstorm Wind
	11	1600EST			0	0	3	0	Lightning
									Thunderstorms ripped the tiny village of Ft. Edward apart. One home was demolished when a tree was uprooted and fell upon it. The same was true for a car near the Hudson River. One roof was blown off of its building which resulted in a local road being blocked off. One phone pole was hit by lightning which resulted in a minor fire.
Saratoga County	11	1627EST			0	0	4	0	Thunderstorm Wind
	11	1708EST			0	0	4	0	Thunderstorm Wind
									Trees were blown down in the northern portion of the county and high winds were reported in the town of Malta.
Chenango County	11	1730EST			0	0	4	0	Thunderstorm Wind
									Trees were blown down in the town of Bainbridge.
Delaware County	11	1805EST			0	0	3	3	Thunderstorm Wind
									Trees were downed in the northern portion of the county.
Saratoga County: Milton Center	12	1210EST			0	0	4	0	Thunderstorm Wind
Corinth	12	1220EST			0	0	4	3	Thunderstorm Wind
									Thunderstorm winds blew down trees in Milton Center; while in the town of Corinth, trees and power lines were blown down.
Putnam County	12	1700EST			0	0	5	0	Thunderstorm Wind
									Trees were blown down in the town of Brewster. Power lines were knocked down by strong winds in the towns of Greenwood Lake, West Milford, Pine Island, and Chester and in the Village of Tuxedo.
Chenango County	12	1900EST			0	0	4	0	Thunderstorm Wind
									Trees were reported down in Bainbridge.
Delaware County	12	1930EST			0	0	4	0	Thunderstorm Wind
									Trees were blown down in the town of Walton.
Herkimer County: Little Falls	13	1700EST			0	0	4	4	Thunderstorm Wind
Little Falls	13	1710EST			0	0	4	0	Lightning
									A fast-moving thunderstorm passed through the village of Little Falls on this Monday afternoon. Large trees were snapped off at their base and lightning hit a transformer. The thunderstorm also knocked down two power lines.
Oneida County	14	1300EST			0	2	6	0	Thunderstorm Wind
	14	1330EST			0	1	3	0	Lightning
									Ball lightning struck a home in which a furnace repairman was installing a new oil tank. The ball travelled through the house and down the stairs into the cellar. There it hit the oil tank and passed through the repairman to the ground. After climbing to the main floor and checking on the owner, the repairman passed out. EMT's stated that the man was lucky to be alive. When the repairman got home, he found his own home to be without power due to a lightning strike. Winds around Oneida County brought down trees and power lines. In one case a mobile home was crushed when a tree fell on it, injuring two residents slightly.
Delaware County: countywide	14	1600EST			0	0	4	0	Thunderstorm Wind
Sidney	14	afternoon			0	0	5	2	Flash Flood
									An afternoon thunderstorm produced heavy rains and strong gusty winds. The wind damage consisted of downed trees and power lines. Meanwhile, water from the flooded Weir Ravine tore up local roads and the Bendix Connector Plant in the village of Sidney. Also flooded was the public library. Local police took to patrolling on foot since police cruisers could not move through the flood area. The local fire department pumped out eight cellars.

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					KILLED	INJURED	PROPERTY	CROPS	
<b>NEW YORK, Central</b>									
Orange County	15	1403EST			0	0	5	0	Lightning
									Lightning struck a power station in Goshen, leaving 4400 powerless.
Dutchess County	15	afternoon			0	0	3	0	Hail (1.50)
	15	afternoon			0	0	5	3	Thunderstorm Wind
	15	afternoon			0	0	3	0	Lightning
									Hail and thunderstorm winds combined in bringing down trees and power lines between Poughkeepsie and Wappingers Falls. Hail stones the size of golf balls were reported in Poughkeepsie, while they were dime size in Wappingers Falls. Lightning also hit one power pole.
Dutchess County	16	early afternoon			0	0	3	3	Thunderstorm Wind
									An early afternoon thunderstorm with unofficial winds of 80 mph uprooted two-foot diameter oak trees.
St. Lawrence County:	18	1530EST			0	0	3	3	Thunderstorm Wind
Ogdensburg	18	1530EST			0	0	3	3	Thunderstorm Wind
Gouverneur	18	1755EST			0	0	4	2	Thunderstorm Wind
Stockholm	18	1759EST			0	0	3	0	Thunderstorm Wind
Dekalb	18	1810EST			0	0	2	0	Thunderstorm Wind
Gouverneur	18	1810EST			0	0	2	0	Thunderstorm Wind
									Trees and power lines were downed on Routes 11B, 812, and 58.
Saratoga County	18	2218EST			0	0	3	2	Thunderstorm Wind
	18	2220EST			0	0	4	0	Thunderstorm Wind
									High winds were reported in Stillwater. Damage consisted of downed large tree limbs and a downed ornamental tree. Pea size hail fell as well. In Clifton Park, downed tree limbs and power lines were also reported.
Albany County	18	2223EST			0	0	0	0	Thunderstorm Wind
									High winds were reported in the town of Colonie. Tree limbs and power lines were downed as a result of the winds.
Rensselaer County	18	2250EST			0	0	0	0	High Winds
									A wind gust of 40 mph was reported in Averville Park, while a wind gust of 43 mph was reported in Stephentown.
Orange County	19	1200EST			0	2	5	7	Hail (2.00+)
	19	1350EST			0	0	6	4	Thunderstorm Wind
									A very powerful thunderstorm hit the Pine Island area of Orange County. Hail with a diameter in excess of two inches was reported. Considerable damage was done to lettuce, corn, apple, and onion crops. Lifetime residents could not recall such violent thunderstorms in over 50 years. The large hail stones also did considerable damage to barns, farm equipment, and homes. Two persons were injured from the hail, both having received minor cuts. High winds were reported countywide.
St. Lawrence County	20	1800EST			0	0	4	3	Thunderstorm Wind
									Thunderstorms moved across St. Lawrence County. A storm especially created havoc in the city of Massena. Large trees and several power lines were brought down. One home in Massena had all of its front windows blown out.
St. Lawrence County, Ogdensburg	24	1535EST-1542EST	0.4	10	0	0	5	3	Tornado (F0)
									A small tornado touched down around the Black Lake Road section just outside of Ogdensburg. Damage consisted of an overturned mobile home and some minor damage to a small shed and farm equipment. Some damage also occurred to crops used for dairy feed. Approximately one and a quarter hours later, more thunderstorm activity moved into the area, producing about four to six inches of rain in about an hour. The intense rain was very localized and resulted in some drainage flooding in the immediate area.
Franklin County:	24	1615EST			0	0	5	0	Thunderstorm Wind
Malone	24	1630EST			0	0	4	0	Thunderstorm Wind
Brandon	24	1915EST			0	0	3	3	Thunderstorm Wind
Santa Clara	24	1915EST			0	0	4	0	Thunderstorm Wind
Tupper Lake	24	1915EST			0	0	4	0	Thunderstorm Wind
									Strong gusty winds brought down trees and power lines throughout Franklin County. A weather observer in Malone measured a wind gust of 43 mph at 1615EST.
Hamilton County	24	1920EST			0	0	5	3	Thunderstorm Wind
									High winds blew down trees and power lines in Lake Pleasant.
Herkimer County	24	1920EST			0	0	3	3	Thunderstorm Wind
									Strong winds took down trees and power lines in the town of Old Forge.
<b>NEW YORK, Central</b>									
Schoharie County:	25	1448EST			0	0	3	0	Hail (1.50)
Middleburg	25	1455EST			0	0	3	0	Hail (1.50)
Middleburg	25	1455EST			0	0	4	0	Thunderstorm Wind
Gallupville	25	1502EST			0	0	0	0	Hail (1.00)
Albany County:									
Knox	25	1502EST			0	0	0	0	Hail (1.00)
Westerlo	25	1530EST			0	0	3	0	Thunderstorm Wind
Columbia County:									
Kinderhook	25	1610EST			0	0	3	2	Thunderstorm Wind
Germantown	25	1815EST			0	0	5	0	Thunderstorm Wind
									A powerful thunderstorm moved into Schoharie and Albany counties during the late afternoon. High winds blew down trees in Middleburg, Schoharie County and Westerlo, Albany County. Hail was reported as golf ball size in many locations.
Osego County, Scheneyus	25	1700EST-1707EST	short ?		0	0	4	4	Tornado (F0)
Green County	25	1753EST			0	0	4	0	Thunderstorm Wind
Dutchess County, Amenia	25	1902EST-1910EST	70**	15	0	0	5	4	Tornado (F0)
									A small tornado touched down in the town of Scheneyus, bringing down trees in about a one acre area. Winds from the same thunderstorm downed power lines and trees in the town of Windham in Greene County. The same storm later produced a tornado in Amenia and severe wind damage in Millerton, both in Dutchess County. Unconfirmed reports also indicated possible activity in Berkshire County, Massachusetts and northwest Connecticut.
Ulster County:									
Slide Mountain	25	1750EST			0	0	1	0	Thunderstorm Wind
Saugerties	25	1820EST			0	0	3	0	Thunderstorm Wind
Saugerties	25	1935EST			0	0	3	0	Thunderstorm Wind
Saugerties	25	2230EST			0	0	3	0	Thunderstorm Wind
									Winds downed power lines in Saugerties and Slide Mountain.
Delaware County	25	1945EST			0	0	2	0	Hail (1.75)
									Large hail fell in the town of Walton.
Dutchess County:									
Rhinebeck	25	1945EST			0	0	3	0	Thunderstorm Wind
Hyde Park	25	2000EST			0	0	3	0	Thunderstorm Wind
5 N Poughkeepsie	25	2230EST			0	0	2	0	Thunderstorm Wind
Millbrook	25	2253EST			0	0	4	0	Thunderstorm Wind
									Trees and power lines were downed throughout the county.
Ulster County, New Paltz	25	2045EST			0	0	3	0	Thunderstorm Wind
Sullivan County	25	2235EST			0	0	4	0	Thunderstorm Wind
									Trees were reported down in the town of Monticello.
Essex County	25	2245EST			0	0	0	4	Thunderstorm Wind
									Trees were downed countywide from local thunderstorms.
Orange County	25	2302EST			0	1	7	0	Lightning
									A fast-moving thunderstorm hit Orange County at just about midnight EDT. Lightning bolts from the storm hit the county's Emergency Communications Center in New Windsor. Damage to the radio/phone system is extensive. One male who was on the phone suffered minor injuries.
Warren County	26	1500EST			0	0	4	3	Thunderstorm Wind
									Trees were reported down in Johnsbury.
Saratoga County:									
Corinth	26	1648EST			0	0	4	0	Thunderstorm Wind
Greenfield	26	1710EST			0	0	4	0	Thunderstorm Wind
									Trees and power lines were reported down.
Albany County, New Scotland	30	evening			0	3	4	2	Lightning
									A lightning bolt struck a tent with three girls in it. The three girls claimed not to have heard any thunder. The bolt first hit a tree, then travelled through the root system. One girl was sleeping over a root and the bolt followed the zipper of her sleeping bag, melting it as it moved along. The bolt then passed to the other two girls who were close by. All three girls suffered first and second degree burns.
Schenectady County	30	1715EST			0	0	5	3	Hail (1.50)
									Colfball size hail and larger was reported in Duanesburg. Local reports indicated that large tree limbs were blown down, trees were stripped of leaves, and scattered power lines were downed. Hail damage consisted of cracked windows, dented cars, and broken powerline insulators. Patches of hail were still visible four hours after the event.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>NEW YORK, Central</b>									
Albany County	30	1740EST			0	0	3	0	Hail (1.50)
									Golfball size hail was reported in Westerlo.
Greene County	30	1815EST			0	0	3	3	Hail (0.75)
									Hail was reported in Coxsackie and New Baltimore.
Dutchess County	30	2005EST			0	0	0	1	Hail (0.75)
									Hail was reported in the town of Millerton.
<b>30 NEW YORK, Western</b>									
Cattaraugus County	02	Morning			0	0	4	0	Rain
									Heavy rains caused road and basement flooding in towns of Hinsdale, Humphrey, and Allegany.
Monroe County	06	1930 EST			0	0	4	0	Rain & Hail (0.75)
									Heavy thunderstorms poured up to 3.25 inches of rain and caused some street flooding in Rochester. At midnight, a stop-gap dam in Chili (suburb of Rochester) failed. Water rushed into a subdivision, flooding basements and backyards of a dozen homes.
Oswego County	14	1130 EST			0	0	4	0	Lightning
									A lightning bolt ignited a house in Palermo.
Jefferson County:									
Carthage	18	1915 EST			0	0	4	0	TSTM Wind
Alexandria Bay	18	1915 EST			0	0	4	0	TSTM Wind
Clayton	18	1930 EST			0	0	4	0	TSTM Wind
Wellesley Island	18	2016 EST			0	0	4	0	TSTM Wind
Lewis County:									
Croghan	18	2018 EST			0	0	4	0	TSTM Wind
Beaver Falls	18	2038 EST			0	0	4	0	TSTM Wind
New Bremen	18	2038 EST			0	0	4	0	TSTM Wind
									Strong thunderstorm winds downed many trees and power lines in Clayton, Carthage, Lowville, Alexandria Bay, and Wellesley Island in Jefferson County and in Croghan, Beaver Falls, and New Bremen in Lewis County.
Erie County	20	0130 EST			0	0	4	0	Lightning
									Lightning severed power lines in Orchard Park, cutting electricity to 1900 homes for six hours.
Wayne and Cayuga Counties	23	1535 EST			0	0	4	0	TSTM Winds
									Strong winds uprooted trees and broke power lines in the towns of Wolcott, Red Creek, and Victory.
Jefferson County:									
Alexandria Bay	24	1845 EST			0	0	4	0	TSTM Wind
Clayton	24	1820 EST			0	0	4	0	TSTM Wind
Cape Vincent	24	1820 EST			0	2	4	0	TSTM Wind
Lewis County:									
Lowville	24	1830 EST			0	0	4	0	TSTM Wind
Glenfield	24	1845 EST			0	0	4	0	TSTM Wind
									Strong winds downed trees and power lines in Alexandria Bay, Jefferson County; and in Glenfield, Watson, and Lowville in Lewis County.
									Trees and power lines were downed by strong winds in Clayton and Cape Vincent. In Burnham State Park (near Cape Vincent), lightning slightly injured a man and a woman. A fallen tree damaged a trailer and a car. Lightning ignited a barn in Sackets Harbor.
Erie County	26	0400 EST			9	0	5	0	TSTM Wind, Rain
									Strong thunderstorm winds felled trees and power lines in the towns of Evans, Hamburg, Boston, Silver Creek, Orchard Park, Elma, West Falls, Springville, East Aurora, Wanakah, Angola, and Colden. Power outages affected South Buffalo. From 2 to 3 inches of rain fell and caused the Eighteenmile Creek to rise slightly above banks.
Genesee County	26	0445 EST			3	0	3	0	Lightning
									Three campers were killed while sleeping in their tents at Darien Lake, victims of a lightning strike. Scorch marks indicated that lightning first hit an aluminum pole of one tent, charred its two occupants, then arced to another tent six feet away and electrocuted another person. Lightning M170, M180, M200.
<b>NEW YORK, Western</b>									
Steuben County	26	0529 EST			0	0	3	0	TSTM Wind, Lightning
									Strong winds flipped a camping unit and damaged several others in the town of Tuscarora. A lightning bolt struck a small garage in Addison.
Niagara County	30	1349 EST			0	0	3	0	TSTM Wind
Genesee County	30	1410 EST			0	0	3	0	TSTM Wind
Erie County	30	1420 EST			0	0	3	0	TSTM Wind
Genesee County	30	1440 EST			0	0	4	0	Lightning
Livingston County	30	1500 EST			0	0	3	0	TSTM Wind
									Niagara Falls International Airport reported 53-knot winds and 1/2 inch hail. Alabama (Genesee County), Lakeville (Livingston County), and Akron (Erie County) reported downed trees.
									Lightning ignited houses in the towns of Alexander and Pembroke (Genesee County).
Cheektowaga, Erie County (6 miles east of Buffalo)	30	1530 EST	1.5	15-60	0	1	6	0	Tornado (F2)
									A funnel cloud touched down 2 miles southwest of the Buffalo International Airport and moved southeast, skipping 3 times. Five homes suffered heavy damages. Owners of 130 homes claimed minor damages.
Ontario County	30	1615 EST			0	0	3	0	TSTM Wind, Lightning
									Strong winds and lightning strikes knocked down trees and power lines in Canandaigua and East Bloomfield.
Wyoming County	30	1630 EST			0	0	4	0	TSTM Wind
									In the town of Eagle, strong winds tore the roof of a house and damaged the siding of another.
Allegany County	30	1756 EST			0	0	3	0	Hail (0.75)
Allegany County	30	1845 EST			0	0	3	0	Hail (0.75)
									Hail fell at Belmont and Belfast.
<b>31 NORTH CAROLINA</b>									
Wake Co. Holly Springs area	03	1535EST			0	0	4	0	TSTM Winds
Alamance Co. North-western	03	1942EST			0	0	?	?	TSTM Winds
									An isolated severe thunderstorm blew down trees and power lines in southern Wake County. There was also some damage to several homes and outbuildings and some windows were blown out. Trees were blown down by a storm in Alamance County.
Burke Co. Rutherford College	04	1618EST			0	0	3	0	TSTM Winds
									Trees, power lines, and outbuildings in a 1/8 mile path were damaged by thunderstorm winds.
Cumberland Co. 2 SW Fayetteville	05	1710EST			0	0	3	0	TSTM Winds
Catawba Co. Western	05	1800EST			0	0	?	?	TSTM Winds
Surry Co. Copeland	05	1930EST			0	0	3	5	TSTM Winds
									At the Fayetteville Generals baseball park, a 100 foot section of the advertising fence was blown down and parts of the stands were damaged by flying debris. 20 to 25 trees were snapped near the park. A few trees and power lines were blown down in western Catawba County, and numerous trees and power lines were blown down near Copeland. There, 20 acres of tobacco suffered extensive damage from the wind and small hail.
Hoke Co. near Dundarrach	07	1215EST			0	0	0	0	TSTM Winds
Scotland Co. Northern	07	1245EST			0	0	?	0	TSTM Winds
Scotland Co. Laurinburg	07	1317EST			0	0	3	0	TSTM Winds
Bladen Co. near Elizabethtown	07	1412EST			0	0	4	?	TSTM Winds
									Two trees were blown across a road in southeastern Hoke County. In northern Scotland County, trees blocked the roads preventing a fire department from responding to a lightning-related fire. This storm moved south into Laurinburg where several power poles and lines were blown down. The worst storm of the afternoon occurred across Bladen County. Much of the damage was concentrated near Elizabethtown. On one farm 3 large equipment sheds were destroyed along with the contents, including a tractor. Numerous trees and power lines were blown down across the area.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

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					KILLED	INJURED	PROPERTY	CROPS		
<b>— NORTH CAROLINA</b>										
Durham Co, Eastern Beaufort Co, Washington	08	1615EST			0	0	3	0	TSTM Winds	
	08	1750EST			0	0	2	0	TSTM Winds	
	Power lines were blown down in eastern Durham County, and 2 tree limbs were blown down in Washington causing a power outage.									
Surry Co, Lowgap Area	10	1400EST			0	0	3	?	TSTM Winds	
Iredell Co; Mooresville, Nrn. Lake Norman	10	1800EST			0	0	4	?	TSTM Winds, Lightning	
	Fences and gutters were blown down along with numerous trees in the Lowgap area. There were widespread and long-lasting power outages as a result of the damage from the wind. Similar damage was reported around the northern part of Lake Norman; also 7 cows were killed by lightning in that area.									
Carteret Co, Salter Path	11	0346EST			0	0	5	0	Lightning	
Wayne Co, GSB	11	1710EST			0	0	?	0	Hail(0.75)	
Wayne Co, Northeast	11	1730EST			0	0	?	?	TSTM Winds	
Wayne Co, North of Seven Springs	11	1745EST			0	0	?	?	Hail(0.75)	
Stokes Co; Danbury, Pinnacle	11	1920EST			0	0	?	?	TSTM Winds	
	A seafood restaurant at Salter Path was struck by lightning and burned. A severe thunderstorm developed near Seymour-Johnson AFB and produced large hail there. This storm gradually spread over most of eastern Wayne County. It blew down some trees and power lines in the northeast section of the county and continued to produce large hail. An isolated storm in Stokes County blew down trees near Danbury and Pinnacle.									
Wake Co; Cary, Raleigh	12	1330EST			0	0	4	0	TSTM Winds	
Richmond Co, Grenaco	12	1400EST			0	0	4	0	TSTM Winds	
Wake Co, Cary	12	1400EST			0	0	5	0	Lightning	
Columbus Co, Tabor City	12	1700EST			0	0	5	0	TSTM Winds	
Stanly Co, Albemarle	12	1830EST			0	0	4	?	TSTM Winds	
Catawba Co, Newton	12	2040EST			0	0	3	?	TSTM Winds, Hail(1.75)	
Catawba Co; Maiden, Conover	12	2055EST			0	0	3	?	Hail(1.75)	
	In Cary a canopy was blown off a store, and in Raleigh campers at a dealership were damaged by the wind. Lightning caused a number of house fires in Cary, and at least one home was destroyed (damage \$80,000). Barn roofs were blown off and numerous trees were blown down in southern Richmond County at Grenaco, near the South Carolina border. A barn was demolished, and several outbuildings were damaged at Albemarle by wind. There was widespread damage in Catawba County: the power was out for many hours as a result of the storm. By far, the worst storm of the day hit Tabor City in Columbus County. Many residents still believe a tornado hit the area, but a thorough on-site survey revealed no evidence of rotary wind. Winds were estimated well into the F1 category and caused damage to a couple of homes, several businesses, and a large warehouse. Late estimates placed the damage at over \$300,000.									
Catawba Co, Newton	13	1400EST			0	0	4	?	TSTM Winds	
Lincoln Co, 7 East Lincolnton	13	1430EST			0	0	4	?	TSTM Winds	
Gaston Co, Cramerton	13	1540EST			0	0	3	?	TSTM Winds	
Mecklenburg Co, near Huntersville	13	1600EST			0	0	0	0	TSTM Winds	
Union Co, Northeast	13	1620EST			0	0	?	?	TSTM Winds	
Mecklenburg Co, Charlotte	13	1624EST			0	0	3	0	TSTM Winds	
Wake Co, Raleigh	13	1630EST			0	0	0	0	Hail(0.75)	
Stanly Co, Western	13	1630EST			0	0	?	?	TSTM Winds	
Hoke Co, 1 1/2 SE Raeford	13	1915EST			0	0	?	?	TSTM Winds	
	A roof was blown off a service station at Newton in Catawba County. In Lincoln County, a barn was destroyed, a canopy blown off a store, and there was minor wind damage to some homes. Trees and power lines were blown down in Gaston County, and in northern Mecklenburg County. At Charlotte there was some structural damage to buildings at a construction site. An isolated storm produced large hail in Raleigh, and another storm caused some trees to be blown down in western Stanly County. Police estimated the wind at 75 to 80 mph in northeast Union County, and trees were blown across Highway 20 in Hoke County.									
Hertford Co, just S Murfreesboro	14	1305EST			0	0	?	?	Hail(0.88)	
Gates Co, 5 5 VA-NC Border	14	1315EST			0	0	0	?	TSTM Winds	
Gates Co, Northwest	14	1340EST			0	0	0	?	TSTM Winds	
	Large hail was reported south of Murfreesboro, and there were a couple of reports of large trees blown down in northwest Gates County. There were apparently two separate storms that moved through that area.									
<b>— NORTH CAROLINA</b>										
Columbus Co, Deico	15	1045EST			0	0	?	?	Hail(1.75)	
Brunswick Co, 10 NW Wilmington	15	1100EST			0	0	?	?	Hail(0.75)	
New Hanover Co, Wilmington	15	1138EST			0	0	0	0	Hail(1.75)	
Brunswick Co, Ocean Isle	15	1545EST			0	0	4	0	TSTM Winds	
	Severe thunderstorms developed around midday in coastal NC, and produced large hail at several locations. Later in the day, a severe storm caused some wind damage at Ocean Isle. Two tethered, light airplanes were flipped over at the airport. Nearby, numerous trees were blown down and a bank drive-in was damaged by the wind.									
Surry Co, Southeast	23	1600EST			0	0	?	4	Hail(1.75)	
Cabarrus Co, Concord to Kannapolis	23	1620EST			0	0	3	0	TSTM Winds	
Cabarrus Co, Kannapolis	23	1620EST			0	0	5	0	Lightning	
Davidson Co, High Rock Lake	23	1758EST			2	0	0	0	Lightning	
Davidson Co, near Thomasville	23	1800EST			0	1	0	0	Lightning	
Rowan Co, Northern	23	1800EST			0	0	?	?	TSTM Winds	
	In Surry County large hail destroyed 15 acres of tobacco worth \$25,000, and in northern Rowan County trees were blown down and there was quite a bit of related damage. The worst storms were in Cabarrus and Davidson counties. High winds from one of these storms caused numerous trees and power lines to fall from Concord to Kannapolis. In the southern part of Kannapolis, there was also some damage to a few homes - mostly to windows, gutters, and yards. Lightning struck a church and caused it to burn 500 feet south of the Rowan county line. Lightning also killed two people and injured another in Davidson County. Two brothers were taking refuge from the storm on an island in High Rock Lake. They, with their parents, had left their boat and were standing under some trees when the lightning struck. The parents were stunned but apparently not injured. A teenage boy was playing golf near Thomasville and was struck and injured by lightning. M190, M140, Lightning.									
Forsyth Co, Clemmons	24	1600EST			0	0	4	4	TSTM Winds	
	A landscaping business was hit hard by strong thunderstorm winds. Roofs of several large metal buildings were removed, a home and vehicles were damaged, and plants and crops at the business were severely damaged.									
Wake Co, near Wake	26	1630EST			0	0	0	0	TSTM Winds	
Hertford Co, Ahsokle	26	1827EST			0	0	?	?	TSTM Winds	
Northampton Co, Seaboard	26	2230EST			0	0	?	?	TSTM Winds	
Halifax Co, Weldon	26	2350EST			0	0	4	0	TSTM Winds	
	Some trees were blown down in Hertford County. Late night storms moved into Northampton and Halifax counties. At Seaboard most damage was to trees and power lines, but at Halifax about \$10,000 damage occurred to homes. Also, 2 trailers were moved off their foundations, and a number of trees were uprooted. At the junction of NC Highways 96 and 98 near Wake Forest in northern Wake County, there was a damage path of about 1/2 mile with trees blown down.									
Pitt Co, between Ayden and Grifton	27	1500EST			0	0	4	5	TSTM Winds	
Lenoir Co, Kinston	27	1530EST			0	0	4	0	TSTM Winds, Hail(0.75)	
Pitt Co, Eastern	27	1535EST			0	0	?	5	TSTM Winds	
Lenoir Co, B B Seven Springs	27	1545EST			0	0	4	5	TSTM Winds	
Craven Co, Vanceboro	27	1600EST			0	0	?	?	TSTM Winds	
Lenoir Co, S of Kinston	27	1600EST			0	0	4	5	TSTM Winds	
Beaufort Co, Chocowinity	27	1600EST			0	0	?	?	TSTM Winds, Hail(0.75)	
New Hanover Co, 2 N Wilmington	27	1600EST			0	0	3	0	TSTM Winds	
Onslow Co, Sneads Ferry	27	1700EST			0	0	4	0	TSTM Winds	
Jones Co, Wyse Fork area	27	1730EST			0	0	3	4	TSTM Winds, Hail(0.75)	
	Powerful thunderstorms affected much of eastern North Carolina during one of the busiest severe weather days so far in the season. Lenoir and Pitt counties seemed to be the hardest hit areas. Crop damage was extensive in Pitt County, and a good deal of property damage occurred at a high school near Grifton. The press box and a dugout at the ball field were damaged and several vehicles were blown into ditches in the county. More damage, mostly to crops, was noted in the eastern part of the county. Extensive property damage was reported all across Lenoir County. The first evidence of a very damaging storm came from Kinston where many trees and power lines were blown down. Water was waist deep in parts of town from urban flooding, and large hail also was observed. The storm lasted about 30 minutes in town. Meanwhile, another severe storm developed near the Wayne County border east of Seven Springs. This storm caused an area of downburst damage of about 1/2 mile wide and 1 mile in									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>NORTH CAROLINA</b>									
									length. Barns were blown down and crops were severely damaged - tobacco was completely stripped. This storm continued to south of Kinston where it again produced another area of damage. Communications were out, and numerous trees blocked roads because of wind estimated as high as 75 knots. Just north of Wilmington trees were blown down - one onto a house. In Onslow County one roof was damaged by the wind and a car wash was also damaged. Trees were blown down at Vanceboro and Chocowinity. In Jones county, near the Lenoir County line, trees were blown down and there was extensive crop damage from wind-driven hail.
Mecklenburg Co. Charlotte	27	2035EST			0	0	?	0	Hail(0.75), TSTM Winds
Union Co. N of Monroe	27	2110EST			0	0	?	?	TSTM Winds
Union Co. 10 S of Monroe	27	2134EST			0	0	?	?	TSTM Winds
Union Co. Monroe	27	2138EST			0	0	?	0	Hail(0.75)
									There were numerous reports of damage around the Charlotte area from 1950 EST until 2120 EST. Most of the damage was to trees and power lines. A police officer reported that a barricade was blown over his patrol car, and that wind-driven large hail lasted for several minutes. Trees were blown down at several locations in Union County and large hail was also reported.
Robeson Co. N of Lumberton	29	0900EST			0	0	3	4	TSTM Winds, Hail(1.75)
Montgomery Co. South	29	1515EST			0	0	?	?	Hail(1.75)
Anson Co. Ansonville	29	1559EST			0	0	?	?	TSTM Winds
									20 acres of tobacco was destroyed or damaged north of Lumberton by high winds and large hail. Several large trees were blown down. Large hail was reported in southern Montgomery County, and trees were knocked down at Ansonville.
Rutherford Co. Forest City	30	1800EST			0	0	3	0	TSTM Winds
									A mobile home was damaged, 900 customers were without power, and trees were blown down.
Edgecombe Co. 2 W Tarboro	31	1500EST			0	0	4	?	TSTM Winds
Pitt Co. Northern	31	1540EST			0	0	3	?	TSTM Winds
Nash Co. near Spring Hope	31	1600EST			0	0	?	?	TSTM Winds
Alamance Co. South-west	31	1839EST			0	0	?	?	TSTM Winds
Wilkes Co. North Wilkesboro	31	2130EST			0	0	4	0	TSTM Winds
									\$35,000 in damage was reported west of Tarboro when the wind from a storm blew down a large storage building. 5 to 10 trees were blown across the road near Spring Hope, and trees were blown down along Liberty Road in Alamance County. Numerous trees were blown down and there was some damage to buildings in North Wilkesboro.
NC2ALL. Statewide	All				0	?	6	?	Heat
									Hot humid weather began to take its toll on agricultural activities in the state. Hundreds of thousands of chickens were reported killed by the hot weather, especially in the coastal plain. There were also locations which had received little rainfall since May.
<b>32 NORTH DAKOTA</b>									
Richland County, 4S Fairmount	05	1225CST							Funnel Cloud
									A cold-air funnel cloud was sighted.
Emmons County	06	Afternoon			0	0	0	0	Lightning
									Lightning strikes caused grass fires. About 10 acres of grassland were destroyed.
Burleigh County, Arena	06	1625CST			0	0	0	0	Hail (0.75)
Wells County, Hurdsfield	10	1330CST							Funnel Cloud
Kidder County, 6NE Turtle	10	1400CST			1	0	0	0	Lightning
									A youth, moving cattle, was struck and killed instantly by lightning while he was walking in a pasture. A companion, who was walking beside him, was knocked down but uninjured. M170.
<b>NORTH DAKOTA</b>									
Grand Forks County, Grand Forks	16	2137CST			0	0	6	0	Hail (1.00), Tstm. Wind G56
									Wind gusts to 65 mph, along with 1-inch hail, occurred in the city of Grand Forks. The hail caused considerable damage to cars, especially those belonging to auto dealerships.
Grand Forks County, Grand Forks	16	2155CST			0	0	?	0	Hail (0.75)
Adams County, 8N Hettinger	19	1920CST			0	0	0	0	Hail (0.75)
Hettinger County, Regent	19	2007CST			0	0	0	0	Hail (1.75)
Sioux County; 21NE McIntosh, SD	19	2120CST							Funnel Cloud
Sioux County, Selfridge	19	2205CST, 2208CST			0	0	4	0	Hail (1.75), Tstm. Wind G52
									Golfball-sized hail occurred at Selfridge at 2205CST, and wind gusts to 60 mph occurred at Selfridge at 2208CST. Also, two inches of rain fell in 15 minutes. Basements and streets were flooded.
Sioux County; 5N McIntosh, SD	19	2245CST			0	0	0	0	Hail (1.50)
Sioux County, 8SW Selfridge	19	2300CST			0	0	0	0	Hail (1.00)
Emmons County, 5SW Strasburg	19	2330CST			0	0	5	5	Hail (1.75)
									Hailstones up to golfball size damaged strips of cropland throughout southern Emmons County.
Bowman County, Bowman	20	0015CST			0	0	4	4	Hail (1.75)
									Golfball-sized hail dented vehicles and other structures, and damaged surrounding cropland.
Bowman County, 4E Bowman	20	0035CST			0	0	?	?	Hail (1.00)
McIntosh County, Ashley	20	0052CST			0	0	5	5	Hail (2.00)
									Two-inch hail was reported in the town of Ashley. The hail damaged cropland north and northeast of Ashley.
Hettinger County, 4SE New England	20	0130CST							Funnel Cloud
Hettinger County, Mott	20	0140CST			0	0	6	6	Hail (1.75)
									The hail broke windows, damaged roofs, broke windshields, dented vehicles and stripped tree foliage in the town of Mott. The hail also damaged cropland throughout Hettinger County.
Hettinger County, 5SE Regent	20	0158CST			0	0	?	?	Hail (0.75)
Ransom County, Elliot	20	0200CST			0	0	4	0	Tstm. Wind
									Strong winds blew down a 30,000 gallon fertilizer tank, and broke off large tree branches.
Slope County, Amidon	20	0205CST			0	0	4	0	Hail (1.75)
Bowman County, Bowman	20	0230CST			0	0	?	?	Hail (1.75)
Grant County, 1S New Leipzig	20	0240CST			0	0	0	0	Hail (1.75)
Hettinger County, Mott	20	0300CST			0	0	?	?	Hail (2.50)
									Tennisball-sized hail was reported by a NWS river observer. The hail caused extensive damage to crops, gardens, buildings and cars.
Towner County, Egeland	20	0300CST			0	0	4	4	Tstm. Wind
									Strong winds, combined with very heavy rains, destroyed cattle barns and other farm structures. The storm also uprooted trees and damaged crops.
Adams County, Haynes	20	0330CST			0	0	0	0	Hail (0.75)
Richland County, 5SE Hankinson	20	0330CST			0	0	5	?	Tstm. Wind, Hail (1.75)
									Strong winds knocked down large trees and golfball-sized hail was reported.
Hettinger County, Mott	20	0345CST			0	0	?	?	Hail (1.75)
Burleigh County, 9S McClusky	21	1320CST			0	0	4	4	Hail (1.75)
									Golfball-sized hail broke windows and damaged crops.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED <sup>1</sup> DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>— NORTH DAKOTA</b>									
Sheridan County, Denhoff	21	1339CST			0	0	0	0	Hail (1.75)
Wells County, 4SE Sykeston	21	1400CST			0	0	5	5	Hail (1.75)
					Golfball-sized hail was reported by an observer for State Weather Modification. The hail damaged cropland throughout southern Wells County.				
Foster County, 6SW Carrington	21	1408CST			0	0	6	6	Hail (1.75)
					Golfball-sized hail was reported. The hail damaged vehicles and buildings, and damaged cropland throughout Foster County. In addition, lightning strikes damaged satellite dishes and killed cattle.				
Foster County, 3SW Carrington	21	1415CST- Short 5-15 1420CST			0	0	5	?	Tornado (F1)
					A tornado entered a farmyard gate, lifted, then descended on a quonset hut, ripping the door off. The tornado then moved towards a pole barn, lifted again, then came down on the barn, destroying the roof. Next, the tornado lifted a 2000 gallon cylindrical water tank and sent it rolling 1000 feet away.				
Foster County, Carrington	21	1421CST			0	0	4	0	Tstm. Wind G57
					Wind gusts to 66 mph occurred in the town of Carrington. The winds were accompanied by very heavy rains which flooded streets with water up to two feet deep.				
Stutaman County, SE Pingree	21	1440CST							Funnel Cloud
Griggs County, 5S Cooperstown	21	1520CST			0	0	?	?	Hail (0.75)
					Hail 3/4 of an inch in diameter was reported by an observer for State Weather Modification.				
Steele County, Hope	21	1602CST			0	0	6	6	Hail (2.00)
					Extensive crop damage occurred throughout Steele County from hail, heavy rains, and high winds. Sixty thousand acres of cropland were destroyed and damage has been estimated at four million dollars.				
Steele County, 10W Hope	21	1605CST							Funnel Cloud
Griggs County, 9W Cooperstown	21	1605CST			0	0	6	6	Hail (1.75)
					The hail was accompanied by very heavy rains. This combination caused about two million dollars worth of crop damage throughout Griggs County.				
Cass County, 1W Hunter	21	1620CST Short 5-15			0	0	4	0	Tornado (F1)
					A tornado touched down briefly and ripped grain bins from the ground. One bin bounced and rolled for two and a half miles before stopping in a neighbor's yard.				
Trails County, Clifford	21	1630CST			0	0	6	6	Hail (2.75)
					Widespread crop damage occurred over Trails County from hail, heavy rains, and high winds. About sixty thousand acres of cropland were destroyed, and damage was estimated at four million dollars.				
Trails County, Blanchard	21	1645CST Short 5-15			0	0	0	0	Tornado (F0)
					A tornado touched down briefly.				
Steele County, 10SE Cooperstown	21	1715CST			0	0	?	?	Hail (1.75)
					The large hail lasted for 30 minutes.				
Barnes County, 1NW Pillsbury	21	1720CST			0	0	?	?	Hail (1.75)
					The hail was accompanied by 1/2 inches of rain in 15 minutes.				
Senson County, 3N Warwick	21	1747CST Short 5-15			0	0	4	0	Tornado (F1)
					A brief tornado touchdown destroyed a barn and knocked down trees.				
Cass County, 3NW Argusville	21	1750CST Short 5-15			0	0	0	0	Tornado (F0)
					A tornado touched down briefly.				
Foster County, McHenry	21	1805CST			0	0	?	?	Tstm. Wind G52
Steele County, 2SW Colgate	21	1805CST			0	0	?	?	Hail (1.75)
Nelson County, Aneta	21	1830CST Short 5-15			0	0	5	0	Tornado (F0)
					A tornado touched down briefly and damaged outbuildings, uprooted trees, and flipped campers. Three and a half inches of rain occurred with this storm.				
<b>— NORTH DAKOTA</b>									
Steele County, Finley	21	1830CST			0	0	6	0	Tstm. Wind
					Strong winds blew down 80 ft. high towers at Finley, and also blew down power transmission structures throughout the county. Power outages were widespread.				
Griggs County, Binford	21	1830CST			0	0	5	0	Tstm. Wind
					Strong winds damaged cabins and overturned boats at a lake resort.				
Trails County, Blanchard	21	1830CST			0	0	5	?	Hail (2.50)
					The hail broke windows in the town of Blanchard.				
Griggs County, 5NW Cooperstown	21	1836CST Short 5-15			0	0	0	0	Tornado (F0)
					A tornado touched down briefly.				
Cass County, Fargo	21	1839CST			0	0	6	0	Tstm. Wind G60
					Wind gusts to 69 mph were recorded at the Fargo airport at 1839CST. The strong winds caused damage mostly in the north side of the city. The power lines were downed and trees toppled into power lines, homes, and vehicles. About 4,000 people were without power. The winds also destroyed barns and outbuildings in an area from rural Fargo and West Fargo, northward up to Harwood.				
Griggs County, 4S Aneta	21	1845CST to 1850CST	1	100	0	0	5	?	Tornado (F3)
					A tornado moved a farmhouse off its foundation and destroyed a barn and garage. The tornado moved to a neighboring farm and destroyed grain bins and barns. A woman was injured when she slipped on steps going into her basement shelter.				
Griggs County, 8N Cooperstown	21	1845CST			0	0	5	0	Tstm. Wind
					Strong winds uprooted trees and broke off power transmission line poles.				
Steele County, Finley	21	1845CST Short 5-15			0	0	5	0	Tornado (F0)
					A brief tornado touchdown resulted in uprooted trees and damaged buildings. A local lumberyard received considerable damage.				
Steele County, 1SW Sharon	21	1855CST Short 5-15			0	0	5	?	Tornado (F0)
					A brief tornado touched down and destroyed three grain storage buildings.				
Griggs County, 4NE Cooperstown	21	1900CST Short 5-15			0	0	5	?	Tornado (F0)
					A brief tornado touched down and destroyed a grain storage building.				
Trails County, Mayville	21	1915CST			0	0	5	?	Tstm. Wind G57
					The strong winds were combined with very heavy rains. This combination flooded Highway 200 east of Mayville and washed cars off the road. Nearby county roads were washed out.				
Wells County, 10S Hamburg	21	2010CST			0	0	4	4	Tstm. Wind G52
Wells County, 13E Fessenden	21	2015CST Short 5-15			0	0	0	0	Tornado (F0)
					A brief tornado touched down, but no damage was reported.				
Trails County, Hatton	21	2130CST			0	0	?	?	Tstm. Wind G52
Trails County, Hillsboro	21	2220CST			0	0	5	?	Tstm. Wind G61
Trails County, Mayville	22	0000CST			0	0	5	?	Tstm. Wind G55 Hail (1.75)
					Strong winds uprooted trees, destroyed mobile homes, and stripped billboards throughout the Mayville-Portland area. Golfball-sized hail damaged surrounding cropland.				
Cass County, Hunter	23	0105CST			0	0	4	0	Tstm. Wind
					Strong winds uprooted trees and tore the door off of a storage shed.				
Golden Valley County, 14SE Golva	31	1600CST			0	0	5	5	Hail (1.75)
					Golfball-sized hail damaged strips of cropland in southern Golden Valley County.				
Mercer County, Beulah	31	1850CST			0	0	0	0	Tstm. Wind G70
					Wind gusts to 80 mph were reported but damage was minimal.				

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

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					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	
<b>33 OHIO</b>											
Ashland, Crawford Marion, Morrow, and Richland Counties	01-02	Late Evening- Early Morning			0	5	7	7			Flash Flood
					Four inches of rain fell on parts of the area in less than 6 hours. The subsequent flooding was aggravated both by hilly topography and the fact that some locations in the area had already received up to 2 inches of rain from morning to evening on the 1st. The flooding forced evacuation of close to a 1000 people. About 80 fixed buildings and 70 mobile homes were destroyed. Approximately 500 fixed buildings suffered damage. Several bridges were washed out and many bridges and roads experienced some damage. Many crops in the affected area were wiped out. The worst problems were in Richland County, where 5 people were injured. Between them, the Richland County communities of Shelby and Bellville produced nearly 600 evacuees and suffered over 15 million dollars in losses.						
OH2002-004 Central Lakeshore and Northeast Inland Areas of Ohio	02	Early Morning			0	0	6	6			Urban and Small Stream Flooding
					Up to 3 inches of rain fell on the area. The subsequent flooding problems were aggravated by the fact that wet weather at the end of June had saturated soils in the area. Major problems with street and basement flooding developed. Flooded fields caused serious crop damage in some locations.						
OH2011 Marion County	02	0300 EST			0	0	5	5			Flood
					The Scioto River flooded at Prospect. The river crested at a stage of 14.0 feet (flood stage of 10.0 feet) at 1500 EST on the 4th, causing considerable damage to both residences and crops.						
OH2011 Marion County	02	0400 EST			0	0	2	?			Flood
					The Scioto River flooded at LaRue. The river crested at a stage of 12.8 feet (flood stage of 11 feet) at 1800 EST on the 2nd, causing only minor damage.						
OH2002 Cuyahoga County	02	1400 EST			0	0	0	0			Flood
					The Cuyahoga River flooded at Independence. The river crested at a stage of 17.8 feet (flood stage 16 feet) at 1900 EST on the 2nd. No damage occurred.						
OH2011 Wyandot County	03	0600 EST			0	0	3	3			Flood
					The Sandusky River flooded at Upper Sandusky. The river crested at a stage of 14.8 feet (flood stage 13 feet) at 1500 EST on the 3rd, causing some damage to low-lying crops and homes.						
OH2006 Pickaway County	03	0800 EST			0	0	2	?			Flood
					The Scioto River flooded at Circleville. The river crested at a stage of 16.4 feet (flood stage 14.0 feet) at 1300 EST on the 4th. Damage was fairly minor.						
Defiance County	05	1615 EST	1.3	60	0	0	4	0			Tornado (F0)
					A tornado struck about 1 mile west of Mey. Numerous trees and several buildings were damaged, but the storm was evidently not powerful enough to cause serious destruction.						
Defiance County	05	2000 EST			0	0	4	0			Thunderstorm Wind
					A thunderstorm downed trees north of Defiance.						
Hamilton County	06	1700 EST			0	0	4	0			Hail (1.75)
					A thunderstorm dropped large hail on Kenwood.						
Trumbull County	10	1715 EST			0	0	4	0			Thunderstorm Wind
					A thunderstorm blew down trees in Bristol.						
Trumbull County	10	1747 EST			0	0	4	0			Thunderstorm Wind
					A thunderstorm felled trees in the Johnston area.						
<b>OHIO</b>											
Mahoning County	10	1905 EST			0	0	4	0			Thunderstorm Wind
					Trees were downed by a thunderstorm in Struthers.						
Mercer County	11	1100 EST			0	0	4	0			Thunderstorm Wind
					A thunderstorm blew over seven utility poles and several trees in the Rockford area.						
Green County	11	After-noon			0	7	0	0			Lightning
					Seven people sitting under a tree suffered minor injuries when the tree was struck by lightning.						
Butler County	11	1300 EST			0	0	4	0			Thunderstorm Wind
					A thunderstorm knocked over trees in Fairfield Township and Middletown.						
Darke County	12	2035 EST			0	0	4	0			Thunderstorm Wind
					A thunderstorm downed trees east of Greenville and in Gettysburg.						
Mercer County	12	2130 EST			0	0	5	0			Thunderstorm Wind
					A thunderstorm overturned several boats and 20 to 30 trailers near Montezuma.						
Butler County	15	2000 EST			0	0	4	?			Hail (2.0)
					Large hail fell on Middletown and adjoining areas to the south. The fall was very extensive, covering the ground in many areas. Damage to lawn and gardens was considerable.						
Ashtabula County	25	0800 EST	.5	035	0	0	4	0			Tornado (F1)
					A tornado set down in North Kingsville. One house suffered significant structural damage, but otherwise damage was minor.						
Medina County	25	1520 EST	1.0	100	0	0	4	0			Tornado (F1)
					A tornado touched down approximately 6 miles northeast of the city of Medina. Damage was relatively minor since the storm struck in a rural area.						
Summit County	25	1540 EST			0	0	4	0			Thunderstorm Wind
					A thunderstorm felled trees between Twinsburg and Macedonia.						
Sandusky County	25	1605 EST			0	0	4	0			Thunderstorm Wind
					Trees were felled by a thunderstorm in the Fremont area.						
Lucas County	25	1630 EST			0	0	4	0			Thunderstorm Wind
					A thunderstorm downed trees throughout the county.						
Butler County	25	1728 EST			0	0	4	0			Thunderstorm Wind
					A thunderstorm felled several trees and toppled a crane in Oxford.						
Preble County	26	1730 EST			0	0	4	0			Thunderstorm Wind
					A thunderstorm blew over trees east of Eaton.						
Butler County	26	1753 EST			0	0	4	0			Thunderstorm Wind
					A thunderstorm blew down trees and power lines at several locations in the county.						
Clermont County	26	1805 EST			0	0	4	0			Thunderstorm Wind
					A thunderstorm felled trees at several locations and also overturned a car in Miamtown.						
Warren County	26	1805 EST			0	0	4	0			Thunderstorm Wind
					A thunderstorm downed trees at several locations.						
Hamilton County	26	1814 EST			0	0	4	0			Thunderstorm Wind
					A thunderstorm felled trees at numerous locations in the county.						
Lucas County	31	1620 EST			0	0	4	0			Thunderstorm Wind
					A thunderstorm blew down trees in Berkey.						
Fulton County	31	1630 EST			0	0	4	0			Thunderstorm Wind
					A thunderstorm toppled some trees in Seward.						

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

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					KILLED	INJURED	PROPERTY	CROPS	
<b>34 OKLAHOMA</b>									
Major County, 4 S Ames	02	0245CST			0	0	?	?	TSTM Wind
Washita County, Cordell	02	0255CST			0	0	4	?	TSTM Wind
Garfield County, Waukomis	02	0307CST			0	0	?	?	TSTM Wind (52)
Garfield County, Drummond	02	0315CST			0	0	?	?	TSTM Wind
Kingfisher County, Dover	02	0320CST			0	0	?	?	Hail (0.75)
Garfield County, 2 W Fairmont	02	0345CST			0	0	?	?	Hail (0.88)
Canadian County, W Yukon	02	0350CST			0	0	4	?	TSTM Wind
Oklahoma County, NW Oklahoma City	02	0421CST			0	0	?	?	Hail (0.88)
Garfield County, Woodring Airport	02	0430CST			0	0	?	?	TSTM Wind (62)
Fawcett County, Fawcett Airport	02	0430CST			0	0	?	?	TSTM Wind (52)
Oklahoma County, Nichols Hills	02	0445CST			0	0	?	?	TSTM Wind
Oklahoma County, N Oklahoma City	02	0445CST			0	0	?	?	Hail (0.75)
Garfield County, 2 W Fairmont	02	0500CST			0	0	?	?	Hail (0.88)
Cady County, Minco	02	0538CST			0	1	?	?	TSTM Wind (60)
Canadian County, Piedmont	02	0600CST			0	0	?	?	Hail (0.75)
Oklahoma County, SW Oklahoma City	02	0615CST			0	0	?	?	TSTM Wind
Canadian County, 1 S Union City	02	0620CST			0	0	?	?	TSTM Wind
Stephens County, Duncan	02	0625CST			0	0	4	?	TSTM Wind
Oklahoma County, Nrn. Oklahoma City	02	0630CST			0	0	?	?	Flash Flooding
Garvin County, Pauls Valley	02	0630CST			0	0	?	?	TSTM Wind
Murray County, Joy	02	0715CST			0	0	?	?	TSTM Wind
Carter County, Gene Autry	02	0730CST			0	0	?	?	Hail (0.75)
Murray County, Sulpher	02	0730CST			0	0	5	?	TSTM Wind, Lightning
<p>Thunderstorms produced winds up to 70 mph and hail up to the size of nickels across portions of western and central areas. Two wings, under construction, of a Cordell nursing home were blown down. Parts of roofs were taken off of a church and a restaurant in Yukon. A mobile home was overturned in Minco and a woman received minor injuries. A mobile home was overturned, windows blown out, and several outbuildings destroyed in Duncan. Many reports of trees uprooted, power poles and lines down, and minor roof damage were reported across a large area of the west and central sections. Heavy rain caused localized flash flooding in north Oklahoma City.</p>									
Garvin County, 3 E Wynnewood	03	1525CST			0	0	?	?	TSTM Wind (52)
Pontotoc County, 8 W Ada	03	1535CST			0	0	?	?	Hail (0.75)
Pontotoc County, 10 NW Ada	03	1538CST			0	0	?	?	TSTM Wind (55)
<p>Thunderstorms produced winds up to 65 mph and hail up to 3/4 inch across a small area of south central sections.</p>									
Blaine County, 5 N Geary	04	0005CST			0	0	4	?	Hail (1.75)
Canadian County, 8 NW Calumet	04	0025CST			0	0	4	?	Hail (2.50)
Grant County, Medford	04	0151CST			0	0	?	?	Hail (1.00)
Grant County, 1 S Jefferson	04	0220CST			0	0	?	?	Hail (1.25)
Garfield County, Garber	04	0230CST			0	0	?	?	Hail (1.00)
Grant County, Fond Creek	04	0350CST			0	0	?	?	Hail (0.88)
Garfield County, Garber	04	0415CST			0	0	?	?	TSTM Wind
Garfield County, Covington	04	0450CST			0	0	?	?	Hail (0.75)
Noble County, Perry	04	0500CST			0	0	4	?	TSTM Wind (56)
Payne County, Stillwater	04	0504CST			0	0	5	?	TSTM Wind (63)
Noble County, Morrison	04	0510CST			0	0	?	?	Hail (0.75)
Cherokee County, Tahlequah	04	0600CST			0	0	?	?	TSTM Wind
Grant County, 2 S Nash	04	0700CST			0	0	?	?	TSTM Wind (52)
Craig County, Vinita	04	0900CST			0	0	?	?	TSTM Wind
Creek County, Sepulpa	04	0915CST			0	0	?	?	TSTM Wind (52)
<b>OKLAHOMA</b>									
Rogers County, 4 S Inola	04	0945CST			0	0	4	?	TSTM Wind
Rogers County, Catoosa	04	1000CST			0	0	4	?	TSTM Wind
<p>Early morning thunderstorms produced up to 2 and 1/2 inch diameter size hail across north and central sections and strong winds across northern, central and northeastern areas. Many reports of trees, power lines and poles being downed were received. In Stillwater, several mobile homes were turned over, one landing on 4 automobiles. The wind blew out windows, and caused roof damage to many homes and businesses. The east side of Perry received damage to buildings and homes from strong winds also. Strong winds overturned two parked semi-trailers near Catoosa and destroyed two mobile homes south of Inola. Heavy rain also occurred with the storms across most of north and eastern sections. The strong winds also disrupted many campers who were out for the weekend. Tents were blown over in many areas.</p>									
Comanche County, Lawton	06	1600CST			1	0	0	0	Extreme Heat
<p>A 10-year-old boy was running during a period of high temperatures and high humidity. Doctors state that he expired from heat exhaustion. Heat M100.</p>									
Garfield County, 3 NNW Drummond	08	1615CST			0	0	?	?	Hail (1.50)
Major County, 4 S Ringwood	08	1647CST			0	0	?	?	Hail (1.00)
Garfield County, Enid - Vance AFB	08	1702CST			0	0	?	?	Hail (1.00)
Garfield County, Waukomis	08	1705CST			0	0	?	?	Hail (1.50)
Garfield County, Bison	08	1715CST			0	0	?	?	Hail (1.00)
Major County, 1 S Ringwood	08	1725CST			0	0	?	?	Hail (0.88)
Garfield County, Bison	08	1740CST			0	0	?	?	Hail (1.25)
Kingfisher County, 3 N Hennessey	08	1745CST			0	0	?	?	Hail (0.75)
Major County, 6 SE Ames	08	1837CST			0	0	?	?	Hail (1.00)
Garfield County, 5 S Drummond	08	1837CST			0	0	?	?	Hail (1.00)
Major County, 7 SW Orienta	08	1920CST			0	0	?	?	Hail (1.75)
Major County, 1 SE Bado	08	2020CST			0	0	?	?	Hail (1.00)
<p>Slow-moving thunderstorms produced hail up to pingpong ball size and rainfall of 2 to 4 inches across north-central sections. Some minor flooding occurred in low-lying areas.</p>									
Alfalfa County, 11 W Wakita	12	1515CST			0	0	?	?	Hail (0.88)
Major County, 10 NE Fairview	12	1530CST			0	0	?	?	Hail (0.88)
Grant County, 9 W Wakita	12	1530CST			0	0	?	?	Hail (0.88)
Major County, 1 S Cedar Springs	12	1550CST			0	0	?	?	Hail (0.88)
Alfalfa County, Goltry	12	1600CST			0	0	?	?	Hail (0.75)
Grant County, 5 WSN Wakita	12	1600CST			0	0	?	?	Hail (0.75)
Blaine County, 3 W Canton	12	1600CST			0	0	?	?	Hail (0.75)
Custer County, 3 S Aledo	12	1605CST			0	0	?	?	Hail (0.75)
Custer County, 3 S Aledo	12	1605CST			0	0	?	?	TSTM Wind (52)
Grant County, 15 S & 2 W Wakita	12	1620CST			0	0	4	?	TSTM Wind (61)
Blaine County, 2 N Canton	12	1630CST			0	0	?	?	Hail (1.75)
Custer County, 4 S Putnam	12	1645CST			0	0	?	?	Hail (0.75)
Blaine County, 2 N Canton	12	1650CST			0	0	?	?	Hail (0.88)
Major County, 3 S Cedar Springs	12	1700CST			0	0	?	?	Hail (0.88)
Blaine County, 3 N Canton	12	1700CST			0	0	4	?	TSTM Wind (61)
Blaine County, 4 E Canton	12	1700CST			0	0	?	?	Hail (0.75)
Dewey County, 2 S Taloga	12	1700CST			0	0	?	?	Hail (0.88)
Roger Mills County, Berlin	12	1710CST			0	0	?	?	Hail (1.75)
Beckham County, 5 N Erick	12	1717CST			0	0	?	?	Hail (0.88)
Dewey County, 1 S Taloga	12	1725CST			0	0	?	?	Hail (0.88)
Custer County, Arapaho	12	1800CST			0	0	?	?	Hail (0.75)



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

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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	

OKLAHOMA									
Custer County, Thomas	12	1830CST			0	0	?	?	Hail (0.75)
Washington County, Bartlesville	12	1830CST			0	0	?	?	TSTM Wind (52)
Washington County, 5 mi. NE Ramona	12	1845CST			0	0	?	?	TSTM Wind
Kay County, Ponca City	12	1920CST			0	1	4	?	Lightning
Grady County, Nrn. Pocasset	12	2115CST			0	0	?	?	TSTM Wind (61)
<p>Thunderstorms produced winds up to 70 mph and hail up to golfball size across northern sections of the state. Winds possibly greater than 70 mph blew down a dozen two-foot diameter trees just north of Canton, blocking Highway 51 for several hours. One mobile home was also overturned. Rainfall of 2 to 4 inches was reported in some areas, causing high water in low areas. Strong winds also destroyed several outbuildings and downed several trees, one of which fell on a house. Lightning struck a house, causing \$25,000 damage, in Ponca City. A woman who was inside the house received cuts and bruises and a fractured ear drum.</p>									
Texas County, Hough	14	1500CST			0	0	?	?	Hail (1.75)
Texas County, Goodwell	14	1515CST			0	0	?	?	Hail (1.75)
<p>A thunderstorm produced golfball size hail that smashed car windshields in Hough and Goodwell.</p>									
Jackson County, 5 SW Altus	17	1415CST			0	0	?	?	Hail (1.75)
Kiowa County, Snyder	17	1500CST			0	0	?	?	Hail (1.00)
Comanche County, Indianola	17	1508CST			0	0	?	?	TSTM Wind (61)
Comanche County, 8 NNE Cache	17	1520CST			0	0	?	?	TSTM Wind (61)
Comanche County, 6 W Medicine Park	17	1527CST			0	0	?	?	TSTM Wind
Kiowa County, Snyder	17	1529CST			0	0	?	?	Hail (1.00)
Tillman County, 3 S Snyder	17	1530CST	0.1	20	0	0	?	?	Tornado (F0)
Comanche County, 7 W Medicine Park	17	1548CST			0	0	?	?	TSTM Wind
Grady County, 5 S Chickasha	17	1615CST			0	0	?	?	TSTM Wind
Comanche County, Fletcher	17	1618CST			0	0	?	?	TSTM Wind
Caddo County, 10 SW Chickasha	17	1630CST			0	0	?	?	Hail (0.75)
Grady County, 7 SW Chickasha	17	1630CST			0	0	?	?	Hail (1.00)
McClain County, Dibble	17	1715CST			0	0	?	?	TSTM Wind
Grady County, Bradley	17	1734CST			0	0	?	?	TSTM Wind (63)
Pottawatomie County, Shawnee	17	1818CST			0	0	?	?	Hail (0.75)
McClain County, Purcell	17	1900CST			0	0	?	?	TSTM Wind (61)
Cleveland County, Lexington	17	1900CST			0	0	?	?	TSTM Wind
Canadian County, Union City	17	1939CST			0	0	?	?	Hail (1.50)
Grady County, Pocasset	17	1946CST			0	0	?	?	Hail (0.88)
Grady County, Pocasset	17	2001CST			0	0	?	?	Hail (0.88)
Grady County, Minco	17	2020CST			0	0	?	?	Hail (0.75)
Canadian County, Union City	17	2039CST			0	0	?	?	Hail (1.50)
Canadian County, 3 W Mustang	17	2045CST			0	0	?	?	Hail (1.00)
Canadian County, 3 W Mustang	17	2045CST			0	0	?	?	TSTM Wind (56)
Canadian County, Yukon	17	2110CST			0	0	?	?	TSTM Wind (56)
Oklahoma County, NW Oklahoma City	17	2150CST			0	0	?	?	Hail (0.75)
Oklahoma County, Oklahoma City	17	2207CST			0	0	?	?	Hail (1.25)
<p>Thunderstorms developed over southwest sections during the afternoon and moved northeastward across the state. Many reports of wall clouds and funnel clouds were received across southwest sections. One small tornado touched down briefly south of Snyder, doing no damage. Winds of 60 to 70 mph occurred at many locations, downing trees, power poles and lines. A cement truck was overturned near Fletcher and a sheriff's car was blown off of the road near Lawton. Wind also damaged roofs across the state and unroofed a store in Purcell. Hail ranging from dime size to silver dollar size fell at many locations.</p>									

OKLAHOMA									
Tulsa County, Sand Springs	18	0050CST			0	0	?	?	TSTM Wind
<p>Thunderstorm winds downed trees and power lines, causing a brief power outage in Sand Springs.</p>									
35 OREGON									
OR2005 Douglas and Jackson Counties	01	1300PST			0	?	6	?	Lightning
<p>High-level thunderstorms formed during the afternoon in southwest Oregon. Numerous lightning strikes started several fires in the Umpqua and Rogue River National Forests as well as in state and county lands. The largest of the fires lasted 4 to 5 days.</p>									
OR2008 Deschutes and Eastern Crook Counties	01	1700PST			0	0	?	?	Hail (0.75)
<p>Thunderstorms moved off of the Cascades during the early evening. Pea to marble size hail was reported along with 1 to 2 inches of rain in the Bend-Prineville-LaPine triangle. Damage was done to wheat fields. No flash flooding was reported.</p>									
Wamic, Wasco County (OR2007)	21	1700PST			0	0	?	5	Hail (0.75)
<p>Thunderstorms moved off of the Cascades during the evening. Three-quarter inch diameter hail and heavy rain pulverized 500 to 600 acres of wheat and alfalfa.</p>									
36 PENNSYLVANIA, Eastern									
Chester County, Spring City	02	1715EST			0	0	3	0	TSTM Wind
<p>Thunderstorm wind gusts uprooted several large trees and broke off portions of another. A cast iron stove was moved across a porch and a rain gutter on the same house was blown off and then over a neighboring house.</p>									
Bucks County	02	2000EST			0	0	5	0	Flash Flood
<p>Heavy rain fell between 6 pm and 9 pm EDT in amounts as high as 5 inches in some locations. Drainage flooding of roadways and other areas followed, as well as flooding of small streams. The Neshaminy Creek also flooded and was over flood stage at Langhorne from 11 pm EDT until 8 am EDT on July 3rd. Homes and businesses were flooded, and \$100,000 in damage occurred at one automobile dealership alone. Portions of some roads were washed out. In Yardley the heavy rain caused the Delaware Canal to overflow. Some flooding also occurred along the Pennypack Creek in Montgomery and Bucks counties.</p>									
Lancaster County, 2 NE Neffsville	08	1700EST			1	0	0	0	Lightning
<p>A man was killed by lightning as he was tying down his aircraft at the Lancaster County Airport. The lightning struck the pavement near him. M220</p>									
Luzerne County, Shavertown	09	1145EST			0	0	6	0	Flash Flood
<p>Heavy rains fell between Noon and 3 pm EDT at Shavertown, and totaled 4.77 inches. A one-hour total of 3.17 inches fell between 12:45 pm and 01:45 pm EDT. One hundred homes had water at least in the basement and 10 had water in the first floor. Some roadways were washed out, and guardrails and walls were undermined. The total damage was estimated at one million dollars.</p>									
Northampton County, 4 E Bethlehem	09	1430EST			0	0	3	0	Flash Flood
<p>Heavy rain caused flooding that washed an automobile into a canal. There also was considerable roadway and other drainage flooding from Bethlehem eastward to Easton.</p>									
Lycoming County, Picture Rocks	11	1745EST			0	0	3	0	TSTM Wind
Hughesville	11	1815EST			0	0	3	0	TSTM Wind
Linden	11	1945EST			0	0	3	0	TSTM Wind
<p>Thunderstorm wind gusts brought down trees and power lines at Picture Rocks and several large trees in Hughesville. Trees and power lines were also downed in Woodward Township near Linden.</p>									
Berks County, Reading	12	1330EST			0	2	4	0	Lightning
<p>Lightning struck and injured 2 men and also caused a fire that destroyed a garage.</p>									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	
<b>PENNSYLVANIA, Eastern</b>											
Monroe County, Long Pond	12	1400EST			0	0	?	0			Hail (0.75) Dime size hail was reported at Long Pond.
Lancaster County, Lancaster	12	1415EST			0	0	3	0			TSTM Wind Thunderstorm winds brought down trees in the city of Lancaster and also at locations just southwest and east of the city. Heavy rain farther east around Leola caused considerable roadway flooding.
Camberland County: 5 to 10 NW Carlisle 1 N Carlisle New Kingston Wormleysburg	12	1422EST			0	0	3	0			TSTM Wind Thunderstorm winds brought numerous trees down to the north and northwest of Carlisle. The roof was blown off of a trailer about one mile north of Carlisle. Trees and power lines were also downed around New Kingston and Wormleysburg.
Dauphin County, 1/2 W Harrisburg	12	1445EST			0	1	2	0			TSTM Wind Thunderstorm wind gusts brought down a tree that hit a man on City Island in the Susquehanna River.
Delaware County: 5 W Media Brookhaven	12	1500EST			0	0	3	0			TSTM Wind Thunderstorm winds brought down power lines, causing numerous power outages to the west of Media. Dime size hail was reported at Brookhaven.
Chester County: Coatesville New Garden	12	1515EST			0	0	3	0			TSTM Wind Thunderstorm winds brought down trees in Coatesville and power lines around New Garden. Heavy rain caused roadway flooding in Coatesville.
York County: Manchester York Newberrytown 2 N Mt. Wolf	12	1615EST			0	0	3	0			TSTM Wind Thunderstorm winds downed numerous trees in Newberrytown and York, in the east portion of Manchester, and between York Haven and Mt. Wolf. Almost the entire city of York was without power for a time.
Huntington County: Warriors Mark Spruce Creek Mooreville	13	1550EST			0	0	?	?			Hail (1.75) Thunderstorm winds brought down numerous trees and power lines at Spruce Creek. Hail of golfball size fell at Warriors Mark, and three-quarter inch diameter hail fell at Mooreville.
Centre County, Tusseyville	13	1645EST			0	0	3	0			TSTM Wind Thunderstorm wind gusts picked up a shed and carried it away into a field, destroying it. The winds also tore the aluminum cover off of a trailer door.
Eastern Pennsylvania to 26	19	0800EST			51	0	0	?			Heat Wave Temperatures climbed to 90°F or higher over most of Eastern Pennsylvania for 8 consecutive days. At least 51 heat-related deaths were reported, 50 of them in Philadelphia. Details on the individuals involved are not available, except that they were mostly elderly people. There were some crop losses due to the heat wave, but dollar value is not available.
Bucks County, 2 SE Langhorne	21	1540EST			0	0	4	0			TSTM Wind, Funnel Cloud, Hail (1.00) A funnel cloud was sighted near Langhorne, but it did not touch down. All of the damage, consisting of the tops of trees being broken off and some large trees being uprooted, was produced by straight-line winds. Numerous power lines were downed by the falling trees. Falling trees also caused minor damage to one house and one automobile. The damage path was two miles long and about two city blocks wide. Wind gusts were estimated at 65 mph. Hail of 3/4 to 1 inch diameter was also reported. The damage path was through portions of the boroughs of Langhorne Manor, Hulmeville and Pennel and in the north portion of Bensalem Township.
Bucks County, 2 NE Quakertown	25	2330EST			0	0	5	0			Lightning A lightning-caused fire destroyed a large dairy barn in Richlandtown Township. Also destroyed were dairy equipment, a large amount of hay, a large amount of straw, a large amount of soybeans, and 12 calves. The loss was estimated to be in the hundreds of thousands of dollars.
<b>PENNSYLVANIA, Eastern</b>											
Montgomery County, 5 ESE Pottstown	26	0630EST			0	0	5	0			Lightning Lightning caused a fire in an FAA Omni Range Radio Facility. The fire resulted in \$75,000 damage to the building and equipment.
Carbon County, Lansford and Summit Hill	26	0935EST			0	0	6	0			TSTM Wind (52), Hail (1.50) Hail of up to one and one-half inch diameter caused considerable damage to automobiles in the form of dents and cracked windows. Many windows were also broken in houses and other buildings. The damage to automobiles alone was estimated at \$200,000. Thunderstorm wind gusts also took portions of roofs off some houses. The total storm damage was estimated at \$500,000 of more.
Schuylkill County, Deer Lake	26	0945EST			0	0	3	0			Hail (1.75), TSTM Wind Thunderstorms dropped golfball size hail at Deer Lake, 7 miles southeast of Pottsville, and produced very strong winds.
Lehigh County, 1 NE Catasauqua	26	1028EST			0	2	3	0			TSTM Wind (52), Hail (1.75), Lightning Thunderstorm winds estimated at 60 mph uprooted trees and broke off limbs in Hanover Township about 3 miles north of the center of Allentown. Three-quarter inch diameter hail was also reported, and two men were injured by lightning when the shelter they were in on a golf course was hit.
Northampton County, Berlinsville	26	1028EST			0	0	3	?			Hail (0.75), TSTM Wind Very strong winds and 3/4 inch diameter hail were reported.
Bucks County, Riegelsville	26	1035EST			0	0	?	?			Hail (0.75) Three-quarter inch diameter hail was reported in Riegelsville, 12 miles northeast of Quakertown.
Berks County, Boyetown	26	1130EST			0	0	3	?			TSTM Wind, Hail (1.00) A thunderstorm produced very strong winds that brought down trees, and also dropped nickel size hail.
Franklin County, 2 N Waynesboro	26	1230EST			0	0	4	?			TSTM Wind (69) Thunderstorm wind gusts downed trees and tore off half of a barn roof. The roof was carried over a house, clipped the tops out of trees, and landed in a field 200 yards away. Marble size hail was also reported.
Northumberland County, Sunbury	26	1300EST			0	0	4	0			TSTM Wind Thunderstorm wind gusts brought down trees. A lightning strike knocked bricks off of the Municipal Building.
York County, Craley	26	1335EST			0	0	3	?			ISTM Wind Thunderstorm wind gusts brought down trees, and 1/2 inch diameter hail was also reported.
Lancaster County: Safe Harbor Safe Harbor	26	1340EST			0	0	3	?			TSTM Wind Hail (1.75) A thunderstorm dropped golfball size hail and produced wind gusts that downed numerous trees and wires around Safe Harbor. Trees were also down from Mt. Nebo to Wakefield and Little Britain. One tree fell on the roof of a house and caused some damage.
Monroe County, Stroudsburg	30	1400EST			0	0	3	0			TSTM Wind, Hail (0.75) A thunderstorm dropped dime size hail and produced winds that brought down large trees near the courthouse in Stroudsburg.
<b>36 PENNSYLVANIA, Western</b>											
Crawford County: Cambridge Springs (11 NE Meadville), Conneautville (13 NW Meadville), Linesville (13 W Meadville), and Titusville (25 E Meadville)	02	0600EST			0	0	4	0			Flash Flood Road flooding occurred at Cambridge Springs and Conneautville, a bridge was washed out at Linesville, and water from the swollen Church Run Creek ran 3 feet deep over roads in Titusville. Basement flooding also occurred.
Venango County, Cherry Tree (15 NE Franklin)	02	0600EST			0	0	3	0			Flash Flood Roads were closed north of Oil City in Cherry Tree Township due to flooding from Cherry Tree Run.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

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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	

## — PENNSYLVANIA, Western

Butler County, Summit and Jefferson Townships (4 SE Butler)	02 0600EST	0	0	2	0	Flash Flood	Roads were closed in Summit and Jefferson townships.
Cambria County, Barnesboro and Spangler Townships (24 N Johnstown), and Daleborough (1 E Johnstown)	06 2345EST	0	0	4	0	Flash Flood	A dozen families were evacuated from homes in Barnesboro and Spangler townships as Walnut Run and the West Branch of the Susquehanna River and Fox Run rose after 2 to 3 inches of rain fell. Basement flooding occurred in Daleborough.
Cambria County, West Taylor (5 N Johnstown)	07 0000EST	0	0	5	0	Lightning	A home was set ablaze and subsequently destroyed when struck by lightning.
Blair County, Sprout and Claysburg (17 S Altoona)	07 0250EST	0	0	4	0	Flash Flood	Water washed over bridges. Flooding of basements and yards occurred as Beaver Dam Creek and the Frankstown Branch of the Juniata River overflowed. Twelve homes were evacuated.
Butler County, Zelenople (13 SW Butler)	10 2045EST	0	0	0	0	Funnel Cloud	A funnel cloud passed near Zelenople.
Crawford County, Townville (14 E Meadville) and Gays Mills (9 E Meadville)	25 1430EST	0	2	0	0	Lightning	Two men were struck by lightning, one in Townville and one in Gays Mills. Neither was injured seriously.
Clarion County, New Bethlehem (14 S Clarion)	25 1715EST	0	0	0	0	Thunderstorm Wind	Trees were downed by thunderstorm winds.
Butler County, Zelenople (13 SW Butler)	25 1745EST	0	0	0	0	Thunderstorm Wind	Trees were downed by thunderstorm winds.

## 37 RHODE ISLAND

Washington County, Westerly and Ashaway	25 early afternoon	0	3	0	0	Lightning	Three persons were injured by a bolt of lightning while standing near a tree. All three complained of numbness and tingling sensations in their arms and legs and were transported to a local hospital.
Washington County, Ashaway	25 1330EST-1400EST	0	0	3	0	TSTM Wind (60)	Thunderstorm winds caused a 50 to 60 foot wide path of destruction, mostly to trees, in a small section of town.

## 38 SOUTH CAROLINA

Pickens County, Salem	01 1600EST	0	0	3	0	Lightning	Lightning struck the Salem water tower, causing a rupture that spilled 100,000 gallons of water.
Richland County, 2 NW Eastover	02 1930EST	0	0	3	0	TSTM Wind	The Elliot Farm 2 miles northwest of Eastover was hit by a severe thunderstorm. Winds tore the roof off of one building, damaged several others, and blew down a few trees.
Horry County, 6 W Myrtle Beach	03 1130EST	0	0	3	0	Lightning	Lightning struck the luggage rack of a moving car on Highway 501 near Myrtle Beach. The car's electrical system was heavily damaged. The driver was not injured.
Horry County, Conway	03 1140EST	0	0	3	0	Lightning	Lightning struck a substation in Conway, disrupting power to more than 1000 homes.

## — SOUTH CAROLINA

Barnwell County, Blackville	04 1645EST	0	0	3	0	TSTM Wind	Winds blew down trees in Blackville.
Greenville County, Moonville	05 1830EST	0	0	2	0	TSTM Wind	Winds damaged the roof of a Moonville store on US Highway 25.
Spartanburg County, Cowpens	05 2000EST	0	0	2	0	Lightning	Lightning caused power outages to 100 customers in Cowpens.
Dillon County, 2 W Dillon	05 2030EST	0	3	4	0	TSTM Wind	Thunderstorm winds destroyed one mobile home, damaged another, and caused other minor damage two miles west of Dillon on the east side of SC Highway 9. Three people were slightly injured.
Charleston County, North Charleston	06 1405EST 06 1415EST	0	0	4	0	TSTM Wind Hail (0.50)	Winds blew several large trees down and broke plate glass windows in North Charleston.
Allendale County, 7 W Allendale	06 1445EST	0	0	4	0	TSTM Wind	Thunderstorm winds blew down trees 7 miles west of Allendale, and also caused minor damage in Allendale.
Chesterfield County, 4 S Cheraw	07 1800EST	0	0	3	0	Lightning	Lightning killed 2 horses and injured another on the Anderson Farm 4 miles south of Cheraw.
Charleston County, Charleston	09 1400EST 09 1400EST	0	0	2	0	Hail (0.50) TSTM Wind	Small hail caused minor damage. Also, winds uprooted trees, disrupting electrical service and breaking windows.
Lexington County, 2 N Columbia Metropolitan Airport	11 1730EST	0	0	0	2	TSTM Wind	Winds blew down several large trees two miles north of the Columbia Metropolitan Airport.
Clarendon County, Alcolu and Gable Sumter County: Dalzell	12 1300EST 12 1300EST	0	0	3	0	TSTM Wind Lightning	Thunderstorm winds damaged trees and utilities in Gable and Alcolu. Lightning damaged utilities at Dalzell and Sumter, resulting in \$10,000 damage to a beverage store.
Sumter County: Santee	12 1300EST	0	0	4	0	Lightning	
Orangeburg County: Bowman	12 1330EST	0	0	3	3	Hail (0.75)	
Bowman	12 1330EST	0	1	0	0	Lightning	
Santee	12 1330EST	0	6	4	0	TSTM Wind	
Holly Hill	12 1330EST	0	0	4	0	TSTM Wind	Thunderstorm winds blew the roof off of the Holiness Church in Holly Hill. A woman was injured by lightning and hail was reported at Bowman. Winds overturned a mobile home at Santee, injuring 6 people.
Berkeley County, Lake Moultrie	12 1500EST	0	0	4	0	TSTM Wind (40)	Thunderstorm winds sank a cabin cruiser on Lake Moultrie in northwest Berkeley County.
Charleston County: James Island	12 1535EST	0	0	2	0	Lightning	
John's Island	12 1535EST	0	0	3	0	TSTM Wind	
Charleston	12 1535EST	0	0	3	0	TSTM Wind	
Charleston	12 1535EST	0	0	3	0	Hail (0.25)	A large area of thunderstorms moved across Charleston County. A home burned on James Island after being struck by lightning. A camper trailer was overturned by winds, large trees were downed, and small hail was reported west of the Ashley River in Charleston. Winds of up to 60 mph were reported on John's Island.
Beaufort County: Hilton Head Island	12 1730EST	0	0	3	0	Lightning	
Ladies Island	12 1730EST	0	0	3	0	TSTM Wind	Thunderstorm wind toppled trees and power lines, disrupting power along Sams Point Road on Ladies Island. Lightning also struck several homes and damaged computer and telephone equipment on Hilton Head Island.
Beaufort County, Hilton Head	12 1830EST	0	0	4	0	Lightning	Lightning knocked out telephone service to 8000 customers and caused a blaze at Queen's Grant Villas.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

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					KILLED	INURED	PROPERTY	CROPS	
<b>— SOUTH CAROLINA</b>									
Horry County, Socastee	13	1030EST			0	0	4	0	Lightning
			A lightning-caused fire burned a home in Socastee.						
Florence County, Florence	13	2000EST			0	0	2	0	TSTM Wind
			High winds uprooted large trees and damaged several roofs in Florence.						
Bartwell County, 2 W Blackville	14	0030EST			0	0	5	0	Lightning
			Lightning struck a tree about two miles west of Blackville, killing five pedigree cows that were nearby.						
Horry County, 11 S Conway	15	0930EST			0	0	4	0	TSTM Wind
			Winds damaged a mobile home, blew down several trees, and cut a path through pine tops near Bucksport about 11 miles south of Conway. The storm caused wind damage over a path that began at the Smart residence near Bucksport and continued 3 miles to the southeast.						
Horry County, North Myrtle Beach	15	1030EST			0	0	3	0	TSTM Wind
			In North Myrtle Beach, wind blew gravel from the top of the Blockade Runner hotel, damaging 16 cars in the parking lot.						
Horry County, Garden City Beach	15	1412EST			0	0	4	0	TSTM Wind
			Thunderstorm winds ripped part of a roof from a vacation home at Garden City Beach. Power lines were downed, and an automobile and small sail boat were damaged.						
Greenville County, Taylor	22	PM			1	0	0	0	Heat
			John P. Redman, a 69-year-old male, died of heat exhaustion as he was placing fans in the attic to cool his home in Taylor. The temperature in the attic was in excess of 100°F. M69P						
Laurens County, Clinton	23	1600EST			0	0	3	0	TSTM Wind
	23	1615EST			0	0	2	0	Hail (0.75)
			Considerable wind damage and hail occurred during afternoon thunderstorms in Clinton.						
Cherokee County, Blacksburg	23	1630EST			0	0	5	0	Lightning
	23	1630EST			0	0	4	0	TSTM Wind
			Thunderstorm winds downed trees in Blacksburg. Several houses were hit by lightning, and power to 3000 customers was disrupted.						
Cherokee County, Mount Parn	23	1645EST			0	0	4	0	TSTM Wind
			Thunderstorm winds damaged four barns near Mount Parn in northern Cherokee County.						
Newberry County, Newberry	24	1650EST			0	0	5	0	Lightning
			A lightning-set fire destroyed a home in Newberry.						
Laurens County, Gray Court	25	1735EST			0	0	3	2	Hail (0.75)
Spartanburg County, Inman	25	1800EST			0	0	3	0	Lightning
	25	1800EST			0	0	4	0	TSTM Wind
			Thunderstorm winds damaged the roof and blew the porch off of a gift shop in Inman. Also, a home on Windmill Road was set afire by lightning.						
Pickens County, Easley	25	1845EST			0	0	5	0	TSTM Wind
	25	1929EST			0	0	4	2	Hail (1.75)
			Wind and hail was reported in Easley and one mile southeast of Easley. Winds blew down many large trees, crushed roofs of several homes, and disrupted electrical service.						
Pickens County, Six Miles	25	1939EST			0	0	3	0	TSTM Wind
			Wind damage was reported in Six Miles.						
Williamsburg County, Hemingway	27	1512EST			0	0	4	5	Hail (0.75)
	27	1512EST			0	0	3	3	TSTM Wind
			Winds blew several large trees down, destroyed a barn, and flattened several acres of corn near Hemingway.						
Marion County, Marion	27	1525EST			0	0	3	0	Lightning
			Lightning hit a substation in Marion, causing a loss of power to 3000 subscribers.						
Sumter County, Dalzell	27	1530EST			0	0	3	0	TSTM Wind
			Wind blew the top off of a trailer near Dalzell.						
<b>— SOUTH CAROLINA</b>									
Clarendon County, Manning	27	1545EST			0	0	2	4	Hail (0.50)
	27	1545EST			0	0	4	0	TSTM Wind
			Thunderstorm winds blew down several trees on Brewington Road northeast of Manning. Hail destroyed several acres of tobacco and the wind damaged several farm buildings.						
Dillon County, Dillon	27	1705EST			1	0	0	0	Lightning
			Lightning struck and killed a 9-year-old boy riding a bicycle in Dillon.						
Berkeley County, between Cooper River and Huger	27	1820EST			0	0	2	0	TSTM Wind
	27	1820EST			0	0	3	0	Hail (0.75)
			Winds broke tree limbs and hail fell between Cooper River and Huger.						
Richland County, Columbia	28	1500EST			0	0	3	0	Lightning
			Intense cloud-to-ground lightning caused numerous power outages in Columbia.						
Charleston County, Charleston	28	1545EST			0	0	0	0	TSTM Wind
			Thunderstorm winds with gusts of up to 61 mph were reported.						
Beaufort County, Hilton Head	28	1830EST			0	0	4	0	Lightning
			Lightning set a home afire on Hilton Head Island.						
Chester County, Chester	29	1415EST			0	0	4	0	TSTM Wind
			Trees were blown down in Chester.						
Orangeburg County, between Cope and Gordova	29	1500EST			0	0	5	0	TSTM Wind
			Winds damaged a mobile home between Cope and Cordova. Also, more than 100 homes had lost power.						
Lexington County: Cayce	29	1530EST			0	0	4	0	TSTM Wind
	29	1715EST			0	0	2	0	TSTM Wind
			Thunderstorm wind blew down several large trees of between 90 and 100 feet in height in the Parkland area of Cayce. The diameter of the largest trees was about 4 feet. Extensive damage occurred to utilities in Cayce and West Columbia. Wind damage was also done to trees and a shed in South Congaree.						
Richland County: Columbia	29	1545EST			0	0	3	0	TSTM Wind
	29	1545EST			0	0	3	0	Hail (1.75)
	29	1615EST			0	0	3	3	TSTM Wind
			In Columbia, hail of up to 1.75 inches in diameter damaged cars and roofs, and thunderstorm winds blew down several trees on power lines and cars. Flags on State House were blown down as well. Wind also blew down trees and damaged roofs between Blythwood and SC Highway 34.						
Greenville County, Tigerville	30	2005EST			0	0	2	0	TSTM Wind
			Trees were downed in Tigerville.						
Spartanburg County, Lyman and Inman	30	2010EST			0	0	2	0	TSTM Wind
			Trees were downed in Lyman and Inman.						
<b>39 SOUTH DAKOTA</b>									
Devision County, Mitchell	01	1830 CST			0	0	0	0	TSTM Wind (55)
Hutchinson Co., 4NW Menno	04	1430 CST			0	0	0	0	Heavy Rain
			Eight inches of rain fell in about four hours.						
Deuel County, Gary	05	2130 CST			0	0	0	0	TSTM Wind (58)
Hyde County, 19S Highmore	06	1600 CST			0	0	3	0	Hail (2.75), TSTM Wind (52)
			A thunderstorm produced baseball size hail and strong winds in Stephan. Many windows were broken and large tree branches were downed.						

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>— SOUTH DAKOTA</b>									
Lyman County: SW Chamberlain	06	1600 to 1610 CST	.4	50	0	0	0	0	Tornado (F0)
SWSW Chamberlain	06	1602 to 1617 CST	.3	40	0	0	0	0	Tornado (F0)
		No damage was reported.							
Hughes County, 25E Pierre	06	1604 CST			0	0	0	0	Hail (1.75)
Lyman County: SNW Chamberlain	06	1615 to 1625 CST	1.0	100	0	0	?	?	Tornado (F1)
4SW Chamberlain	06	1617 to 1632 CST	.5	40	0	0	0	0	Tornado (F0)
		No damage was reported.							
Hyde County, 13SW Highmore	06	1620 CST			0	0	0	0	Hail (1.75)
Hand County, 19SE Highmore	06	1658 CST			0	0	0	0	Funnel Cloud
Hyde County, 19S Highmore	06	1707 CST			0	0	0	0	Hail (1.75)
Lyman County, 15S Stephan	06	1710 CST			0	0	?	?	Hail (2.50)
Hand County, 22SE Highmore	06	1715 CST			0	0	3	0	Hail (1.75)
Buffalo County, 2N Fort Thompson	06	1715 CST			0	0	0	0	Hail (1.75)
	06	1715 CST			0	0	0	0	Funnel Cloud
Lyman County: 7SW Fort Thompson	06	1715 to 1720 CST	0.1	20	0	0	0	0	Tornado (F0)
5SW Fort Thompson	06	1720 to 1725 CST	0.1	30	0	0	0	0	Tornado (F0)
4SW Fort Thompson	06	1725 to 1728 CST	0.2	30	0	0	0	0	Tornado (F0)
		Three tornadoes touched down briefly and no damage was reported.							
Buffalo County: 1W Fort Thompson	06	1726 to 1728 CST	0.1	20	0	0	0	0	Tornado (F0)
1SW Fort Thompson	06	1727 to 1729 CST	0.1	20	0	0	0	0	Tornado (F0)
		Two tornados occurred briefly. No damage was reported.							
Lyman County, 32NW Chamberlain	06	1730 CST			0	0	0	0	Funnel Cloud
Buffalo County, 7NW Gann Valley	06	1730 CST			0	0	3	0	TSTM Wind (60)
Lyman County, 13N Dacoma to 12N Dacoma	06	1740 to 1745 CST	1.0	75	0	0	3	?	Tornado (F1)
		A tornado occurred 13 miles north of Dacoma, breaking windows in a mobile home and removing it from its foundation. Other smaller buildings were damaged.							
Buffalo County: 1.8SW Fort Thompson to 8NW Shelby	06	1745 to 1805 CST	8	40	0	0	?	?	Tornado (F0)
SE Fort Thompson	06	1750 CST			0	0	0	0	Hail (1.75)
7SE Fort Thompson	06	1752 to 1754 CST	.5	30	0	0	0	0	Tornado (F0)
		Two tornados occurred and no damage was reported.							
Lyman County, 9.3NW Shelby	06	1752 to 1754 CST	.75	30	0	0	0	0	Tornado (F0)
Faulk County, Dnaka	06	1755 CST			0	0	3	?	Hail (1.75)
Hyde County, 20SE Highmore	06	1800 CST			0	0	4	3	Hail (4.5)
		Softball to softball size hail occurred for about an hour. Numerous windows and tree branches were broken and many crops were destroyed. The hail swath was about twelve miles long and several miles wide.							
<b>— SOUTH DAKOTA</b>									
Brule County, 1N Chamberlain	06	1807 CST			0	0	0	0	Hail (1.75)
Buffalo County, 7.3NW Shelby	06	1808 to 1810 CST	.1	20	0	0	0	0	Tornado (F0)
Brule County, 5S Chamberlain	06	1815 CST			0	0	0	0	Hail (1.75)
Lyman County, 3N Chamberlain	06	1830 CST			0	0	0	0	Hail (1.75)
Brule County, 12NW Kimball	06	1840 CST			0	0	0	0	Funnel Cloud
Jerauld County, Wessington Springs	06	1900 CST			0	0	2	0	TSTM Wind (52)
Hyde County, 22S Highmore	06	1910 CST			0	0	0	0	Hail (1.75)
Buffalo County, 5N Fort Thompson	06	1915 CST			0	0	0	0	Hail (2.75)
Jerauld County, 11SW Wessington Springs	06	1939 CST			0	0	0	0	Hail (.75)
Buffalo County, 1S Fort Thompson	06	2050 CST			0	0	3	?	Hail (2.5)
		A thunderstorm dropped tennis ball size hail that broke windows and destroyed crops.							
Miner County, 28NE Mitchell 21NE Mitchell	06	2104 CST			0	0	0	0	Hail (1.75)
Kingsbury County, 25W Badger	06	2145 CST			0	0	0	0	TSTM Wind (66)
		Thunderstorm winds caused damage to the siding on a house and blew a grain bin across the road.							
Hamlin County, 12SE Watertown	06	2205 CST			0	0	0	0	TSTM Wind (60)
Deuel County, 15SE Watertown	06	2208 CST			0	0	0	0	TSTM Wind (58)
Union County, 3N Alcester to 6.2E Alcester	07	0010 to 0823 CST	6	50	0	0	?	1	Tornado (F2)
		A tornado traveled from three miles north of Alcester, South Dakota to Hawarden, Iowa. The tornado damaged a farm near Hawarden along its eight mile path.							
Walworth County, Mobridge	07	1515 CST			0	0	0	0	Hail (1.75), TSTM Wind (50)
Walworth County, Mobridge	07	1530 CST			0	0	0	0	Funnel Cloud
Stanly County, 25W Pierre	07	1534 CST			0	0	0	0	Hail (1.0)
Jones County, 36SW Pierre	07	1545 CST			0	0	0	0	Hail (1.75)
		Softball size hail fell at Capa.							
Sully County, 30NE Pierre	07	1728 CST			0	0	0	0	TSTM Wind (54)
Lyman County, 14W Chamberlain	07	1730 CST	.5	50	0	0	3	0	Tornado (F1)
		A tornado destroyed a steel barn, a steel pole shed and a calf shelter.							
Hyde County, 19SE Highmore	07	1800 CST			0	0	0	0	Hail (.75)
Brown County, 3S Aberdeen	07	1815 CST			0	0	0	0	Funnel Cloud
Roberts County, Summit	07	2015 CST			0	0	4	?	TSTM Wind (64)
		Thunderstorm winds damaged buildings and crops, and toppled a radio-TV tower.							
Hutchinson Co., 2N Menno	07	2025 CST			0	0	4	0	TSTM Wind (60)
		Thunderstorm winds destroyed a grain elevator and damaged trees. A barn was heavily damaged, killing six sheep. A farm building was shoved off its foundation.							

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

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					KILLED	INJURED	PROPERTY	CROPS	
<b>— SOUTH DAKOTA</b>									
Codington County, 17N Watertown	09	2030 CST		0	0	3	0		TSTM Wind (66)
									Thunderstorms overturned a semi-truck on Interstate 29.
Yankton County, Irene	09	2125 CST		0	0	3	0		Hail (0.5)
Deuel County, 1SE Watertown	09	2130 CST		0	0	0	0		Funnel Cloud
Deuel County, Bemis to 2N Clear Lake	09	2130 to 2150 CST	8	50	0	0	?	?	Tornado (F0)
									No damage was reported.
Mellette County, Cedar Butte	10	1510 to 1512 CST	.1	20	0	0	0	0	Tornado (F0)
									No damage was reported.
Mellette County, Cedar Butte	10	1526 CST		0	0	3	0		Hail (2.5)
Stanley County: 25SW Pierre Hayes	10	1553 CST		0	0	0	0		Hail (1.75)
	10	1555 CST		0	0	0	0		Hail (2.75)
Jones County: Capa 40SW Pierre	10	1555 CST		0	0	0	0		Hail (2.75)
	10	1620 CST		0	0	0	0		Hail (1.0)
Sully County, 20NE Pierre	10	1645 CST		0	0	0	0		Funnel Cloud
Stanley County, 30W Pierre	10	1649 CST		0	0	0	0		Hail (2.75)
	10	1705 CST		0	0	0	0		Hail (1.75)
Edmunds County, Ipswitch	10	1920 CST		0	0	0	0		TSTM Wind (70)
Brown County: Westport 5N Aberdeen 5NW Aberdeen	10	1920 CST		0	0	0	0		TSTM Wind (52)
	10	1940 CST		0	0	0	0		Funnel Cloud
	10	1955 CST		0	0	0	0		TSTM Wind (52)
Lake County, Madison	11	0100 CST		0	0	2	0		TSTM Wind (52)
Douglas County, 6W Delmont	11	0130 CST		0	0	2	0		TSTM Wind (70)
Charles Mix Co.: Lake Andes 8E Lake Andes	11	0130 CST		0	0	4	0		TSTM Wind (70)
	11	0140 CST		0	0	3	0		TSTM Wind (64)
									Severe thunderstorm winds blew over and destroyed a mobile home. Several buildings were heavily damaged. Several trees were uprooted.
Brookings County, 1NE Volga	11	0200 CST		0	0	3	0		TSTM Wind (70)
									Thunderstorm winds tore the top off of a silo and damaged other farm buildings.
Bon Homme County, Springfield	11	0200 CST		0	0	0	0		TSTM Wind (64)
Hutchinson Co., Parkston	11	0200 CST		0	0	6	4		TSTM Wind (78)
									Downburst winds produced a damage path about twenty-four miles long extending from six miles west of Parkston to near Alexandria. Several farm buildings and houses were heavily damaged. Two small airport hangars, a small airplane and several small sheds were destroyed. Numerous trees were blown over or uprooted. About forty telephone poles were destroyed.
McCook County, Canistota	11	0240 CST		0	0	0	0		TSTM Wind (70)
Minnehaha Co., 3NW Dell Rapids to 3NE Dell Rapids	11	0302 to 0317 CST	5	100	0	0	4	2	Tornado (F2)
									A tornado occurred near Dell Rapids in northern Minnehaha County, about 302 CST, moved east and ended three miles northeast of Dell Rapids. Barns, silos and small sheds, some of which were lifted, were heavily damaged. Several trees were twisted and destroyed.
Clay County, Vermillion	11	1430 CST		1	0	0	0		Lightning
									Lightning killed a man while he was operating farm equipment. M600.
<b>— SOUTH DAKOTA</b>									
Minnehaha County, Dell Rapids	11	1515 CST		0	0	0	0		TSTM Wind (52)
Stanley County: 38W Pierre 5W Pierre 3S Oahe Dam	11	1615 CST		0	0	0	0		TSTM Wind (54)
	11	1630 CST		0	2	3	2		TSTM Wind (54)
	11	1630 CST		0	0	3	0		TSTM Wind (64), Hail (1.75)
Fort Pierre	11	1643 CST		0	0	4	4		TSTM Wind (68)
									Two people were injured when a large truck was blown over by thunderstorm winds at Fort Pierre. The winds damaged houses, mobile homes and 2500 acres of crops. Several trees were uprooted and one camper trailer was destroyed.
Hughes County, Pierre	11	1643 CST		0	0	0	0		TSTM Wind (70)
McCook County, Salem	11	1830 CST		0	0	3	4		TSTM Wind (60), Hail (1.75)
									Severe thunderstorm winds and hail destroyed a grain bin and 600 acres of crops. Several windows in a church were broken and many other buildings were damaged. Several trees were uprooted.
Hutchinson Co., SSE Menno	11	2000 CST		0	0	3	0		TSTM Wind (56)
									A garage was destroyed by thunderstorm winds.
McCook County, 10E Salem	11	2001 CST		0	0	0	0		Hail (1.75)
Yankton County, 6W Yankton	11	2020 CST		0	0	0	0		Funnel Cloud
Clay County, Irene	11	2025 CST		0	0	0	0		TSTM Wind (52)
Haakon County, Milesville	10	0700 CST		0	0	0	0		Heavy Rain
									Heavy rains produced 6.24 inches of rain from 400 AM CST to 700 AM CST.
Fall River Co., Battle Mountain	19	2030 CST		0	0	?	0		Lightning
									Lightning struck a forest area, burning 2200 acres.
Corson County: 1W Morristown McIntosh 11SE McIntosh	19	2215 CST		0	0	3	4		Hail (1.75)
	19	2245 CST		0	0	0	?		Hail (1.5)
	19	2320 CST		0	0	0	0		Funnel Cloud
									Thunderstorms produced a three-mile-wide hail swath that extended from near Thunderhawk to McLaughlin. Several acres of crops were destroyed and windows in houses were broken.
Lyman County, Kennebec	20	1815 CST		0	0	0	0		Hail (1.5)
Beadle County: 13NW Huron 1S Huron	20	1830 CST		0	0	0	0		Hail (2.00)
	20	1900 CST		0	0	0	0		TSTM Wind (56)
Hamlin County, Castlewood	20	1940 CST		0	0	2	0		Lightning
									Lightning struck a house, burning an outlet and destroying the phone and cable connections.
Kingsbury County, 3SE Huron	20	1958 CST		0	0	2	0		TSTM Wind (50)
									Thunderstorm winds blew down power lines and trees.
Harding County, Harding	21	2155 CST		0	0	0	0		TSTM Wind (63)
Pennington Co.: 10NE Rapid City 2W Rapid City	22	1545 CST		0	0	3	0		Hail (.75)
	22	1643 CST		0	0	0	0		Hail (1.75)
Ziebach County, 1W Isabel	22	1955 CST		0	0	0	0		Hail (.75)
Corson County: 1S Morristown 1W McIntosh	22	2010 CST		0	0	0	0		Hail (2.5)
	22	2015 CST		0	0	0	0		Funnel Cloud
									A thunderstorm produced golfball to tennis ball size hail that damaged automobiles, crops and windows.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

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					KILLED	INJURED	PROPERTY	CROPS	
<b>— SOUTH DAKOTA</b>									
Dewey County: 1W Isabel	22	2025 CST			0	0	0	0	Hail (.75)
10SW Timber Lake	22	2035 CST			0	0	3	?	Hail (2.5)
									Thunderstorms produced golf ball to tennis ball size hail destroying several acres of crops, breaking windows in houses and damaging a camper roof.
Potter County, 9W Haven	22	2125 CST			0	0	0	0	Hail (.75)
Walworth County, Hobridge	22	2130 CST			0	0	4	0	TSTM Wind (60)
									Thunderstorm wind destroyed the roof of a sewage treatment plant and damaged other smaller buildings.
Dewey County, 25SW Hobridge	22	2219 CST			0	0	0	0	Funnel Cloud
Campbell County, 8W Glenham	22	2330 CST			0	0	4	0	Lightning
									Lightning struck and burned a house.
Meade County, 9NE Rapid City	23	1530 CST			0	0	0	0	Hail (.75)
Fennington Co., Rapid City	23	1540 CST			0	0	0	0	Hail (.75)
	23	1647 CST			0	0	0	0	Hail (1.75)
Bon Homme County: 1W Avon	24	1500 CST			0	0	0	0	Hail (1.75)
Tyndall	24	1615 CST			0	0	0	0	Hail (1.0)
Jackson County: Kadoka	24	1730 CST			0	0	3	0	Lightning
Long Valley	24	1800 CST			0	0	3	3	Hail (2.75)
									Lightning killed three cows and damaged a house. Thunderstorms produced baseball size hail damaging crops and windows on vehicles.
Pennington Co., 25W Rapid City	25	1930 CST			0	0	3	0	Lightning
									Lightning struck a forest, burning twelve acres.
Meade County, Sturgis	26	1835 CST			0	0	1	0	Lightning
									Lightning struck a house and minor damaged occurred.
Deuel County, 7W Clear Lake	29	1640 CST			0	0	3	0	TSTM Wind (68)
									Thunderstorm winds blew down wind mills, two hay sheds, and trees.
Perkins County: 9SW Lemmon	31	1730 CST			0	0	1	0	TSTM Wind (52)
Lemmon	31	1740 CST			0	0	0	0	Hail (1.75)
12S Lemmon	31	1740 CST			0	0	2	0	TSTM Wind (54)
Dewey County, 6S Timber Lake	31	1900 CST			0	0	1	0	TSTM Wind (54)
Potter County, Gettysburg	31	2230 CST			0	0	4	?	TSTM Wind (62)
									Thunderstorm winds destroyed an outdoor theater screen and two granaries. Vehicles and roofs were damaged.
<b>40 TENNESSEE</b>									
Sullivan County	03	1430EST			3	0	0	0	Lightning
									Lightning struck and killed three golfers at Warriors Path State Park Golf Course just east of Kingsport. The trio had attempted to find shelter from the storm under a tall tree, situated on a small hill. M520, M360, M250
Grainger County	03	2030EST- 2130EST			0	0	0	4	Thunderstorm Wind and Hail
									Strong thunderstorm winds and hail combined to damage tobacco and tomato crops in scattered sections of the county. Trees and limbs were felled over a wide area of the county, some of which briefly blocked Highway 11W just north of Blaine.
Cocke County	03	Evening			0	0	4	0	Lightning
									Lightning started a fire which destroyed a barn (loss: \$25,000) off of Cosby Highway.
<b>— TENNESSEE</b>									
Gibson County	04	Evening			0	0	3	0	Thunderstorm Wind
									New tin roofing was ripped off of a storage building in the Skullbone community. Damage was estimated at \$1,000. A wind-topped tree across a road blocked traffic.
Henry County	04	Evening			0	0	3	3	Thunderstorm Wind
									Half the roof of one grandstand at the Henry County Fairgrounds was blown off by violent thunderstorm winds. Roof damage also occurred in isolated areas of the county, and several trees were uprooted. Gardens were also damaged by the strong winds.
Nashville, Davidson County	05	Morning			0	1	0	0	Lightning
									A man was struck by lightning at a Nashville campground and knocked unconscious for a brief period. He reported that he felt a chest pain when hit, but felt no pain afterward and appeared to sustain no lasting injury.
Clarksville, Montgomery County	05	1600CST			0	0	4	0	Thunderstorm Wind
									Violent thunderstorm winds caused damage in Clarksville, notably at the Bright Leaf Burley and Dark Tobacco Warehouse, where winds peeled away about 12,000 square feet of roofing material. Door and window glass were blown out. Damage was almost \$20,000. Numerous trees were downed around Clarksville.
Livingston, Overton County	05	1730CST			0	0	4	0	Thunderstorm Wind
									An early evening thunderstorm blew a section of roof off of a home in the Buena Vista subdivision. The Livingston Academy baseball field was also damaged, as the pressbox and fencing were destroyed.
Loudon County	05	Evening			0	0	3	0	Thunderstorm Wind and Lightning
									Strong thunderstorms downed trees and power lines which resulted in power outages, mainly in the Beals Chapel Road area and Lakeland Drive. Lightning also caused problems when transformers were struck. Lightning also struck the Lenoir City Justice Center, disrupting emergency communications.
Cumberland, Roane, Anderson, and Campbell Counties	05	2000EST- 2050EST			0	0	3	0	Thunderstorm Wind
									Numerous power outages were reported in Cumberland, Roane, and Anderson Counties due to trees and limbs falling across power lines. Lines were downed on the Cumberland-Roane county line near Westel. Lines were also downed in Anderson County at Dutch Valley and Granite Road as well as Bunch Road. Trees were downed in the western portion of Campbell County.
Hamilton County	06	1330EST			0	0	3	0	Thunderstorm Wind
									Strong thunderstorm winds destroyed about \$3,000 worth of greenhouse plants. Winds also damaged the supporting structure at the Hamilton County Farmers Market on Lee Highway. A large tree was also downed.
Chatanooga, Hamilton County	09	2040EST			0	0	5	0	Lightning
									Lightning caused a fire which gutted the top floor of a house containing apartments on Barton Avenue in North Chattanooga. Damage was estimated at over \$100,000.
Smithville, De Kalb County	13	1315CST			0	0	4	0	Thunderstorm Wind
									Three airplanes at the Smithville Airport were flipped over; two were stacked on top of each other and were damaged significantly. Fallen trees caused structural damage to a house in the Oaklawn subdivision as well as to a truck.
Hickman County	13	1325CST			0	1	5	0	Thunderstorm Wind
									Violent thunderstorm winds caused structural damage to a market along Highway 100 in the Lyles area of northern Hickman County. The winds caused roof damage to an adjacent building, as well as to a house across the road. At the market, large windows were broken, a canopy was downed, and gas pumps were toppled. A woman was injured slightly when the car she was driving was blown off the road. Among the trees that were downed, one was blown across Highway 100 and landed 100 yards away.
Trousdale County	13	1330CST			0	0	4	0	Lightning
									Lightning started a fire which destroyed a barn and its contents on Old Gallatin Road. About \$10,000 in damage occurred.
Nashville, Davidson County	13	1330CST			0	1	3	0	Thunderstorm Wind
									A woman sustained minor injuries when she was trapped in her car after a tree fell on the vehicle. At least 150 power lines were downed as numerous trees and limbs were blown down by the winds. Up to 15,000 customers were without electric power temporarily.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

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					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS													
<b>— TENNESSEE</b>										<b>— TEXAS, Northern</b>																					
LaVergne, Rutherford County	22	1730CST	0	1	5	0			Thunderstorm Wind	Hunt County, Greenville	2	1020CST	0	0	?	?			TSTM Wind (52)												
			Damaging thunderstorm winds in LaVergne knocked down two large canopies at a convenience market. A minor injury occurred when one of the canopies landed on a car, and a woman sustained a back injury and cuts. Damage also occurred at a farmer's co-op, an automobile shop, and a trailer used as an office. A concession stand at a ballpark was flattened, and rest rooms were also damaged. Loss was placed close to \$20,000 there.																	Winds gusted to 60 miles an hour at Greenville.											
Germantown, Shelby County	22	Afternoon	0	1	0	0			Lightning	Kaufman County: 3NW Terrell	2	1030CST	0	0	4	?			TSTM Wind												
			A man was not seriously injured when he was struck by lightning while working in the attic of an unfinished building at the Corporate Center.																	2	1030CST	0	0	4	?			TSTM Wind			
Somerville, Fayette County	23	0330CST	0	0	4	0			Lightning											Winds destroyed several barns 3 miles northwest of Terrell and damaged the roofs of buildings at Trinity Valley Junior College at Terrell.											
			Lightning struck the roof of an apartment on North Main, setting it afire and causing extensive roof damage. Another house on West Marginal was also struck but no fire occurred; damage was less significant.																	Hopkins County, 1W Miller Grove	2	1055CST	0	0	3	?			ISTM Wind		
Brentwood, Williamson County	23	Afternoon	0	0	3	0			Thunderstorm Wind											Winds damaged a barn, cow shed, and trees one mile west of Miller Grove.											
			Strong thunderstorm winds occurred in the Stonehenge subdivision of Brentwood, and damaged a number of roofs and downed several trees which also damaged residences.																	Hendersen County, Athens	2	1200CST	0	0	?	?			ISTM Wind		
Davidson and Wilson Counties	23	1415CST-1500CST	0	0	5	0			Lightning and Thunderstorm Wind											Winds downed several trees and broke numerous tree limbs at Athens.											
			A home in Hermitage in Davidson County was struck by lightning, and the resulting fire destroyed the roof and garage. Lightning also struck a house in Mt. Juliet in Wilson County, causing between \$70,000 and \$80,000 in damage. Strong thunderstorm winds blew over a brick sign encasement in front of a church on Mt. Juliet Road and a tree across the street was uprooted.																	Collin County, 7E Plano	2	2330CST	0	0	?	?			Hail (1.50)		
Memphis, Shelby County	24	1615CST	0	0	3	0			Thunderstorm Wind											One and 1/2 inch diameter hail fell 7 miles east of Plano.											
			About ten trees were uprooted in a mobile home park, as strong thunderstorm winds also caused minor structural damage to a few mobile homes in the East Memphis park.																		Kaufman County, Terrell	3	0350CST	0	0	?	?			Flash Flooding	
Montgomery County	27	1430CST	0	0	4	0			Lightning											Heavy rains flooded streets at Terrell.											
			Lightning caused a fire that burned a storage shed and damaged a tractor at a McWhorter Road farm. Damage totaled about \$7,000.																	Hendersen County, 7NW Eustace	3	0445CST	0	0	?	?			Flash Flooding		
Murfreesboro, Rutherford County	27	Evening	0	0	3	0			Thunderstorm Wind											Rainfall of two inches in one hour flooded streets at Gun Barrell City (7NW Eustace).											
			High winds from a thunderstorm downed a tree which fell on the front porch of a house on Reid Street, causing about \$1,000 in damage. A similar amount of damage occurred to a car parked nearby.																	Trinity County, 2N Trinity	7	1400CST	0	0	?	?			Hail (1.75)		
Memphis, Shelby County	29	1500CST	1	0	0	0			Lightning											Golf ball size hail fell 2 miles north of Trinity.											
			A man was struck by lightning and fatally injured as he sat under a tree near Poplar Avenue at East High School. M290																		Hamilton County, 3SE Lamkin	15	1545CST	0	0	?	?			Hail (1.75)	
<b>41 TEXAS, Northern</b>																					Comanche County: 1SE Lamkin	15	1545CST	0	0	?	?			Hail (1.75)	
Cooke County, Myra	2	0500CST	0	0	3	?			TSTM Wind											15 1630CST	0	0	?	?				Hail (1.75)			
			Winds damaged a greenhouse, large antenna and trees at Myra.																		Golf ball size hail fell along Highway 36 from 3 miles southeast of Lamkin to 1 mile southeast of Lamkin at 1545CST. The thunderstorm remained nearly stationary, dropping golf ball size hail at Lamkin at 1630CST. By 1655CST, six inches of rain had fallen at Lamkin.										
Denton County, Sanger	2	0900CST	0	0	3	?			TSTM Wind											Bosque County, Meridian	15	1600CST	0	0	?	?			Hail (0.88)		
			Winds toppled highway signs on Interstate 35 near Sanger.																		Nickel-size hail fell at Meridian.										
Young County, Graham	2	0930CST	0	0	?	?			Hail (1.00)											Hood County, Tolar	15	1640CST	0	0	?	?			Hail (0.75)		
			Quarter-size hail fell at Graham.																		Dime-size hail fell at Tolar.										
Tarrant County: Fort Worth Bedford	2	0940CST	0	0	?	?			TSTM Wind (52)											Dallas County: 2NE DFW	16	1820CST	0	0	0	0			Funnel Cloud		
	2	0940CST	0	0	4	?			TSTM Wind											Coppell	16	1840CST	0	0	?	?			TSTM Wind (52)		
			Winds gusted to 60 miles an hour in west Fort Worth. Strong winds damaged the roof of a motel at Bedford.																		Tarrant County, Grapevine	16	1840CST	0	0	?	?			TSTM Wind (52)	
Collin County, Allen	2	1000CST	0	0	4	?			TSTM Wind												A funnel cloud was observed 2 miles northeast of Dallas/Fort Worth Airport at 1820CST. Winds gusted to 60 miles an hour at Coppell and Grapevine at 1840CST.										
			Winds damaged the roof of an office building at Allen.																		Tarrant County, Arlington	16	1845CST	0	0	0	0			Funnel Cloud	
Dallas County, Richardson	2	1000CST	0	0	?	?			TSTM Wind												A funnel cloud was observed over south Arlington at 1845CST.										
			Winds uprooted trees at Richardson.																			Dallas County, Dallas	17	0615CST	0	0	4	?			TSTM Wind
Rockwall County, Rockwall	2	1015CST	0	0	4	?			TSTM Wind												Winds damaged 5 houses in northeast Dallas. A number of trees around the houses were also blown down.										
			Winds partially unroofed a house at Rockwall.																		Leon County, 2SE Centerville	22	1455CST	Short Narrow	0	0	?	?			Tornado (F0)
																					A tornado knocked down about 20 trees 2 miles southeast of Centerville.										
																						Kaufman County, Forney	22	1655CST	0	0	?	?			TSTM Wind
																						Winds downed power lines and broke off tree limbs in Forney.									



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED DAMAGE	CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS		
<b>41 TEXAS, Southern</b>										
Blanco County	01	1645CST			0	0	0	0	Hail (1.75)	
	01	1645CST			0	0	0	0	Tstm.Wind (?)	
<p>Golfball size hail fell in the southeast part of the county near the Hays County line. Damage was not reported. High winds from the same thunderstorm uprooted trees.</p>										
Liberty, Montgomery, Polk and San Jacinto Counties	02	1430-1530CST			3	0	0	0	Tstm.Wind (?)	
	<p>On the San Jacinto County side of Lake Livingston, high winds from a thunderstorm produced rough water and capsized two boats. 3 of the 4 occupants of one boat drowned while 2 persons of another boat made it to safety. In western Polk County and south and southwest Montgomery County, trees were uprooted. Also trees were toppled in the northwest part of Liberty County near Cleveland. M650, M560, F560.</p>									
Harris County	02	1651CST			0	0	0	0	Tstm.Wind (50)	
<p>High winds from a thunderstorm gusted to 58 MPH at Hobby Airport. Damage was not reported.</p>										
Trinity County	07	1420CST			0	0	0	0	Hail (1.75)	
<p>Golfball size hail fell on Hwy.19 near the town of Trinity. Damage was not reported.</p>										
Harris County	09	1000CST			1	0	0	0	Flooding	
<p>Heavy rains of up to 5 inches in some parts of Houston produced serious street flooding mainly on the northeast and east side. Jacinto City reported the heaviest rainfall and flooding problems. A 3-year-old boy playing near a drainage ditch was washed down a culvert and drowned. Several bayous were reported running full in the city. Brays Bayou carried the main runoff from the flood waters. M30</p>										
Kinney County	17	0059CST			0	0	0	0	Hail (1.75)	
<p>Golfball size hail was reported in the county. Exact location and damage was not reported.</p>										
Blanco, Gillespie, Hays, Kendall, Kerr, Kinney and Real Counties	17	0145CST through afternoon			10	33	6	?	Flash Flooding	
	<p>Late in the evening hours of the 16th and the early morning hours of the 17th, very heavy thunderstorms formed in northeast Edwards and northern Real counties and moved slowly eastward into Kerr County. The heavy thunderstorms produced up to 11.5 inches of rain 9 miles west of Hunt. 5 to 10 inch totals were common from western Kerr County east to western Blanco County. The resulting flood waters on the Guadalupe River resulted in one of the most tragic life-taking events in the Texas Hill Country history. In the eastern part of Kerr County, just west of Comfort, Tx. at about 0645CST, a caravan of buses and a van were leaving a summer youth camp to return to their homes when a bus and a van stalled in the shallow water at the bank of the Guadalupe River. The bus and van happened to arrive at the river bank when the river was on a very rapid rise. The campers were in the process of evacuating the two vehicles when a powerful surge of water hit the area and swept 43 persons into the raging river. There were 39 teenagers and 4 adults. 10 persons drowned in the event and 33 were rescued mostly in tree tops by helicopters. Several were hospitalized and many suffered injuries from the ordeal.</p> <p>Hundreds of other persons along the Guadalupe River and its tributaries had to be evacuated beginning as early as 0145CST just west of Hunt. Many roads were closed throughout the above-mentioned counties and several cars were washed into streams and rivers. The Blanco River in Blanco and Hays counties rose about 15 feet and flooded nearby roads and low water crossings. 5 inches of rain was also reported in northern Kinney County where flash flooding occurred.</p> <p>The heavy thunderstorms that produced this flooding event, meteorologically speaking, were caused by a rare event for the middle of July in South Texas. The unstable atmosphere was created by a small but intense disturbance in the westerlies which normally are well north of South Texas in mid July. One NWS radar observer was quoted as saying that slow-moving heavy thunderstorms (train effect) traversed the area for several hours. F13V, F14W, F14V, F15V, F16V, F16W, M16V, M17V, M18V</p>									
Harris County	24	1405CST			0	0	0	0	Tstm.Wind (?)	
<p>High winds from a thunderstorm uprooted trees in the county.</p>										
<b>41 TEXAS, Western</b>										
Hutchinson County	01	1905CST	3.0	80	0	0	0	0	Tornado (F1)	
<p>A tornado touched down five miles east of Borger in open rangeland. The parent thunderstorm later produced the Skellytown (Carson County) tornado.</p>										
Carson County	01	1920CST			0	0	0	0	Funnels	
	1922CST				0	0	4	0	Hail (1.75)	
	1930CST	4.5	200	0	0	0	0	Tornado (F2)		
<p>Numerous funnel clouds were reported around Skellytown. At 1930 CST law enforcement personnel described a large rotation with "three small tornadoes" -- apparently a multiple vortex tornado-- that trekked to just west of town at 1940 CST. The storm was accompanied by golfball-sized hail that broke out windows in town.</p>										
Armstrong and Carson Counties	01	2036CST			0	0	4	0	Hail (2.50)	
	2057CST	9.0	150	0	2	4	0	Tornado (F2)		
<p>The Department of Public Safety (DPS) reported hail between golfball and baseball size falling at Panhandle in the southeast part of the county. At 2057 CST a tornado touched down seven miles north of Claude. The storm blew several automobiles and large trucks off Interstate 40 near Conway, injuring two truck drivers at 2110 CST. The twister threw a large metal water storage tank across the highway and into a small cafe. At 2135 CST the tornado was last sighted two miles south of Claude.</p>										
Carson County	02	0016CST			0	0	0	0	Hail (1.75)	
<p>A Deputy Sheriff reported golfball-sized hail at White Deer in the eastern part of the county.</p>										
Farmer County	02	1715CST	2.0	100	0	0	0	0	Tornado (F1)	
<p>The Friona Police Department sighted a tornado eight miles north of Friona, in the extreme northern part of the county. The tornado was in open ranchland and inflicted no apparent damage.</p>										
Hale County	02	1923CST			0	0	0	?	Hail (1.75)	
<p>The Hale County Sheriff's Office reported golfball-sized hail one mile south of Cotton Center.</p>										
Lubbock County	02	2102CST			0	0	0	0	Funnel	
<p>The weather observer at Reese Air Force Base reported a funnel cloud four miles north of the base.</p>										
Sherman County	03	0457CST			0	0	0	?	Hail (1.75)	
<p>Golfball-sized hail was reported by DPS Troopers near Texoma.</p>										
Ochiltree County	03	0625CST			0	0	0	0	Hail (1.75)	
<p>The Sheriff's Office reported golfball-sized hail in Perryton. The DPS reported hail of the same size in town at 0637 CST.</p>										
Lynn County	03	1915CST			0	0	0	0	Hail (1.75)	
<p>The Lynn County Sheriff's Office and DPS Officers reported golfball-sized hail six miles south of Tahoka. It fell in farmland where earlier flooding had destroyed the cotton crop, so no damage was reported.</p>										
Lynn County	03	1955CST			0	0	0	0	Hail (1.00)	
<p>Skywarn Spotters reported one-inch hail nine miles east of O'Donnell, in the southeast corner of the county.</p>										
Winkler County	06	1520CST			0	0	0	0	Hail (1.75)	
<p>The public reported golfball-sized hail in Kermit. At 1555 CST the public reported golfball-sized hail at Wink.</p>										
Sherman County	07	1840CST			0	0	?	?	TSTM Wind (61)	
	1840CST	0.5	40	0	0	5	0	Tornado (F1)		
<p>The Stratford Police Chief reported a small tornado, accompanied by 61 knot winds and heavy rain, that damaged numerous roofs, downed several power lines, and produced extensive window damage. One mobile home was totally destroyed.</p>										
Lamb County	07	2005CST	0.1	30	0	0	0	0	Tornado (F0)	
	2029CST	0.5	40	0	0	0	0	Tornado (F0)		
<p>A tornado briefly touched down just west of Amherst, according to the DPS. About 25 minutes later, the same thunderstorm produced another tornado just west of Littlefield.</p>										
Bailey County	07	2010CST			0	0	0	0	Hail (4.50)	
<p>The Sheriff's Office reported baseball to softball size hail near Bula, in the eastern part of the county.</p>										

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

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					KILLED	INJURED	PROPERTY	CROPS	
<b>TEXAS, Western</b>									
Lubbock County	07	2155CST	0	0	0	0	0	0	Hail (1.75)
A severe hailstorm moved slowly across the county, bringing golfball-sized hail but surprisingly little damage. At 2155 CST, Skywarn Spotters encountered golfball-sized hail in northwest Lubbock. The public sighted hail of the same size at 2240 CST in west Lubbock, and 15 minutes later golfball-sized hail was noted in south Lubbock. Intense rain and street flooding accompanied the storm.									
Hall County	12	1622CST	0	0	0	0	0	0	Hail (1.75)
Memphis Police encountered golfball-sized hail five miles west of Memphis.									
Floyd County	12	Est. 1715CST	0	0	3	0			TSTM Wind
Straight-line thunderstorm wind of unknown force snapped two power poles at Cedar Hill, in the northeast part of the county.									
Hall and Donley Counties	12	1720CST	0	0	0	0	0	0	Hail (1.75)
Golfball-sized hail was reported by Memphis Police Officers between Memphis in northeast Hall County and Hedley in south-east Donley County.									
Swisher County	12	Est. 1800CST	0	0	0	6			Hail (1.75)
Hail as large as golfballs brought extensive damage to cotton and corn crops five miles west of Tulia. The hail fell in a six-mile-long swath.									
Lubbock and Crosby Counties	12	1900CST	0	0	0	0	0	0	Hail (1.75)
Hail ranging from a little larger than an inch to near golfball in size pounded northeast Lubbock and northwest Crosby counties, near the community of Estacado. The hail fell for about 15 minutes, doing no appreciable damage to undeveloped farmland.									
Lubbock and Terry Counties	12	2055CST	0	0	0	0	0	0	Hail (1.75)
A Skywarn Spotter encountered golfball-sized hail five miles south-west of Wolforth, in the southwest part of the county. The storm produced hail of the same size as it moved southward, west of the Slide Community in southwest Lubbock County at 2115 CST. Golfball-sized hail was also observed at 2130 CST in far northeast Terry County.									
Lynn County	12	2145CST	0	0	0	0	0	0	Hail (1.00)
The Lubbock and Terry County thunderstorm moved through northwest Lynn County, bringing with it one-inch hail. Strong straight-line wind also struck the Lakeview Community, inflicting roof, tree, and barn damage.									
Hutchinson County	14	1520CST	0	0	4	0			Hail (1.75)
A large supercell brought golfball-sized hail and damaging straight-line wind to southern parts of the county. Golfball-sized hail in Berger inflicted roof, tree, and automobile damage, while wind gusting to 58 knots caused extensive damage at the Lake Meredith Marina.									
Hansford County	14	1552CST	1.0	60	0	0	0	0	Tornado (F0)
The Sheriff's Office reported a tornado in the northwest part of the county, three miles south of the state line and ten miles west of Hitchland. The twister was small and in open country, doing no discernable damage.									
Ochiltree County	14	1555CST	2.0	90	0	0	4	0	Tornado (F1)
A tornado moved across the western edge of Farnsworth, downing power lines and damaging a mobile home.									
Southern Panhandle and Northern South Plains	14	Evening	0	0	5	7			Hail (delisted)
A massive supercell thunderstorm ripped through five counties in the southern Panhandle and northern South Plains, resulting in damage to the cotton crop. A damaging tornado mauled Pampa, causing 10 injuries. The Texas Agricultural Extension Service stated that the loss was in excess of five million dollars for cotton damage in Briscoe County alone, with proportionate losses in adjacent counties. The following is a county-by-county breakdown of the storm's wrath.									
Carson County	14	1718CST	0	0	4	6			Hail (2.50)
The DPS reported tennisball-sized hail that broke out numerous windows in Panhandle. At 1750 CST, wind associated with the same storm gusted to 52 knots in Pantex, in the extreme western part of the county. The hail fell for about 90 minutes and ruined much of the county's cotton crop.									
<b>TEXAS, Western</b>									
Gray County	14	1800CST	4.5	150	0	10	6	0	Tornado (F2)
A tornado struck the west side of Pampa, doing extensive damage to the Coronado West Trailer Park. A total of nine mobile homes were destroyed and six others damaged. Three permanent houses sustained roof damage. Ten persons were injured, three requiring hospitalization.									
Armstrong County	14	1815CST			0	0	0	0	Hail (1.75)
A spotter reported golfball-sized hail in Claude.									
Briscoe County	14	1930CST			0	0	3	7	Hail (2.75)
Golfball-sized hail was encountered by Skywarn Storm Spotters in Silverton between 1930 and 1940 CST. At 1953 CST, baseball-sized hail stacked up several inches deep six miles north and east of Silverton. The massive hailstorm destroyed about 40 percent of the county's cotton. This was the worst cotton loss due to hail since 1934, according to veteran farmers in the area.									
Floyd County	14	2035CST			0	0	3	6	Hail (2.00)
Hail the size of hen eggs struck much of the county, doing extensive damage to cotton. Corn was stripped of its leaves and heavily damaged as well, but much of that crop was thought to have survived.									
Midland County	18	1730CST			0	0	0	0	TSTM Wind (70)
Thunderstorm wind gusted to 70 knots at Midland Regional Airport. At 1745 CST the Midland Fire Department reported 0.75 inch hail at the northwest corner of the city.									
Hutchinson and Moore Counties	19	1725CST			0	0	0	0	Hail (1.75)
The Sheriff's Office reported golfball-sized hail falling along the county line at Highway 152.									
<b>42 UTAH</b>									
UTZ011 Southern Mountains	17	1715MST			0	0	1	0	High Wind (65Z)
A Utah highway patrolman estimated a 60 mph wind gust along Interstate 15 between Cedar City and St. George. No thunderstorms were in the area, but the wind was produced by a strong Pacific cold front moving into Utah. Several other reports of strong winds greater than 50 mph were received from locations over the western half of Utah, but these fell short of the high wind criteria.									
Wasatch County, Heber City	18	1800MST			1	2	1	0	High Wind
A crosswind tipped over a semi-truck killing one of the passengers. Two other passengers were injured in the accident. M07V									
UTZ003 Wasatch Front	19	1938MST			0	0	1	0	High Wind (G57)
An isolated wind gust of 65 mph, that was apparently due to a short-lived mountain wave, occurred in West Valley City. No thunderstorms were occurring in the area at the time.									
Salt Lake County, West Valley City	21	1145MST			0	0	5	6	Hail (1.00)
Salt Lake County, Salt Lake City	21	1210MST			0	0	4	0	Flash Flood
Utah County, South Provo	21	1220MST			0	8	6	6	Hail (1.75)
Utah County, Provo	21	1223MST			0	0	1	0	Hail (1.75)
Summit County, Hoytsville	21	1230MST			0	0	4	0	Thunderstorm Wind
Summit County, Hoytsville	21	1230MST			0	0	4	0	Hail (1.50)
Rich County, Garden City	21	1230MST			0	0	1	0	Hail (1.25)
Summit County, Coalville	21	1233MST			0	0	1	0	Hail (2.75)
Utah County, South Provo	21	1234MST			0	0	1	0	Hail (1.75)
Utah County, Provo	21	1240MST			0	0	1	0	Hail (1.13)
Utah County, Springville	21	1240MST			0	0	1	0	Hail (2.00)
Utah County, Springville	21	1245MST			0	0	1	0	Hail (0.75)
Salt Lake County, Salt Lake City	21	1255MST			0	0	1	0	Thunderstorm Wind
Summit County, Ramas	21	1330MST			0	0	1	0	Hail (1.00)
Sevier County, Elsinor	21	1350MST			0	0	1	0	Thunderstorm Wind (G57)

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					KILLED	INJURED	PROPERTY	CROPS	
<b>UTAH</b>									
Salt Lake County, Kearns	21	1400MST		0	0	3	0	Hail	
Salt Lake County, Kearns	21	1400MST		0	0	4	0	Thunderstorm Wind	
Wasatch County, Bench Creek	21	1400MST		0	0	1	0	Hail (1.00)	
Utah County, Provo and Orem	21	1418MST		0	0	1	0	Hail (1.00)	
Salt Lake County, Cottonwood Canyons and Sandy	21	1427MST		0	0	1	0	Flash Flood	
San Pete County, Gunnison and Centerfield	21	1430MST		0	0	1	0	Hail (1.75)	
San Pete County, Fairview	21	2230MST		0	0	1	0	Hail (1.00)	
<p>A vigorous Pacific cold front moved through central and northern Utah on this Tuesday. The front was accompanied by a damaging squall line which battered most of the area with large hail, heavy rain and high winds.</p> <p>In Utah County, a cumulative damage estimate by insurance companies for crops and property added up to several million dollars. The county tart cherry harvest was only about one third of the way through, and most of the crop was lost. Apples, pears, and peaches also sustained a great deal of damage. Damage to automobiles and buildings was also severe with many broken windows. One estimate indicated that about 650 windows were broken at Brigham Young University.</p> <p>In Salt Lake County, flooding appeared to be the biggest problem, even though strong winds and large hail were also occurring. The drainage system of the Heber M. Wells Building was overpowered by the deluge, and the building sustained approximately \$30,000 dollars worth of damage. Many streets and intersections were closed due to high water across the entire valley. At the University of Utah, several buildings were flooded, including the Merrill Engineering Building. Utah Power and Light Company estimated that 10,000 customers were without power for a short time, due to lines being blown down by strong winds.</p> <p>In Summit County, the small town of Hoytsville was hit by a particularly nasty thunderstorm. Hailstones the size of "silver dollars" and strong gusts destroyed a ten-year-old barn and blew the windows out of twelve cars. The car glass facing south was blown into the car, while some north facing glass in some of the same cars was blown out. Camper toppers were blown as far as 150 feet.</p>									
<b>43 VERMONT</b>									
Caledonia County, West Barnet	14	1422EST		0	0	5	0	Thunderstorm Wind	
West Burke	14	1435EST		0	0	4	0	Thunderstorm Wind	
Waterford	14	1735EST		0	0	4	0	Thunderstorm Wind	
Addison County, Middlebury	14	1500EST		0	0	5	0	Thunderstorm Wind	
Essex County, Lunenburg	14	1800EST		0	0	5	0	Thunderstorm Wind	
<p>Summer thunderstorms with high winds knocked down trees and power lines in northern Vermont.</p>									
Windsor County	15	1730EST		0	0	4	0	Flash Flood	
<p>Rainfall of 3.8 inches in just less than two hours occurred. The result was severe road washouts in the towns of North Bridgewater and West Woodstock. Some other road washouts were reported in the town of Reading.</p>									
Orange County	18	1745EST		0	0	4	0	Thunderstorm Wind	
	18	1845EST		0	0	4	0	Thunderstorm Wind	
Windsor County	18	1810EST		0	0	3	3	Thunderstorm Wind	
	18	1930EST		0	0	4	0	Thunderstorm Wind	
Washington County	18	1830EST		0	0	3	3	Thunderstorm Wind	
Orleans County	18	2230EST		2	5	5	0	Thunderstorm	
<p>A late night thunderstorm with heavy rain reduced visibility which resulted in a fatal car crash. Police investigators listed the cause of the accident as weather related. A short time later, a second accident occurred nearby. This accident injured two females. Elsewhere, trees and power lines were blown down.</p> <p>M21V (Derby, VT) M16V (Derby, VT)</p>									
<b>VERMONT</b>									
Washington County	20	evening		0	0	4	3	Thunderstorm Wind	
	20	late evening		0	0	4	0	Mud Slide	
	21	0030EST		0	0	5	0	Flash Flood	
	21	0140EST		0	0	5	0	Lightning	
	21	0545EST		0	0	4	0	Lightning	
<p>Thunderstorms accompanied by lightning and heavy rain kept Vermonters alert on Monday night, the 20th and Tuesday morning, the 21st. In Montpelier, a mud slide wrecked part of a senior housing project. Radio station WNCB was knocked off the air by lightning. In nearby Barre City, lightning also tripped a fire alarm in an apartment complex. At 0545EST, lightning started a fire in a tool/ski lift station at the Bolton Ski Resort. While firefighters were in route to the location, they found the Bolton Valley Road washed out. Many other roads were washed out around the county as well.</p>									
Windham County	25	1525EST		0	0	3	2	Thunderstorm Wind	
Addison County, New Haven	25	1700EST		0	0	4	4	Thunderstorm Wind	
Shoreham	25	1700EST		0	0	3	2	Thunderstorm Wind	
<p>Cooperative Observers reported downed trees and power lines.</p>									
Addison County	30	1545EST		0	0	2	2	Hail (0.75)	
Chittenden County	30	1545EST		0	0	2	2	Hail (0.75)	
Orange County	30	1636EST		0	0	3	0	Hail (1.50)	
	30	1655EST		0	0	2	2	Hail (1.00)	
	30	1745EST		0	0	4	0	Thunderstorm Wind	
Washington County	30	1650EST		0	0	2	3	Hail (1.00)	
<p>Hail and strong winds hit central Vermont.</p>									
<b>44 VIRGINIA</b>									
Waynesboro	06	1500EST		0	0	7	2	Hail (2.00)	
<p>A thunderstorm dropped hail of one to two inches in diameter, causing extensive damage that was estimated at up to \$9 million. The hail broke a large number of windows, damaged cars, houses, and traffic lights, and destroyed gardens.</p>									
Augusta County	06	1622EST		0	1	0	0	Lightning	
<p>A man was injured when struck by lightning near Waynesboro as he stepped out of a pool.</p>									
Culpeper, Culpeper County	07	1800EST		0	0	3	0	Thunderstorm Wind and Hail (1.75)	
<p>A thunderstorm accompanied by strong winds and golfball size hail toppled large trees and destroyed or damaged road signs. Two to three inches of rain fell.</p>									
Dickenson, Buchanan, and Washington Counties	11	0900EST		0	0	6	3	Flash Flood	
<p>Heavy rain associated with thunderstorms forced the Russell Fork River 4 to 6 feet above flood stage, causing evacuations and considerable damage to bridges and roads. The most damage was in Dickenson County where estimates were \$3.5 million.</p>									
Loudoun and Fairfax Counties	12	1512EST	1.5	25	0	0	3	3	Tornado (F1)
<p>A tornado made 2 or possibly 3 touchdowns near Arcola. A pilot reported the tornado along the Fairfax-Loudoun county line at 1525EST. There was damage to crops and utility poles, but no injuries were reported.</p>									
Franklin County	12	1725EST		0	0	3	0	Thunderstorm Wind	
<p>Straight-line winds estimated at up to 75 mph and associated with a gust front caused scattered damage in Rocky Mount, including a roof blown off a mobile home. Medium and large pine trees were uprooted.</p>									
Page County	13	1400EST		0	4	4	0	Lightning	
<p>Four men, aged 18 to 22 years, were injured by lightning as they huddled under a canoe near a tree along the Shenandoah River. Lightning also caused a fire at a historic inn in Front Royal.</p>									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>— VIRGINIA</b>									
Entire State	18	9-14 days			0	0	4	5	Heat Spell
	Temperatures climbed well into the 90's (°F) for 9 to 14 consecutive days, occasionally rising over 100°F. Mountain sections were also in the 90's. Richmond had its second hottest July on record, and Norfolk its fourth. VEPCO reported record-level usage of near 11.5 million kilowatts on the 21st. Minor heat-related medical problems were reported. Agriculture suffered the most from the heat and lack of rain in areas near the Virginia-North Carolina border. Chicken losses on the Delmarva Peninsula approached one million, which was somewhat above normal.								
Manassas Airport Prince William County	21	1905EST	0.25	50	0	0	6	0	Tornado (F0)
	A tornado skipped across Manassas Airport, making contact with the ground 3 times. Damaged were 55 planes, 20 of which were flipped over. Three large hangar doors were twisted off assembly rails, and concrete chunks from off-ramp aprons were ripped up.								
Montgomery County	22	1755EST			0	0	4	0	Thunderstorm Wind
	Strong winds associated with thunderstorms knocked over several large trees. The winds ripped a tin roof off of an old house near Lafayette, blowing it 50 yards.								
Pittsylvania County	23	1400EST			0	0	0	4	Hail (1.75)
	Golfball size hail in the Dry Fork area caused widespread damage to tobacco crops.								
Powhatan County	26	1600EST	2.0	100	0	0	?	0	Tornado (F0)
	A small tornado skipped along tree tops about 5 miles northwest of Powhatan. Several large oak and hickory trees were twisted off 10 to 15 feet above the ground. Numerous other trees were blown over or damaged. No structural damage or injuries were reported.								
Roanoke County	30	1400EST			0	0	?	0	Hail (1.75)
	Golfball size hail fell in Salem. The associated thunderstorm also caused frequent power outages.								
Virginia Beach and Chesapeake	31	1700EST			0	0	5	0	Thunderstorm Wind
	A line of strong thunderstorms moved into the area, blowing over several large trees. In Virginia Beach, part of an open-air supermarket facade was blown off and house siding damage occurred. In Chesapeake, lightning caused power outages and wiped out police radio communications. As much as 2.63 inches of rain was reported with local flooding.								
<b>45 WASHINGTON</b>									
Chelan and Whitman Counties	18	1730 PST			0	0	5	0	Flash Flood
	Separate thunderstorms developed at approximately the same time over the town of Wenatchee and near the town of Colfax, 50 miles south of Spokane. The Wenatchee storm had heaviest rainfall over the downtown business area, with a spotter reporting 1.03 in. of rain in a half hour period. Flooding of basements and buildings resulted, and clogged culverts caused flooding of some roads and parking lots. The Colfax storm dumped 1 to 2 inches of rain over the area in an hour and a half period, causing mudslides which temporarily closed some secondary roads.								
King County	18	1900 PST			0	0	4	0	Lightning
	Thunderstorm activity over the Kent Valley area 15 miles south-south-east of Seattle produced lightning which struck a house. The roof and gutter sustained damage and 3 TV sets, a VCR, and stereo were blown out by the electrical surge of the lightning strike.								
Okanogan and Grant Counties	22	1400 PST			0	0	0	0	Lightning
	Lightning strikes from an afternoon thunderstorm touched off about 20 small range and forest fires and one house fire. Fires were spread from the Grand Coulee area eastward to the Colville Indian Reservation in Northeast Washington. The largest fire was a 20-acre blaze. Damage in the house fire was limited to an electrical panel. At the Grand Coulee Dam, winds uprooted a 20 foot Pine tree in a park.								
Southeast Washington	25	0500 PST			0	0	5	0	Heavy Rain, Small Hail
	A morning rain and hail storm swept over the southeastern corner of the state, with many farmers reporting damage to crops due to the hail. Damage was widely scattered over a 6 county area, with portions of some fields sustaining serious damage while the remaining areas were unaffected.								
<b>— WASHINGTON</b>									
North-Central and Northeastern Washington	25	1400 PST			0	0	5	0	Flash Flood, Lightning
	A cloudburst accompanying an afternoon thunderstorm caused mudslides over roads and substantially damaged a pair of roads south of Bridgeport, 50 miles north-northeast of Wenatchee. Cost of repairs was estimated at \$100,000. In Colville, 35 small fires caused by lightning strikes were reported. The largest fire covered about 10 acres.								
<b>46 WEST VIRGINIA</b>									
WV2011 Jefferson County, 10 SE Summit Point	02	1618EST			0	0	5	?	Funnel Cloud, Hail (1.75), and Thunderstorm Wind
	Heavy thunderstorms produced golf ball size hail, and strong winds that destroyed a 60 x 120 foot warehouse. Witnesses observed a funnel cloud.								
WV2011 Jefferson County	02	evening			0	0	?	?	Flash Flooding
	Thunderstorms dumped more than 3 inches of rain overnight. Many roads were closed, buildings were flooded, and the Bolivar-Harpers Ferry water treatment plant was washed out of service.								
WV2010 Grant County	11	1930EST			0	0	?	?	Thunderstorm Wind
	Grant County officials reported that large limbs were blown off trees, knocking down power lines and causing several outages in the Petersburg area.								
WV2005-007 Braxton County and Webster County	26	1430EST			0	0	?	?	Thunderstorm Wind
	State Police reported that several large trees were blown down and blocking State Route 15 from Newville in Braxton County to Guardian in Webster County.								
WV2004 Putnam County	26	1445EST			0	0	0	?	Thunderstorm Wind
	Several large trees were downed along State Route 34 near Red House.								
WV2007 Nicholas County, 2 N Summersville	26	1530EST			0	0	?	?	Hail (0.75) and Thunderstorm Wind
	A National Weather Service employee reported that, during a thunderstorm, 3/4 inch hail fell and large tree limbs were downed by winds on State Route 19, north of Summersville.								
<b>47 WISCONSIN</b>									
Phillips, Price Co.	02	1325- 1340CST			0	1	5	0	Thunderstorm Wind (59)
	A severe thunderstorm generated downburst winds and hail up to the size of golfballs as it struck the Phillips area. Winds gusting to 68 mph flipped over a plane at the Price County Airport, sheared the roof from a home, leveled a garage, shifted several trailer homes from their foundations and destroyed 15 concrete statues in a park. A woman was injured when cut by flying glass as windows in her home were shattered. The wind-driven hail destroyed many crops and damaged several cars. In all, over \$350,000 in damage took place.								
Medford, Taylor Co.	02	1540CST			0	0	3	0	Thunderstorm Wind
	Intense thunderstorm winds caused several large trees to fall, one of which landed on a home 2 miles northeast of Medford.								
Merrill, Lincoln Co.	02	1548CST			0	0	?	0	Thunderstorm Wind
	Several large trees were toppled by strong thunderstorm winds 1 mile north of Merrill.								
Athens, Marathon Co.	02	1558CST			0	0	?	0	Thunderstorm Wind
	Violent thunderstorm winds blew down several trees measuring 6 to 12 inches in diameter 2 miles south of Athens.								

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

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					KILLED	INJURED	PROPERTY	CROPS		
<b>WISCONSIN</b>										
Nausau, Marathon Co.	02	1630-1635CST			0	0	4	0	Thunderstorm Wind (54)	A severe thunderstorm generated winds to 62 mph at the Wausau Airport. Power lines and several large trees, one of which crushed a car, were felled. Over 6,000 homes were without power.
Union Center, Juneau Co.	02	1635CST			0	0	0	?	Hail (1.75)	Hail up to the size of golfballs fell from a severe thunderstorm at Union Center.
Sauk County: Reedsburg Reedsburg Baraboo	02	1700CST			0	0	0	0	Funnel Cloud	
	02	1700CST			0	0	0	?	Hail (1.75)	
	02	1720CST			0	0	0	?	Thunderstorm Wind	A severe thunderstorm generated hail up to golfball size and a funnel cloud at Reedsburg. The storm's winds then knocked down several large trees and power lines in Baraboo.
Pike Lake, Marathon Co.	02	1710-1715CST	0.2	75	0	0	5	0	Tornado (F1)	A tornado caused over \$50,000 damage just east of Pike Lake. Numerous trees were twisted and knocked down causing damage to 7 homes, 1 boat foundation and a boat trailer.
Spring Green, Sauk Co.	02	1755CST			0	0	0	?	Thunderstorm Wind	Strong winds from a severe thunderstorm downed power lines and a few large trees at Spring Green.
Boardman, St. Croix Co.	06	1508CST	0.1	25	0	0	0	?	Tornado (F0)	A small tornado touched down briefly 1 mile southeast of Boardman, heavily damaging 12 trees.
Willow River State Park, St. Croix Co.	06	1527CST			0	0	0	?	Thunderstorm Wind	A severe thunderstorm uprooted trees 9 to 12 inches in diameter at Willow River State Park.
Oconomowoc, Waukesha Co.	06	1550-1600CST			0	0	4	0	Thunderstorm Wind	A severe thunderstorm downed trees and power lines, turned over boats, and damaged piers along Okauchee Lake. Trees were also leveled in Oconomowoc.
Pewaukee, Waukesha Co.	06	1605-1610CST	0.3	100	0	0	6	0	Tornado (F1)	A tornado set down just northeast of downtown Pewaukee. About \$800,000 in damage to a 3 block area occurred. Sixteen homes and garages and 5 buildings were severely damaged. The roof of the village's public works building was ripped in half. Several vehicles, power lines and numerous trees, some 75 feet tall, were destroyed. Hail up to 3/4 inch in diameter accompanying the storm fell in Menomonee Falls.
	06	1620CST			0	0	0	?	Hail (0.75)	
Milwaukee, Milwaukee Co.	06	1615-1635CST			0	0	5	?	Hail (2.00)	
	06	1615-1640CST			0	0	5	?	Thunderstorm Wind	A severe thunderstorm swept through the northern half of Milwaukee County dropping hail up to 2 inches in diameter that caused extensive damage to many cars, especially at auto dealerships. Intense winds knocked down numerous trees, some crushing cars. Power lines were downed, affecting 15,000 homes.
Stoughton, Dane Co.	06	1700CST			0	0	?	?	Thunderstorm Wind	A severe thunderstorm blew down trees and several power lines in Stoughton.
New Lisbon, Juneau Co.	07	1552CST			0	0	0	0	Funnel Cloud	A funnel cloud was sighted 1 mile west of New Lisbon.
Wittenburg, Shawano Co.	09	0040CST			0	0	?	?	Thunderstorm Wind	Intense winds from a severe thunderstorm sheared the tops off several large trees 1 mile north of Wittenburg.
Baileys Harbor, Door Co.	10	1230CST			0	0	2	?	Thunderstorm Wind	A severe thunderstorm with strong winds uprooted large trees and broke windows of a motel at Baileys Harbor.
Centuria, Polk Co.	11	0730CST			0	0	3	0	Thunderstorm Wind	A large garage had half its roof pulled off and some of the siding buckled from strong thunderstorm winds at Centuria.
<b>WISCONSIN</b>										
Mosinee, Marathon Co.	11	1225CST			0	0	?	?	Thunderstorm Wind (65)	Winds gusting to 75 mph from a severe thunderstorm near Mosinee blew down several trees.
Antigo and Bryant, Langlade Co.	11	1305-1320CST			0	0	4	0	Thunderstorm Wind	A severe thunderstorm felled several large trees and power poles and knocked over a 12 by 12 foot shed with strong winds in and a few miles east of Antigo. The same storm leveled some trees, one of which crushed a pickup truck in Bryant.
Crandon, Forest Co.	11	1330CST			0	0	?	?	Thunderstorm Wind	Several trees and a few power poles were toppled by a severe thunderstorm east of Crandon.
Fence, Florence Co.	11	1345CST			0	0	?	?	Thunderstorm Wind	Intense winds from a severe thunderstorm caused damage to several power lines and large trees near Fence.
Biramwood, Bowler, and Shawano; Shawano Co.	11	1330-1350CST			0	0	4	0	Thunderstorm Wind (70)	Winds gusting up to 80 mph from a severe thunderstorm toppled many trees and power lines from Biramwood to Bowler to Shawano.
Klondike, Oconto Co.	11	1345CST			0	0	5	0	Thunderstorm Wind	Violent thunderstorm winds leveled a 50 foot barn, killing 14 head of cattle 5 miles west of Klondike.
Pound, Peshtigo, and Marinette; Marinette Co.	11	1350-1410CST			0	0	5	0	Thunderstorm Wind (70)	Thunderstorm downburst winds gusting to 80 mph carved a 20 mile path of destruction from Pound to Marinette. In Pound, \$50,000 damage took place when a large factory roof was ripped away, an overhead door wrecked, and numerous trees downed. Near Peshtigo, numerous large trees and a 69,000 volt transmission line were toppled. In Marinette, several roofs were damaged, a scoreboard was twisted into scrap metal, and numerous trees were uprooted or split.
Howard and Green Bay, Brown Co.	11	1400CST			0	44	5	?	Thunderstorm Wind	Strong winds from a severe thunderstorm collapsed a 274 by 134 foot circus tent containing 1200 people in Howard. 43 people received minor injuries and 1 man was treated for a broken leg. Damage to the tent was \$75,000. The winds also downed trees and power lines from Green Bay to Dyckesville.
Luxemburg, Kewaunee Co.	11	1445CST			0	0	3	0	Thunderstorm Wind	Intense thunderstorm winds blew a boat off a trailer into a ditch, overturned chopper wagons, lifted a silo roof, and blew some roofing materials off a high school near Luxemburg.
Wisconsin Rapids, Wood Co.	11	2000CST			0	0	?	?	Thunderstorm Wind	A severe thunderstorm uprooted trees with very strong winds in and just east of Wisconsin Rapids.
Prairie du Chien, Crawford Co.	11	2045CST			0	0	4	0	Thunderstorm Wind	Strong thunderstorm winds lifted the roof of a home and carried it 100 yards into another home in Prairie du Chien. Damage was \$45,000.
Francis Creek, Manitowoc Co.	12	1127-1130CST	0.2	75	0	0	5	0	Tornado (F1)	A tornado briefly touched down 1 mile south of Francis Creek, destroying a house and garage as well as damaging a barn, a shed and several trees. Over \$50,000 in damage occurred and debris from the house was found as far as several miles away.
Milwaukee, Milwaukee Co.	12	1130CST			0	0	4	0	Thunderstorm Wind	A severe thunderstorm toppled several large trees on the east side of Milwaukee. One tree landed on the front end of a car, lifting the rear wheels into the air.
Lake Michigan, Milwaukee Co.	12	1150CST			0	0	0	0	Waterspouts	Two waterspouts were observed over Lake Michigan 2 miles east of Milwaukee.
Bashaw, Burnett Co.	20	0820CST	0.1	25	0	0	4	?	Tornado (F0)	A small tornado set down briefly on a farm 6 miles south of Bashaw. It took off the top of a silo, threw a chopper wagon 40 yards into the air, uprooted trees and lifted the top off a truck.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

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<b>WISCONSIN</b>									
Rice Lake, Barron, and Chetek; Barron Co.	20	0842-0911CST			0	0	5	?	Thunderstorm Wind (52)
									Severe thunderstorm winds gusting to 60 mph at the Rice Lake Airport caused scattered damage to several locations throughout the county. A shed, barn, and swingset were damaged 5 miles north of Rice Lake, several large trees were toppled in Barron, and a barn roof was torn off 2 miles west of Rice Lake. Other large trees and power lines were knocked down in Chetek. Many cornfields were also leveled.
Bruce, Rusk Co.	20	0930CST			0	0	?	?	Thunderstorm Wind
									Powerful winds from a severe thunderstorm knocked down power lines and 14 trees just west of Bruce.
Medford, Taylor Co.	20	1045CST			0	0	3	0	Thunderstorm Wind
									Violent thunderstorm winds blew the roof off a barn and leveled large trees 1 mile west of Medford.
Minoqua and Three Lakes, Oneida Co.	20	1040-1100CST			0	0	3	0	Thunderstorm Wind
									A severe thunderstorm with very strong winds downed trees and power lines, shattered a plate glass door, and blew down signs in Minoqua. The winds also knocked down power lines in Three Lakes.
Eagle River, Vilas Co.	20	1100CST			0	0	?	0	Thunderstorm Wind
									A severe thunderstorm generated winds which leveled several trees and power lines near Eagle River.
Merrill, Lincoln Co.	20	1110-1120CST			0	0	0	?	Hail (1.75)
	20	1110-1120CST			0	0	4	?	Thunderstorm Wind (52)
									A severe thunderstorm packing winds up to 60 mph and dropping hail up to golf ball size caused scattered damage from the Council Grounds State Park to 5 miles east of Merrill. The storm downed many trees. At the Lincoln County Fairgrounds east of Merrill, a grandstand roof was ripped away. Several trees were uprooted, some of which fell on some mobile homes.
Edgar and Marathon City, Marathon Co.	20	1125CST			0	0	?	?	Thunderstorm Wind (52)
									Winds gusting up to 60 mph in Marathon City from a severe thunderstorm downed trees and power lines. A barn near Edgar collapsed from the intense winds, killing 6 cows.
Seymour, Outagamie Co.	20	1130CST			0	0	4	0	Thunderstorm Wind
									Several large trees, some up to 2 feet in diameter, were toppled by severe thunderstorm winds in Seymour. One tree fell on a car and another landed against a building.
Antigo, Langlade Co.	20	1135-1145CST			0	0	5	?	Thunderstorm Wind
									Intense downburst winds from a severe thunderstorm carved a damage path along Highway 64 from the town of Ackley to Antigo. About \$242,000 in damage took place as the winds ripped apart a mobile home with a large part of it landing in the Eau Claire River seven hundred yards away. A 1,000 gallon LP tank ruptured and a factory was badly damaged. Numerous trees were uprooted and power lines knocked down. 2 barn silos and the Langlade courthouse roof were damaged. Some oat and corn crops were flattened.
Mosinee, Marathon Co.	20	1142CST			0	0	?	?	Thunderstorm Wind (70)
									A severe thunderstorm packing winds to 87 mph was reported at the Central Wisconsin Airport in Mosinee.
Florence, Florence Co.	20	1145CST			0	0	3	0	Thunderstorm Wind (52)
									Winds gusting up to 60 mph downed several large trees, one of which landed on a car, in Florence.
Biramwood and Gresham, Shawano Co.	20	1200-1240CST			0	0	4	0	Thunderstorm Wind
									A barn and silo were blown away by strong winds from a severe thunderstorm 1 mile north of Biramwood. The same storm uprooted several trees and tore down power lines around Gresham.
Marion, Embarrass, and Clintonville; Waupaca Co.	20	1230-1245CST			0	0	3	?	Thunderstorm Wind (52)
									Severe thunderstorm winds gusting to 60 mph caused many trees and power lines to be knocked over in the Marion, Embarrass, and Clintonville areas. Roofing was peeled back from a barn 1 mile northwest of Embarrass.
<b>WISCONSIN</b>									
Stevens Point to Amherst, Portage Co.	20	1240-1250CST			0	0	?	?	Thunderstorm Wind
									Numerous trees and power lines were leveled by severe thunderstorm winds from Stevens Point to Amherst.
Suring and Gillette, Oconto Co.	20	1242CST			0	0	?	?	Hail (1.75)
	20	1242-1253CST			0	0	?	?	Thunderstorm Wind (60)
									A severe thunderstorm packing winds to 69 mph toppled trees and power lines between Suring and Gillette and dumped hail up to golfball size.
Peshtigo, Oconto Co.	20	1255CST			0	0	?	0	Thunderstorm Wind
									Several large trees were uprooted in Peshtigo by severe thunderstorm winds.
Weyauwega, Waupaca Co.	20	1300CST			0	0	?	0	Thunderstorm Wind
									Large trees and power lines were toppled by a severe thunderstorm in Weyauwega.
Schiocton and New London, Outagamie Co.	20	1300-1310CST			0	0	4	0	Thunderstorm Wind
									Intense thunderstorm winds leveled a 40 by 80 foot barn and damaged several pieces of farm equipment near Schiocton. Trees and power lines were knocked down from Schiocton to New London.
Appleton, Kaukauna, and Little Chute; Outagamie Co.	20	1305-1315CST			0	1	?	?	Thunderstorm Wind (50)
									A severe thunderstorm producing winds to 58 mph at the Outagamie County Airport also knocked down numerous trees and power lines in Kaukauna. One large tree landed on a car, slightly injuring a small girl. The winds also ripped the air raid siren off the roof of the Little Chute village hall.
DePere, Brown Co.	20	1305CST			0	0	4	0	Thunderstorm Wind
									Violent thunderstorm winds moved a steel silo from its foundation, ripped pieces from a barn and tossed them over a quarter of a mile, and pushed a truck backwards over 100 feet, 6 miles south of DePere.
Sister Bay, Door Co.	20	1310CST			0	0	4	?	Thunderstorm Wind (61)
									A severe thunderstorm generated winds to 70 mph and caused damage to portions of Door County. The winds set a pier loose with several boats landing upon the rocks along Sister Bay. Several large trees and power lines were also toppled.
Butte des Morts and Oshkosh, Winnebago Co.	20	1330-1340CST			0	0	?	?	Thunderstorm Wind
									Strong winds from a severe thunderstorm caused heavy tree and power line damage in the Butte des Morts and Oshkosh areas.
Valders, Manitowoc Co.	20	1400CST			0	0	3	0	Thunderstorm Wind
									Very intense thunderstorm winds flipped over and destroyed a camper, tore down several trees, bent a TV antenna and caused roof damage to a residence in Valders.
Brillion and Chilton, Calumet Co.	20	1400-1410CST			0	0	4	0	Thunderstorm Wind
									A severe thunderstorm with very intense winds caused a shed to become twisted upon a tree and a garage wall to be blown out in Brillion. In addition, numerous trees were toppled from Brillion to Chilton.
Dexter and Wisconsin Rapids, Wood Co.	20	1440-1450CST			0	0	4	?	Thunderstorm Wind (56)
									Winds gusting as high as 65 mph from a severe thunderstorm produced scattered damage throughout southern Wood County. Near Dexter, 8 to 10 inch diameter trees were blown over. Trees, antennae, including a 30 foot antenna tower, power lines, and a camper were blown over in Wisconsin Rapids. A huge tree fell in a house and a topper from a truck blew into some trees, also in Wisconsin Rapids.
Adams and Monroe Center, Adams Co.	20	1445-1450CST			0	0	?	?	Thunderstorm Wind
									A severe thunderstorm producing intense winds knocked down large trees near Adams and Monroe Center.
Necedah and Mauston, Juneau Co.	20	1448-1455CST			0	0	4	?	Thunderstorm Wind (56)
									High winds gusting to 64 mph at Necedah from a severe thunderstorm toppled trees, peeled a roof back at a shopping center and service station and leveled a barn in Mauston.

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JULY 1987

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					KILLED	INJURED	PROPERTY	CROPS	KILLED	INJURED	PROPERTY	CROPS		
<b>WISCONSIN</b>														
Baraboo, Sauk Co.	20	1602CST			0	0	?	?	Thunderstorm Wind					
Several large trees were felled by severe thunderstorm winds in Baraboo.														
Randolph, Dodge Co.	20	1603CST			0	0	?	?	Thunderstorm Wind (52)					
A severe thunderstorm generated winds up to 60 mph in the Randolph area and blew some windows out of a house.														
Mazomanie and Stoughton, Dane Co.	20	1644-1655CST			0	0	?	?	Thunderstorm Wind					
Several large trees and power lines were blown over by severe thunderstorm winds in Mazomanie and Stoughton.														
Chenequa and Delafield, Waukesha Co.	20	1715-1725CST			0	1	?	?	Thunderstorm Wind					
Violent thunderstorm winds caused a 16 inch limb of a large tree to land on a van, slightly injuring its driver near Chenequa. Several large trees and power lines were downed in the Delafield and Nashota areas.														
Janesville and Clinton, Rock Co.	20	1748-1800CST			0	0	?	?	Thunderstorm Wind (60)					
A severe thunderstorm packing winds to 69 mph at the Janesville Airport felled large trees and power lines from Janesville to Clinton.														
Prescott, Pierce Co.	20	2000CST			0	0	4	0	Thunderstorm Wind					
Gusty winds from a severe thunderstorm blew down many trees as well as a shed in Prescott.														
Whitehall, Trempealeau Co.	21	0005CST			0	0	5	4	Lightning					
Lightning struck a 140 by 36 foot barn near Whitehall and the resulting fire destroyed the barn, 17,000 bales of hay, an adjoining shed and a manure spreader.														
Richwood, Dodge Co.	21	1809CST	0.1	25	0	0	3	0	Tornado (F0)					
	21	1809-1815CST			0	0	?	?	Hail (1.75)					
A small tornado touched down on County Trunk K at Walton Road 1 mile north of Richwood, pulling a door from a house, causing roof and window damage and uprooting a pair of 30-inch diameter trees. The accompanying storm dropped hail up to golfball size.														
Somerset to New Richmond, St. Croix Co.	23	1310-1330CST			0	0	?	?	Hail (1.00)					
	23	1310-1330CST			0	0	6	?	Thunderstorm Wind (70)					
Extremely violent thunderstorm downburst winds up to 80 mph and hail up to 1 inch in diameter carved a path of destruction from Somerset to New Richmond. In Somerset, over 300 large trees were flattened, numerous power lines knocked down, a mobile home overturned, and several garages and barns flattened. Several homes were damaged and vehicles were crushed by the trees and collapsed garages. A four stall garage was blown across a street, a few walls and chimneys were also damaged. In New Richmond, numerous falling trees and power lines were noted. A large metal shed containing styrofoam, lumber and insulation was leveled, leaving strips of the shed hanging on power lines. Barn and roof damage was extensive and large plate windows were shattered at an auto dealer. Bleachers at a ball park were also destroyed.														
Bloomer, Cornell, and Stanley, Chippewa Co.	23	1420-1515CST			0	0	4	?	Thunderstorm Wind					
Intense severe thunderstorm winds knocked down trees and power lines in Bloomer and Stanley. Just northeast of Cornell, the winds tore a foundation out of a barn, blew out windows of 2 houses, uprooted huge trees and ripped the roof of a mobile home.														
Baldwin, St. Croix Co.	25	2302CST			0	0	?	?	Hail (2.75)					
Hail up to the size of baseballs fell from a severe thunderstorm just north of Baldwin.														
Friendship, Adams Co.	25	2304CST			0	0	4	0	Thunderstorm Wind					
Gusty severe thunderstorm winds tore a 40-foot-wide 200-foot-long roof off the grandstand at the Adams County Fairgrounds. In addition, several large trees and power lines were knocked down.														
<b>WISCONSIN</b>														
Elkhart Lake, Sheboygan Co.	26	0215CST	0.2	50	0	0	5	?	Tornado (F1)					
A tornado ripped through a rural area just north of Elkhart Lake, leveling a 45 by 120 foot barn, damaging a house as its chimney collapsed, destroying 3 sheds, and uprooting and twisting numerous trees. In the barn, 2 bale elevators, a side rake, quack digger, 2 wagons, and a camper were crushed. Neighboring houses sustained roof, antenna, and granary damage. An apple tree was twisted off its base and carried 260 feet. In addition, numerous power lines were knocked down.														
Prescott, Pierce Co.	27	0230CST			0	0	4	?	Thunderstorm Winds (61)					
A severe thunderstorm packing winds up to 70 mph hit the Prescott area. Trees were knocked down and a 40 foot boat slip was picked up out of the water and placed on top of another.														
Durand, Pepin Co.	27	1400-1410CST			0	0	4	?	Thunderstorm Wind					
Powerful winds from a severe thunderstorm struck a rural area 5 to 10 miles east of Durand. A machine shed was ripped from its foundation and carried into a nearby cornfield. A storage shed was moved 2 feet off its foundation, several chopper wagons were knocked over and power lines were downed.														
Meridean and Rock Falls, Dunn Co.	27	1405CST			0	0	?	?	Thunderstorm Wind					
Several large trees and power lines were toppled by severe thunderstorm winds between Meridean and Rock Falls.														
Green Lake, Green Lake Co.	29	1245CST			0	0	?	?	Thunderstorm Wind					
Several power poles and lines were felled by severe thunderstorm winds in the Green Lake area.														
Ripon and Fond du Lac, Fond du Lac Co.	29	1308-1315CST			0	0	5	?	Thunderstorm Wind (52)					
A severe thunderstorm generated intense winds up to 60 mph which uprooted trees, downed power lines, destroyed several sheds and ripped the skirting off 4 trailer homes in Ripon. In Fond du Lac, the winds blew an airplane across the airport field, leveled trees, and lifted an 8,000 gallon fuel tank and smashed it into a building. Some trees were knocked onto homes, causing minor damage.														
West Bend and Jackson, Washington Co.	29	1335CST			0	0	0	0	Funnel Cloud					
	29	1357-1406CST			0	0	?	?	Thunderstorm Wind (61)					
A funnel cloud was sighted just north of West Bend. Violent thunderstorm winds gusting to 70 mph caused large trees and power lines to fall from West Bend to Jackson.														
Grafton, Saukville, and Cedarburg, Ozaukee Co.	29	1355CST			0	0	0	0	Funnel Cloud					
	29	1355-1415CST			0	0	4	?	Thunderstorm Wind (52)					
A severe thunderstorm with winds gusting to 60 mph produced scattered damage to trees and power lines in Saukville and Cedarburg. More extensive damage took place in Grafton where numerous large trees, one with a circumference of 13 feet 7 inches, were toppled. Some trees damaged 3 homes and 3 vehicles. In Saukville, windows were broken and shingles were blown off roofs of homes. A funnel cloud was spotted over Saukville.														
Fox Point and Milwaukee, Milwaukee Co.	29	1408-1438CST			0	0	?	?	Thunderstorm Wind (52)					
Gusting winds to 60 mph from a severe thunderstorm knocked down several large trees, some up to a foot in diameter in Fox Point and in Milwaukee's east side.														
Elkhart Lake, Sheboygan Co.	29	1410-1415CST			0	0	4	?	Thunderstorm Wind					
A severe thunderstorm knocked down trees and electrical wires, tore siding from a house and damaged a granary and farm equipment worth \$40,000; 1.5 miles northwest of Elkhart Lake.														
Pewaukee, Town of Lisbon, and Sussex, Waukesha Co.	29	1430CST			0	0	0	0	Funnel Cloud					
	29	1430-1442CST			0	0	3	?	Thunderstorm Wind (65)					
Intense thunderstorm winds up to 75 mph blew a porch off a house in Pewaukee and destroyed 2 sheds in the Town of Lisbon. A funnel cloud was noted over Sussex.														
Racine, Racine Co.	29	1510CST			0	0	4	?	Thunderstorm Wind (52)					
Intense thunderstorm winds gusting to 60 mph caused several large trees and power lines to fall. Some of the fallen trees caused minor property damage in the city of Racine.														

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>WISCONSIN</b>									
Westby, Vernon Co.	29	1520CST			0	0	4	?	Thunderstorm Wind
									A severe thunderstorm with very strong winds destroyed a 108 foot tobacco barn near Westby. A number of trees were also downed between Westby and Cashton.
Mount Horeb, Dane Co.	29	1630CST			0	0	5	0	Thunderstorm Wind
									A severe thunderstorm with very strong winds demolished a barn near Mount Horeb.
Beloit and Janesville, Rock Co.	29	1650-1710CST			0	0	5	?	Thunderstorm Wind (90)
									Violent severe thunderstorm winds measuring up to 104 mph at the Rock County Airport in Janesville damaged \$100,000 worth of planes, two of which were flipped over, two smashed into a sign and one blown 300 yards down the main runway. Numerous trees were knocked down in the area. In Beloit, trees and power lines were blown down.
Richland Center, Richland Co.	29	1705-1715CST			0	0	5	0	Thunderstorm Wind
									Numerous power lines and several large trees were toppled by severe thunderstorm winds around Richland Center. A barn was also partially destroyed 5 miles west of Richland Center.
Spokeville, Clark Co.	29	1710-1720CST			0	0	4	?	Thunderstorm Wind
									Severe thunderstorm winds caused several trees and power lines to fall around the Spokeville area. One tree landed on a house, causing minor damage.
Lime Ridge and Lake Redstone, Sauk Co.	29	1715-1720CST			0	0	4	?	Thunderstorm Wind (56)
									Violent thunderstorm winds gusting to 65 mph fell two large trees 1 mile south of Lime Ridge. At Lake Redstone, a pier and boat station were upended by the wind and 2 sailboats were lifted 50 feet into the air and put to rest in a clump of small trees, causing extensive damage.
Stoughton, Dane Co.	29	1755CST			0	0	4	0	Thunderstorm Wind
									Intense thunderstorm winds caused extensive damage to an apartment complex in the Town of Dunkirk near Stoughton when a tree fell on the building.
LaValle, Sauk Co.	29	1845CST			0	0	?	?	Thunderstorm Wind (52)
									A severe thunderstorm generated wind gusts to 60 mph at LaValle.
Waukega, Crawford Co.	29	1940CST			0	0	?	?	Thunderstorm Wind
									Power lines and large trees were knocked down by severe thunderstorm winds in Waukega.
Mount Ida and Mount Hope, Grant Co.	29	2000CST			0	0	?	?	Thunderstorm Wind
									A severe thunderstorm with strong winds toppled trees and power lines in the Mount Ida and Mount Hope areas.
Lake Onalaska, La Crosse Co.	30	1610CST			0	0	0	0	Funnel Cloud
									A funnel cloud was spotted at Lake Onalaska.
<b>48 WYOMING</b>									
Hot Spring County, 9N Thermopolis	05	2016MST			0	0	3	0	Thunderstorm Wind
									A strong thunderstorm nine miles north of Thermopolis knocked over a shed and killed a colt on a ranch. Also, a window was blown out on a building on the ranch.
Converse County, 5W Douglas	06	1603MST			0	0	0	?	Hail (1.50)
									At 1603MST a Converse County deputy sheriff observed one and a half inch diameter hail falling from a severe thunderstorm 5 miles west of Douglas.
<b>WYOMING</b>									
Platte County: 7S Wheatland	07	1310MST			0	0	?	?	Hail (1.75)
12S Wheatland	07	1320MST			0	0	0	0	4 Funnel clouds
8SE Wheatland	07	1400MST			0	0	?	?	Hail (1.25)
Goshen County, 15S Yoder	07	1600MST			0	0	0	0	Thunderstorm
									A line of severe thunderstorms developed along the Laramie Mountains after 1300MST and moved eastward. A few of these thunderstorms dropped one to one and three-quarter inch diameter hail south of Wheatland. Motorists driving on Interstate 25 between northern Laramie County and Wheatland in Goshen County reported four funnel clouds. At 1600MST telephone poles were knocked down south of Yoder.
Laramie County: Hillsdale	07	1645MST			0	0	0	?	Hail (.75)
4SE Cheyenne	07	1655MST			0	0	0	?	Hail (.75)
1S Cheyenne	07	1700MST			0	0	0	?	Hail (.50)
									Severe thunderstorms moved through Laramie County and deposited hail ranging from one-half inch to three-quarters of an inch in diameter.
Laramie Co, Albin	07	1705MST			0	0	0	3	Hail (.50)
Goshen Co, Yoder	07	1712MST			0	0	0	3	Hail (.50)
									Strong thunderstorms from south Platte County moved through south Goshen and northeast Laramie counties. These storms pelted crops with 1/2-inch diameter hail from Yoder south to Albin. Also, Yoder reported some heavy rain totaling over half an inch (.67).
WY2001 Northwest Mountains	09	2200MST			0	0	0	0	Snow
									Snow started to fall at times above 10,500 feet in the northeast section of Yellowstone National Park. Most of the snow melted as deposited on the roadway, but it did make roads slippery on Beartooth Pass. No snow accumulations were reported.
WY2015-016 Southern Mountains and Laramie Mountains	12	0630MST			0	0	0	0	Snow
									Light snow was falling at the 8,640-foot level on Interstate 80 between Cheyenne and Laramie at 0630MST. Snow was also falling in the southern mountains. Above 9,500 feet in the southern mountains snow fell at 0630MST and continued until 0830MST. One-half inch of snow accumulated on the ground. By 1100MST all snow was melted.
Weston Co, Newcastle	17	1737MST			0	0	?	?	Hail (.50)
Crook Co, Moorcroft	17	1753MST			0	0	?	?	Hail (1.00)
Campbell County: 14NE Recluse	17	1900MST			0	0	2	?	Hail (.75)
14NE Recluse	17	1915MST			0	0	0	0	Heavy rain
									Strong thunderstorms marched through Campbell, Crook and Weston counties. These thunderstorms pelted the area with one-half inch to one inch diameter hail. Heavy rain was also noted with the storms, with rainfall amounts varying from one-half an inch (.55) at Moorcroft to one and one-half inches (1.55) 14 miles northeast of Recluse.
Teton Co, Jackson	18	1045MST			0	0	0	0	Thunderstorm Wind (50)
									A thunderstorm moved over the Jackson Hole Airport and produced wind gusts to 58 miles an hour.
Teton County: 8S Jackson	21	1300MST			0	0	?	?	Thunderstorm Wind (52)
Jackson	21	1310MST			0	0	?	?	Thunderstorm Wind (50)
32N Jackson	21	1325MST			0	0	?	0	Hail (1.25)
32N Jackson	21	1325MST			0	0	?	0	Thunderstorm Wind (52)
Teton Village	21	1330MST			0	0	4	0	Hail (2.25)
Teton Village	21	1330MST			0	0	4	0	Heavy rain
8S Jackson	21	1330MST			0	0	3	0	Lightning
Teton Wilderness 45NE Jackson	21	1350 to 1400MST	24.3	2550	0	0	6	0	Tornado (F4)
Park Co, 45E Cody	21	1500MST			0	0	?	0	Heavy rain
									Some unusually severe thunderstorms swarmed over northwest Wyoming during the afternoon of July 21. One of the first indications of these severe thunderstorms was the 60 mile an hour wind gusts reported by a radio station in Jackson at



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>WYOMING</b>									
									<p>1300MST. As these severe thunderstorms moved northeast additional reports of hail between one inch and two and one-quarter inches in diameter were observed along with winds gusting above 58 miles an hour. Also, torrential rains were noted from Jackson northeast to Cody.</p> <p>When these severe thunderstorms moved northeast of Jackson over the Teton Wilderness Area it spawned the highest elevation F4 tornado ever documented. The devastating winds from the tornado produced a massive blowdown of 15,000 acres of mostly mature lodgepole pines which ranged from 80 to 100 feet tall. The massive blowdown stretched slightly over 24 miles from Box Creek Trailhead, 10 miles east-northeast of Moran Junction, on the south to beyond the Yellowstone River on the north and was about 1 to 2 miles wide, 2.5 miles at the widest. An eyewitness to the blowdown stated, "You could look up a hillside where there had been a dense forest and count the trees left standing."</p> <p>Later, as these severe thunderstorms moved over the East Entrance of Yellowstone National Park, torrential rains produced mudslides which closed highways for a few hours. The Park County sheriff reported that some of these mudslides buried about 50 yards of highway to a depth of 2 feet.</p>
Fremont County: Lander	21	1530MST			0	0	?	0	Thunderstorm Wind (56)
Kinnear	21	1605MST			0	0	?	0	Thunderstorm Wind
									Severe thunderstorms that affected northwest Wyoming during the afternoon of July 21 moved into west-central Wyoming by late afternoon. Wind gusted to 64 miles an hour at Hunt Field in Lander at 1530MST. A little later at 1605MST winds were gusting between 50 to 60 miles an hour at Kinnear. The town of Kinnear is located about 20 miles west of Riverton.
Natrona County, 25N Casper	21	1650 to 1700MST	5	175	0	0	0	0	Tornado (F2)
									At 1650MST severe thunderstorms moved through Natrona County and spawned a tornado 25 miles northwest of the Natrona County Airport, west of Casper. No damage reports were received.
Sweetwater County, 20S Green River	21	1815MST			0	0	?	0	Hail (.75)
									Severe thunderstorms moved through south Sweetwater County at about 1815MST. These thunderstorms deposited three-quarter of an inch diameter hail and heavy rain over the Flaming Gorge National Recreational Area.
Albany County, 8E Laramie	28	1430MST			0	0	3	0	Lightning
									Heavy thunderstorms rumbled into the city of Laramie during the afternoon. Several lightning strikes were reported in the city with a few trees damaged by lightning.
Natrona Co, Casper	28	1658MST			0	0	0	0	Heavy rain
									At 1658MST a strong thunderstorm moved over the Natrona County Airport west of Casper. This storm dumped over one inch (1.08) of rain in about 23 minutes. Eighth of an inch diameter hail was also reported with this storm.
Campbell County: Savageton	30	2045MST			0	0	?	?	Hail (0.50), Heavy rain
8S Gillette	30	2130MST			0	0	6	?	Thunderstorm Wind (50)
8S Gillette	30	2130MST			0	0	4	0	Lightning
Crook County, 7W Moorcroft	30	2140MST			0	0	?	?	Hail (0.50), Heavy rain
									A very strong thunderstorm developed near Savageton, about 40 miles southwest of Gillette, at 2045MST. This storm at Savageton drenched the town with one and a half inches (1.50) of rain in 35 minutes along with one-half inch diameter hail. The storm later moved northeast during the next few hours and damaged structures in the south and east sections of Gillette. As the thunderstorm moved into Gillette, 50 to 60 mile an hour winds raked the area along with one and one half inches (1.50) of rain in 1 hour. This storm destroyed 1 unoccupied mobile home. Other damages included numerous horse stalls destroyed, sections of roofs partially destroyed and many city and state road signs severely damaged. Also, lightning struck a home in Gillette and knocked a hole in the ceiling. Many streets and a few apartments were flooded due to the torrential rains between 2100 and 2200MST. Later that night the very strong thunderstorm moved into Crook County with heavy rain and one-half inch diameter hail west of Moorcroft.
<b>49 ALASKA, Northern</b> ————— NO REPORT RECEIVED									
<b>49 ALASKA, Southern</b>									
Copper River Basin	14	Morning			0	0	5	0	Flash Flood
									Heavy rains over the northern portion of the Copper River Basin caused mudslides and washouts which closed the Richardson Highway through Isabel Pass from Paxson to Big Delta.
<b>49 ALASKA, Southeastern</b> ————— NONE REPORTED									
<b>50 HAWAII</b>									
HIZALL All Islands	21-23				1	0	5	5	Flash Flooding
									A low pressure system mainly in the upper flow moved slowly westward over the area, bringing heavy showers to Hawaii on the 21st, Oahu on the 22nd, and Kauai on the 23rd. Flash flood damage was mostly minor. One person drowned near Sacred Falls on Oahu while picking mountain apples in a creek bed which rapidly filled up with water from rain that fell in the drainage area above. Most of the heavy showers occurred during afternoon and early evening hours and were mainly restricted to windward slopes.
<b>51 PUERTO RICO</b> ————— NONE REPORTED									
<b>52 VIRGIN ISLANDS</b> ————— NONE REPORTED									
<b>53 PACIFIC</b> ————— NONE REPORTED									





# STORM DATA AND UNUSUAL WEATHER PHENOMENA

## LATE REPORTS

## CORRECTIONS

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

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	

### 17 MAINE

MAY 1987

Penobscot Co., Bangor	01 1030EST	0	0	4	0	High Wind	High winds estimated at more than 50 MPH by FAA Flight Service Station personnel took down five utility poles on outer Broadway, trapping two men inside a car for about 30 minutes. Power to the area between Griffin Road and Kenduskeag Avenue, including Birch Hill Estates, was out for several hours.
York Co., Eliot	31 1400 to 1430EST	0	0	5	0	TSTM Wind	Severe thunderstorm winds took down eight trees and caused power failures. River, Tidy, Boyce, Houde, Worster, and Goodwin roads were blocked by trees and fallen power lines. One tree fell on a house causing \$10,000 damage and another landed on a truck doing about \$6,500 damage.
Cumberland Co.; Casco, N. Raymond, and Gray	31 1530 to 1545EST	0	0	3	0	TSTM Wind	A severe thunderstorm produced winds that took down trees and power lines.
York Co., Limington	31 1545EST	0	0	2	0	TSTM Wind	A severe thunderstorm produced winds that gusted to more than 60 MPH.
Cumberland Co.; Standish and Windham	31 1545 to 1600EST	0	0	3	0	TSTM Wind	A severe thunderstorm produced winds that took down trees.
York Co., Buxton	31 1600EST	0	0	2	0	TSTM Wind	A severe thunderstorm produced winds that gusted to more than 60 MPH.
Cumberland Co., Gorham	31 1600 to 1615EST	0	0	3	0	TSTM Wind	A severe thunderstorm produced winds that took down trees.

### 27 NEW HAMPSHIRE

MAY 1987

Carroll Co., Wolfeboro	29 2310EST	0	0	5	0	Lightning	Lightning struck the cupola of the 115-year-old historic Wolfeboro Railroad Station, setting the attic on fire. The fire was quickly extinguished but damage to the roof and some office space was extensive.
Belknap Co., Gilmanton	31 1434 to 1445EST	0	0	3	0	TSTM Wind	Severe thunderstorm winds took down trees and power lines, disrupting electrical service to about 1100 people.
Strafford Co.; Rochester, Gonic, Dover, and Durham	31 1445 to 1500EST	0	0	5	0	TSTM Wind	Severe thunderstorm winds knocked down several trees, disrupting power in the Dover Points section of Dover, took down power transmission lines in Durham, took down trees and damaged a roof at the Country Club in Rochester, and devastated a section of the Paradise Home Park in Gonic. In the mobile home park, the roof was ripped off one mobile home and several 60-foot pine trees fell across other mobile homes.
Rockingham Co.; Newmarket, Portsmouth, Newton, Kingston, Exeter, and Seabrook	31 1500 to 1515EST	0	0	4	0	Lightning	Thunderstorms moving through the area produced lightning that struck transformers and 45 MPH winds that caused small limbs to fall on power lines, disrupting electrical service to about 10000 people.

### 28 NEW JERSEY, Southern

JUNE 1987

TIME CHANGE:	13 1815EST	0	0	?	?	Hail (1.75)	Times for the following entries from page 52 are corrected as shown:
Burlington County:	13 1835EST	0	0	?	?	Hail (0.75)	
2 NW Mount Holly							Golfball size hail fell near Mount Holly (West Hampton Township) and 3/4 inch hail fell near Browns Mills.
3 E Browns Mills							
Ocean County:							
Beach Haven	13 2020EST	0	0	?	0	TSTM Wind (60)	
Lakewood	13 2050EST	0	0	3	0	TSTM Wind	Thunderstorm wind gusts were measured at 50 to 60 knots at the Beach Haven Coast Guard Station.
5 N Toms River	13 2100EST	0	0	3	0	TSTM Wind	Thunderstorm winds brought down power lines in Lakewood and in Dover and Berkley Townships around Toms River.
3 W Toms River	13 2100EST	0	0	3	0	TSTM Wind	

### 36 PENNSYLVANIA, Eastern

JUNE 1987

TIME CHANGE:	8- 1835EST	0	0	3	0	TSTM Wind	Times for the following entries from page 60 are corrected as shown:
Centre County:	8 1835EST	0	0	3	0	TSTM Wind	
Pleasant Gap							Thunderstorm winds downed trees in Pleasant Gap and Aaronsburg.
Aaronsburg							

## STORM SUMMARY

## LATE REPORTS

MAY 1987

Page 66: MAINE	- Thunderstorm Winds - Property Damage = 5
	- High Winds - Property Damage = 4
Page 66: NEW HAMPSHIRE	- Thunderstorm Winds - Property Damage = 5
	- Lightning - Property Damage = 5

## CORRECTIONS

MAY 1987

Page 66: MASSACHUSETTS	- Lightning - Deaths = 0 (vice 1)
Page 67: National Death & Injury Totals	- Lightning - Deaths = 15 (vice 16)

JUNE 1987

Page 78: TEXAS	- Tornadoes - Number = 21 (vice 19)
----------------	-------------------------------------

## REFERENCE NOTES

## STORM DAMAGE CATEGORIES

- 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

- 0/Blank None reported.  
\* Miles instead of yards.  
\*\* Yards instead of miles.  
@ Includes heavy sleet storm.  
# Freezing drizzle and freezing rain, commonly known as glaze.  
≠ Report incomplete.  
≠≠ Report not received.  
o/c Indicates Crop Damage amount is included in the value given for property damage.

When reports are not received or are incomplete, the Storm Summary National Death and Injury totals may also be incomplete.

### Definition of Fujita Tornado Scale (F scale)

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

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

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

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

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

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

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

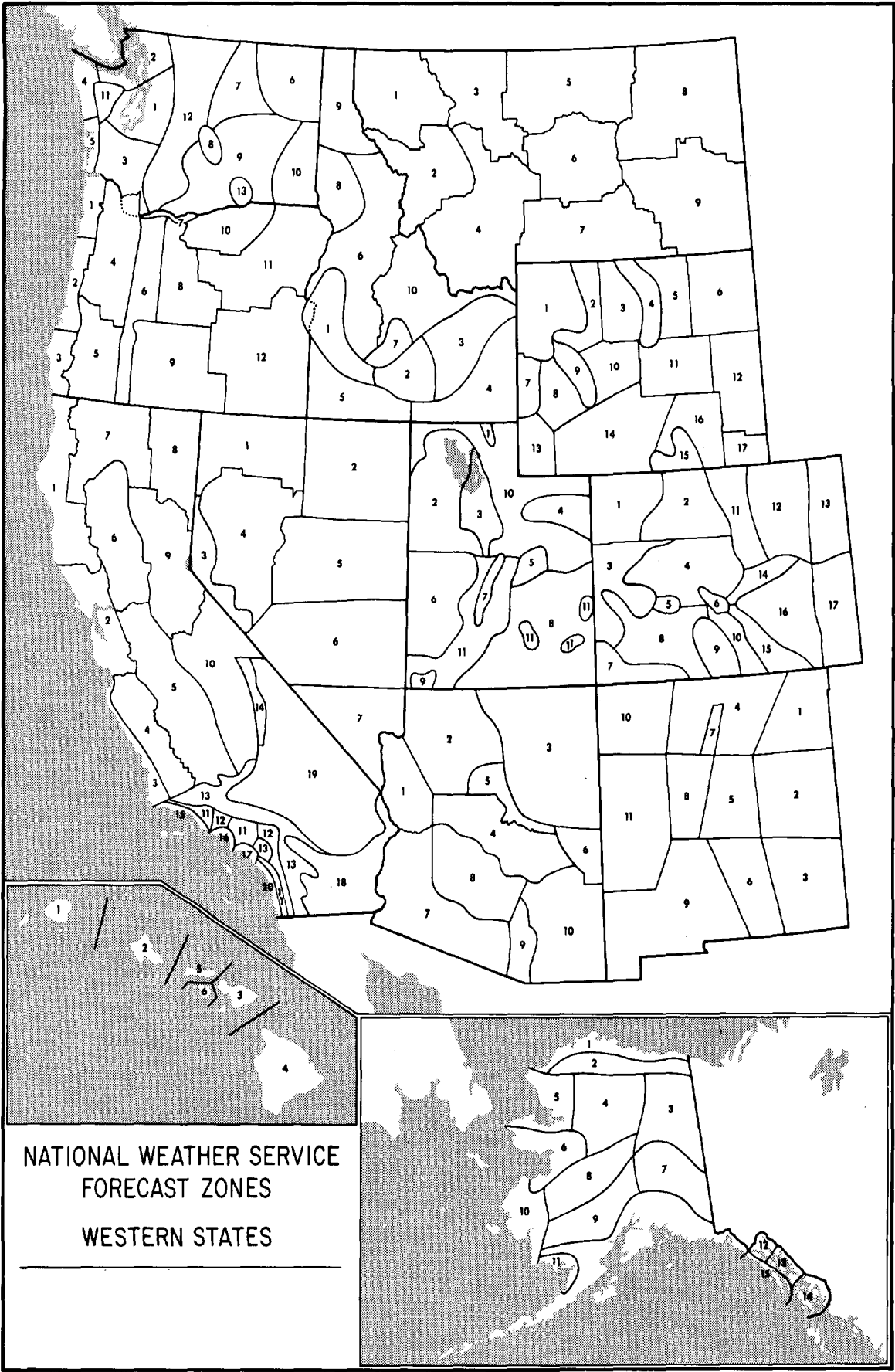
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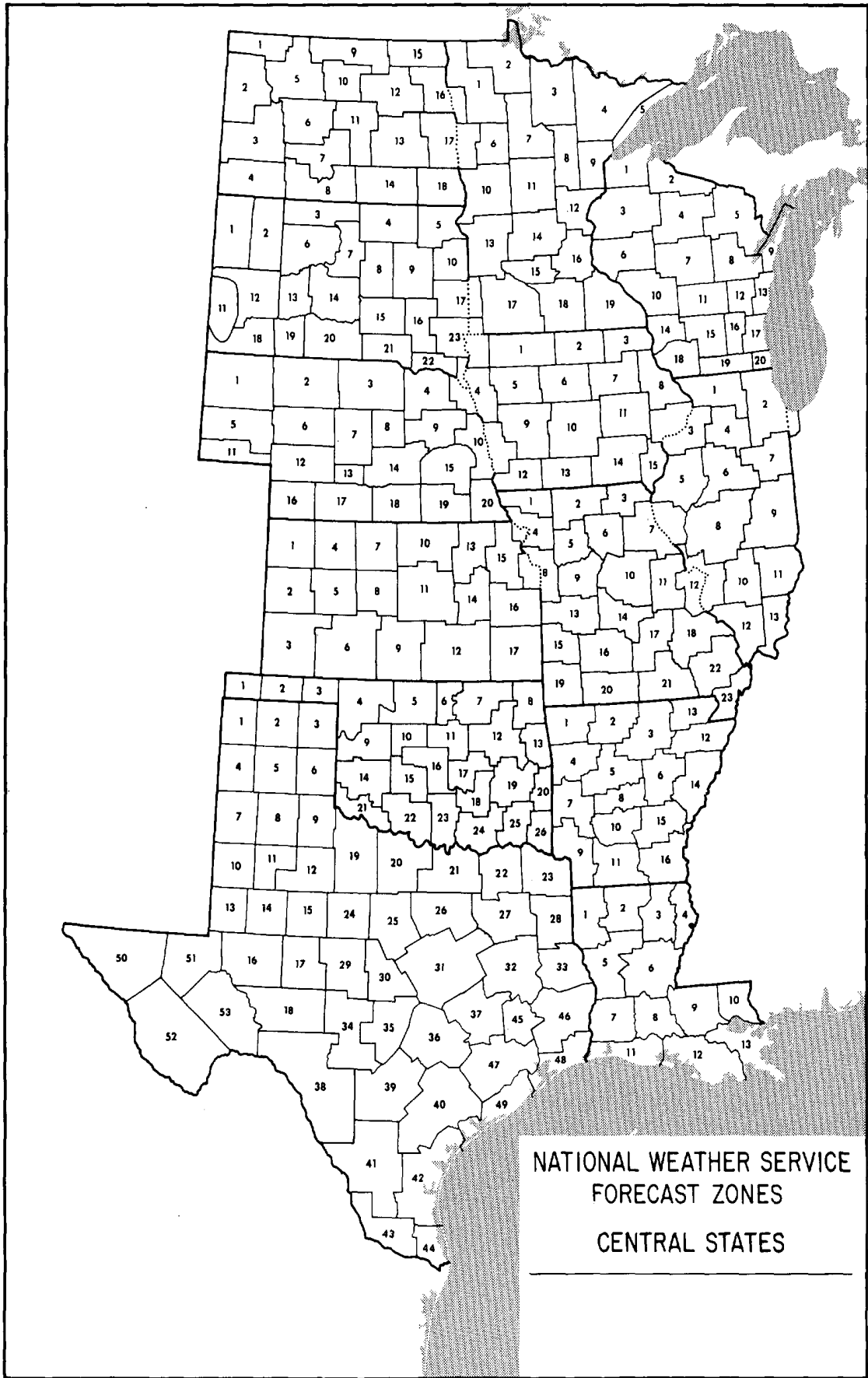
(F0+F1) *Weak Tornado*  
(F2+F3) *Strong Tornado*  
(F4+F5) *Violent Tornado*

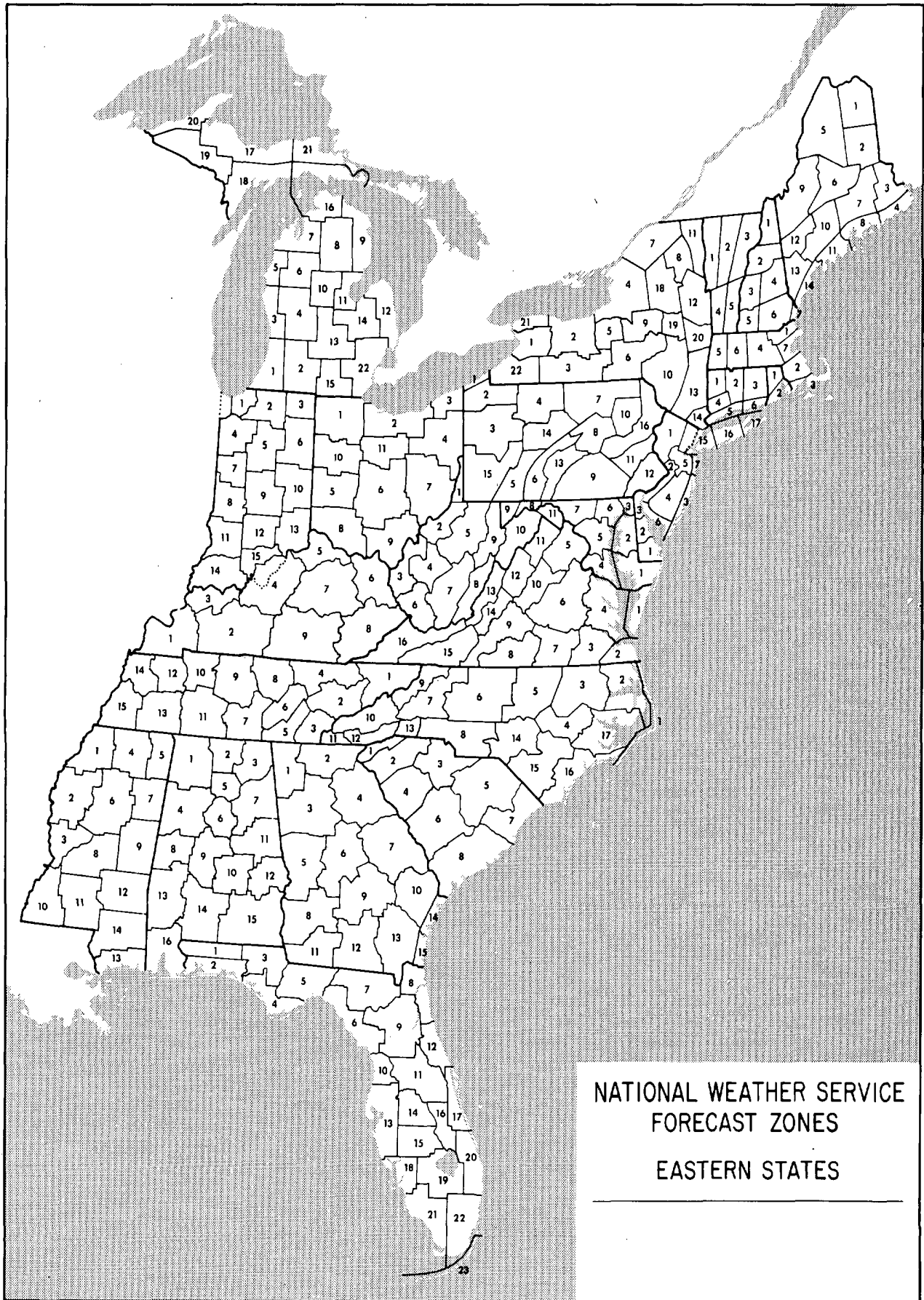
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From J. Atmos. Sci., August 1981, p. 1517-1519









NATIONAL WEATHER SERVICE  
FORECAST ZONES  
EASTERN STATES



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DECEMBER  
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**CLIMATOLOGICAL DATA  
ANNUAL SUMMARY**

ARIZONA


NUMBER 13

ISSN 0364-8084

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PRECIPITATION DATA**

ARIZONA

VOLUME 35 NUMBER



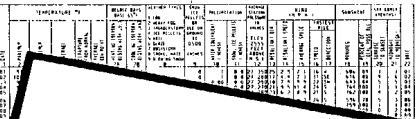
ISSN 0145-0387

**CLIMATOLOGICAL DATA**

ARIZONA

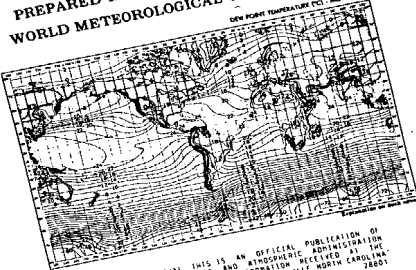
ISSN 0145-0387

**LOCAL  
CLIMATOLOGICAL DATA**  
Monthly Summary



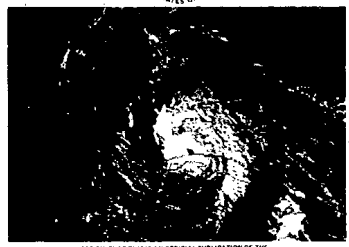
**MONTHLY CLIMATIC  
DATA FOR THE WORLD**

PREPARED IN COOPERATION WITH THE  
WORLD METEOROLOGICAL ORGANIZATION



NOAA NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

**STORM DATA**



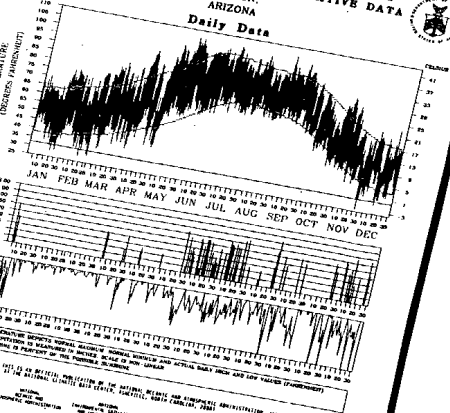
NOAA NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

ISSN 0145-0387

**LOCAL CLIMATOLOGICAL DATA  
ANNUAL SUMMARY WITH COMPARATIVE DATA**

TUCSON,  
ARIZONA

Daily Data



NOAA NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Association of State Floodplain Managers, Inc.  
Presents

# FLOODPLAIN

Note the Past  
Tune the Future!

NASHVILLE  
1988



12th ANNUAL CONFERENCE  
MAY 16-19, 1988

VANDERBILT PLAZA HOTEL  
NASHVILLE, TENNESSEE  
Hosted by the Tennessee Valley Authority

# HARMONY

## Conference Director

Leslie A. Bond  
Suite 1  
221 East Camelback Road  
Phoenix, AZ 85012  
(602) 831-0192

The Association of State Floodplain Managers (ASFPM) is a national organization, and its goal is the reduction of flood hazards through sound floodplain management. Its members include representatives of local, State, and Federal government as well as those of the private and nonprofit communities. The Association sponsors an annual conference on the state-of-the-art in flood hazard reduction. Conference topics always span a broad spectrum of issues of interest to those involved in floodplain management.

## Program Chair

William L. Trakimas  
Division of Water  
2475 Directors Row  
Indianapolis, IN 46241  
(317) 232-4178

The Federal Interagency Floodplain Management Task Force has commissioned a study of the status and effectiveness of the Nation's floodplain management activity to fulfill recommendations set forth in the document "A Unified National Program for Floodplain Management." Special emphasis is to be placed on the floodplain management tools contained in this document. A status report is now being prepared. The Task Force has requested the assistance of the ASFPM in the second part of the study—an evaluation of the effectiveness of floodplain management measures—and the ASFPM has agreed to devote a portion of its 1988 conference to this effort.

## Exhibits Chair

Sue Josheff  
Natural Resources  
Post Office Box 7921  
Madison, WI 53707  
(608) 266-2709

The following specific topics are presented to enhance the discussion and evaluation of the effectiveness of floodplain management efforts during the Association's 1988 conference.

- Efforts in analysis and management of special problem areas, e.g., alluvial fans, shifting streambeds, etc.
- Multiobjectives planning processes for the management of floodplains
- Effectiveness of floodplain management tools, whether individually or in tandem
- How the full range of benefits from nonstructural measures can be better identified and quantified
- How nonstructural measures can be made more attractive to local governments
- Examples of wise or beneficial uses of the floodplain
- Solving specific floodplain management problems through a combination of selective tools and strategies
- How we can increase the public official and individual decisionmaker's awareness of flood hazard areas and the understanding of flood risk

## About the Conference

The technical conference will run Tuesday through Thursday, including a field trip in the Nashville area. The conference will revolve around the idea of floodplain partners working in harmony as we evaluate the status of the Nation's floodplain management activity. Attendees will be encouraged to share their views as we try to "tune the future" in floodplain management. The ASFPM will conduct its committee and general membership meetings on Monday. All members and prospective members are invited and encouraged to participate. Wednesday afternoon is set aside for an interesting field trip culminating in a "catfish fry" that evening. Optional field trips and spouse activities are also being planned.

The conference will be staged at the beautiful **Vanderbilt Plaza Hotel** located on the west side of Nashville, across from Vanderbilt University. Conference room rates are \$65 single and \$79 double. Printers Alley, Music Row, Centennial Park, and Vanderbilt University are within easy walking distance of the hotel.

## Registration Rates

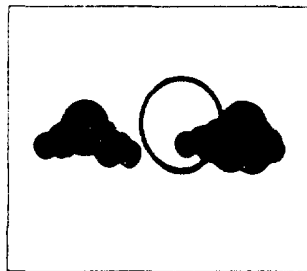
Registration prior to April 2, 1988, will be \$150 for members, \$165 for nonmembers, and \$65 for students and local government officials from the State of Tennessee.

## Exhibit Space

Exhibit space will be made available for a fee to individuals or organizations who wish to display a product or service to attendees. Information on exhibit space can be acquired from Sue Josheff, Exhibits Chair.

## About Nashville

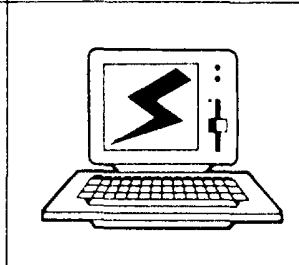
There is no better place to promote "floodplain harmony" than in Music City, USA. Located in the heart of Tennessee along the Cumberland River, Nashville's heart beats to music! May in Nashville provides visitors with pleasant temperatures, and the air is filled with the sounds of country. Within a short distance of the hotel is Opryland USA and the Grand Ole Opry—attractions you do not want to miss. Music brings you to Nashville, but it's the warmth and friendliness of the people you remember. Nashville loves company, come and see in 1988!



COMPUTATIONAL  
HYDROLOGY  
INSTITUTE

**CHI**

18021-J Sky Park Blvd., Suite 524  
Irvine, CA 92714



## COMPUTATIONAL HYDROLOGY 88

*Second International Symposium on Computational Methods  
In Flood Control Hydrology & Hydraulics, Surface &  
Subsurface Hydrology, and Water Resources Engineering*

San Diego, California  
July 10 - 13, 1988

Chief among the concerns of environmental impacts are the effects of storm runoff on existing and urbanized watersheds. Such concerns as stormwater management, surface runoff pollution, and methods for hydraulic and hydrologic modeling are only a few of the many problems faced by today's private engineering concerns and public agencies. This international conference, COMPUTATIONAL HYDROLOGY 88, aims at providing a forum for presenting the latest innovative and applied computational methods in flood control hydrology and hydraulics, surface and subsurface hydrology, and water resources engineering.

### Objectives

The major objective of COMPUTATIONAL HYDROLOGY 88 is the creation of a proper forum of discussion among managers, scientists, and engineers involved in the creation, development of application of computer software to hydrologic problems. COMPUTATIONAL HYDROLOGY 88 will present the most recent developments and practical implementations in the theoretical, numerical and applicable aspects of computer analysis, simulation modeling, control and forecasting for hydrologic applications. The conference aims at the establishment of a useful connection between originators of hydrologic software programs and their possible users, thus reducing the present large duplication of effort in software development.

### Conference Chairmen

**T.V. Hromadka, Ph.D., Ph.D., P.E.**  
California State University, Fullerton  
Department of Mathematics  
Fullerton, CA 92634

**J.J. DeVries, Ph.D., P.E.**  
Associate Director,  
Water Resources Center  
University of California, Davis

**R.H. McCuen, Ph.D., P.E.**  
University of Maryland  
Department of Civil Engineering  
College Park, MD 20742

**H.H. Chang, Ph.D., P.E.**  
Department of Civil Engineering  
San Diego State University, CA



ASSOCIATION OF STATE

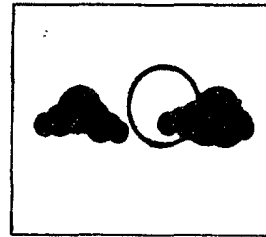
FLOODPLAIN MANAGERS, INC.

TWELFTH ANNUAL CONFERENCE

Hosted by the  
Tennessee Valley Authority

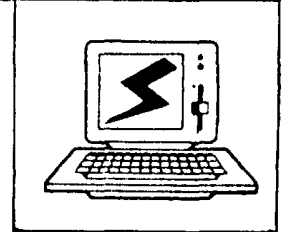
VANDERBILT PLAZA HOTEL  
NASHVILLE, TENNESSEE

MAY 16-19, 1988



COMPUTATIONAL  
HYDROLOGY  
INSTITUTE

**CHI**



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SAN DIEGO, CALIFORNIA

JULY 10-13, 1988

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\* FURTHER INFORMATION INSIDE \*  
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