

STORM DATA



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DIRECTOR
NATIONAL CLIMATIC DATA CENTER

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C O N T E N T S

Cover: An F2 tornado spins through farm country near Kennebec, South Dakota on August 5, 1987. The twister was the strongest of 15 tornadoes that visited Lyman County on three different days in a one-month period. (See TORNADOES in LYMAN COUNTY, SOUTH DAKOTApage 21.) ---Photo by Dooley Shroyer of Reliance, South Dakota; supplied by Lee C. Anderson, NWSFO at Sioux Falls, SD.

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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.

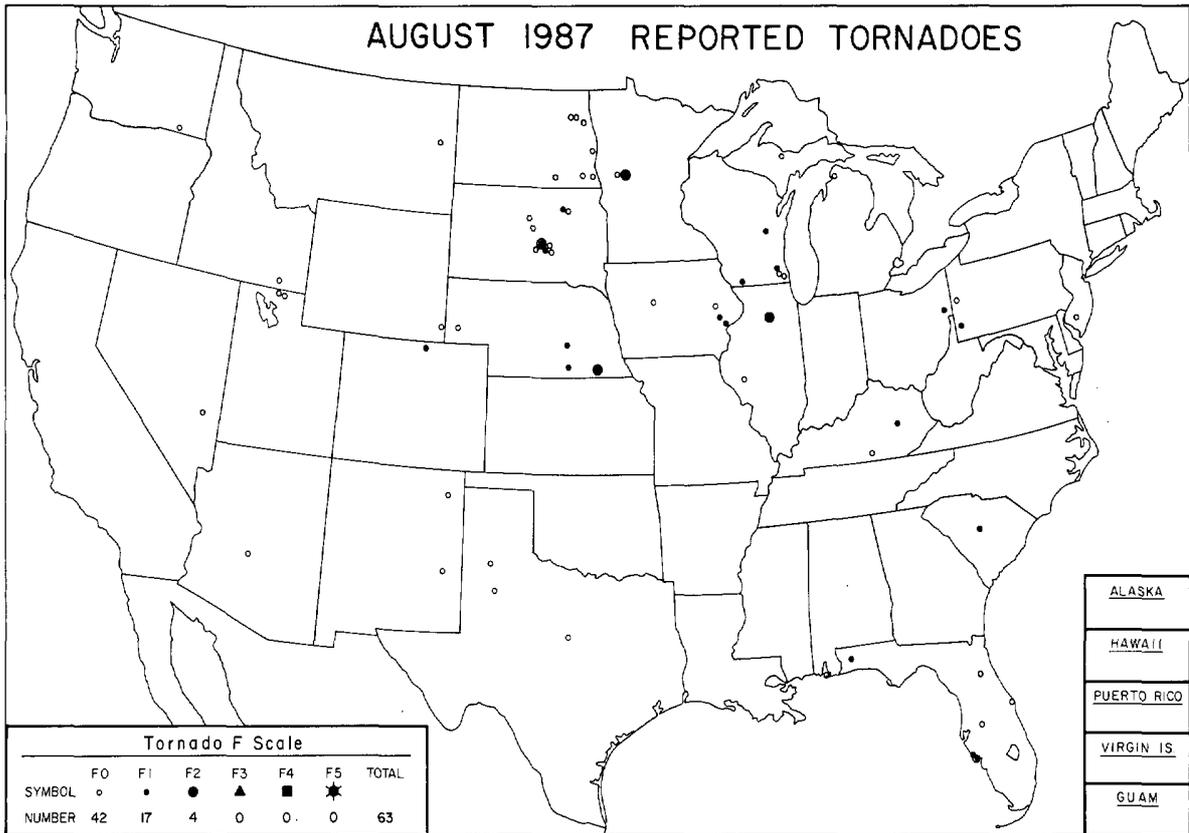
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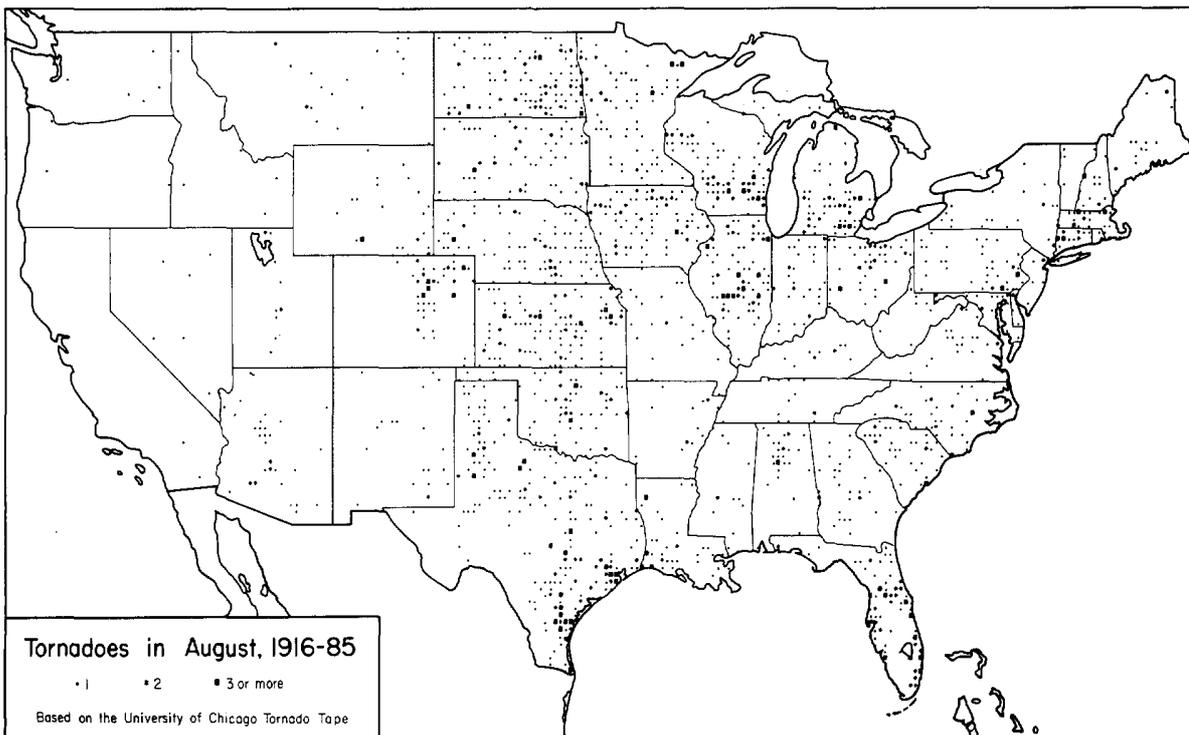
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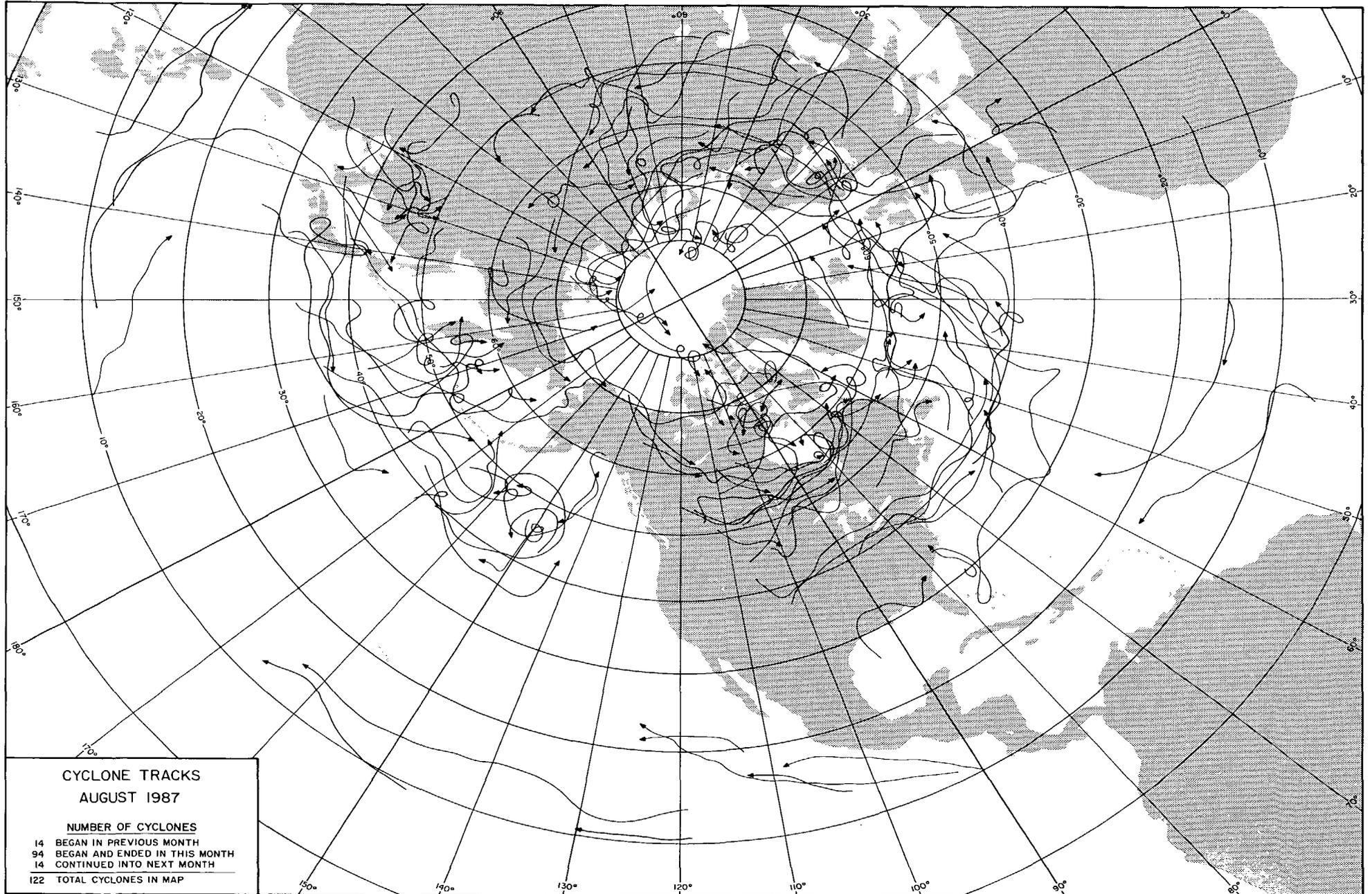
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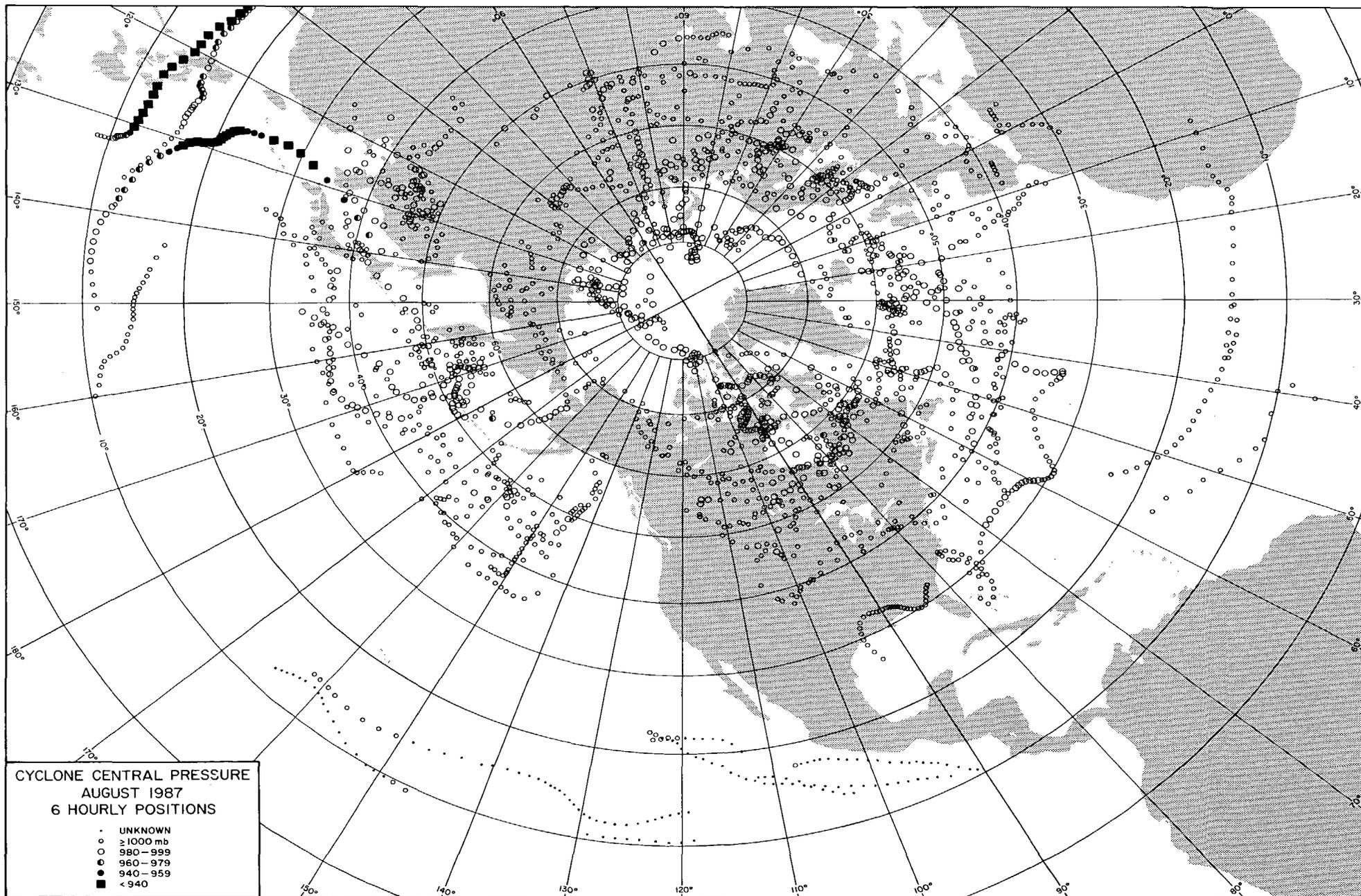
OUTSTANDING STORMS OF THE MONTH



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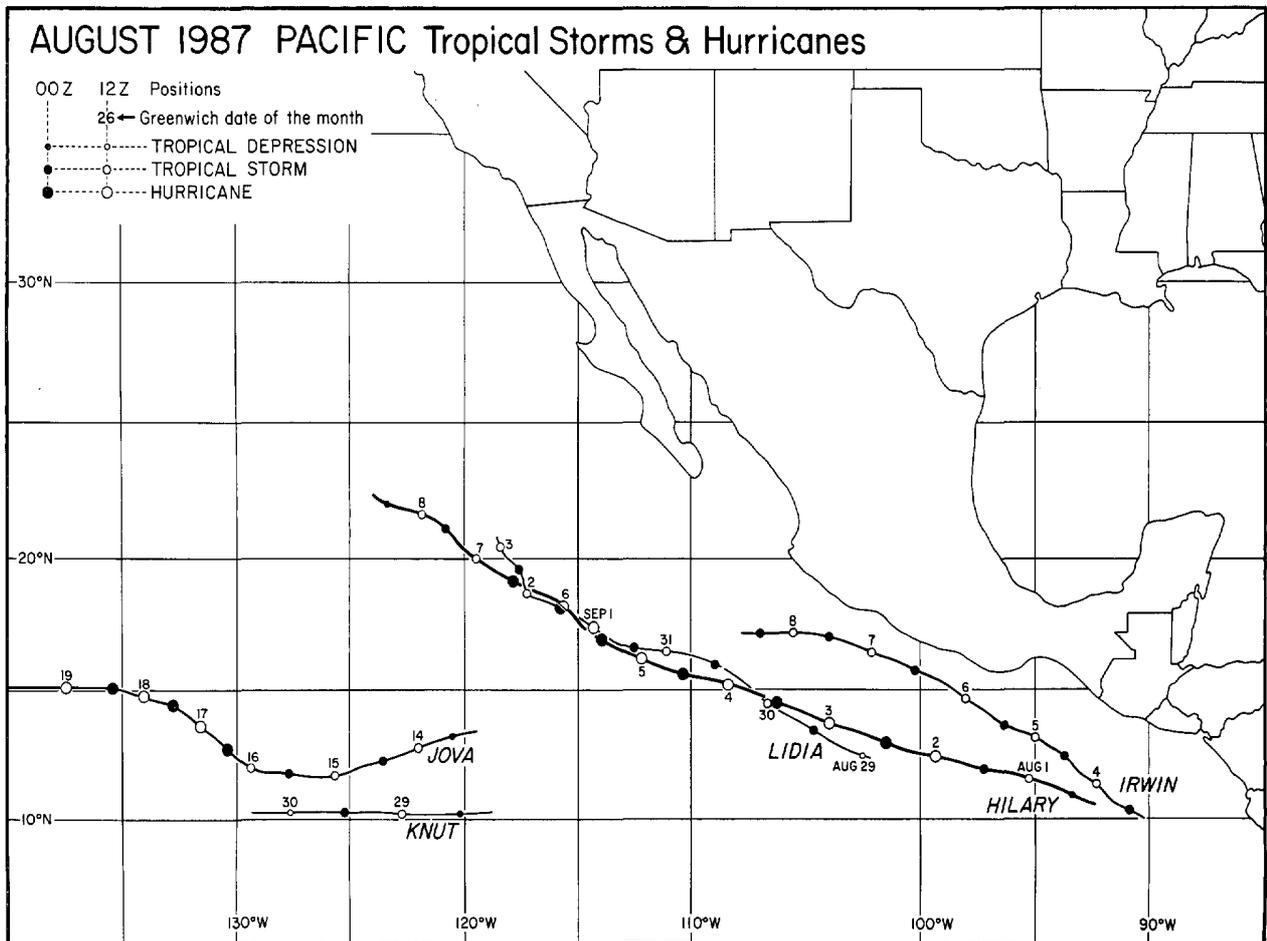
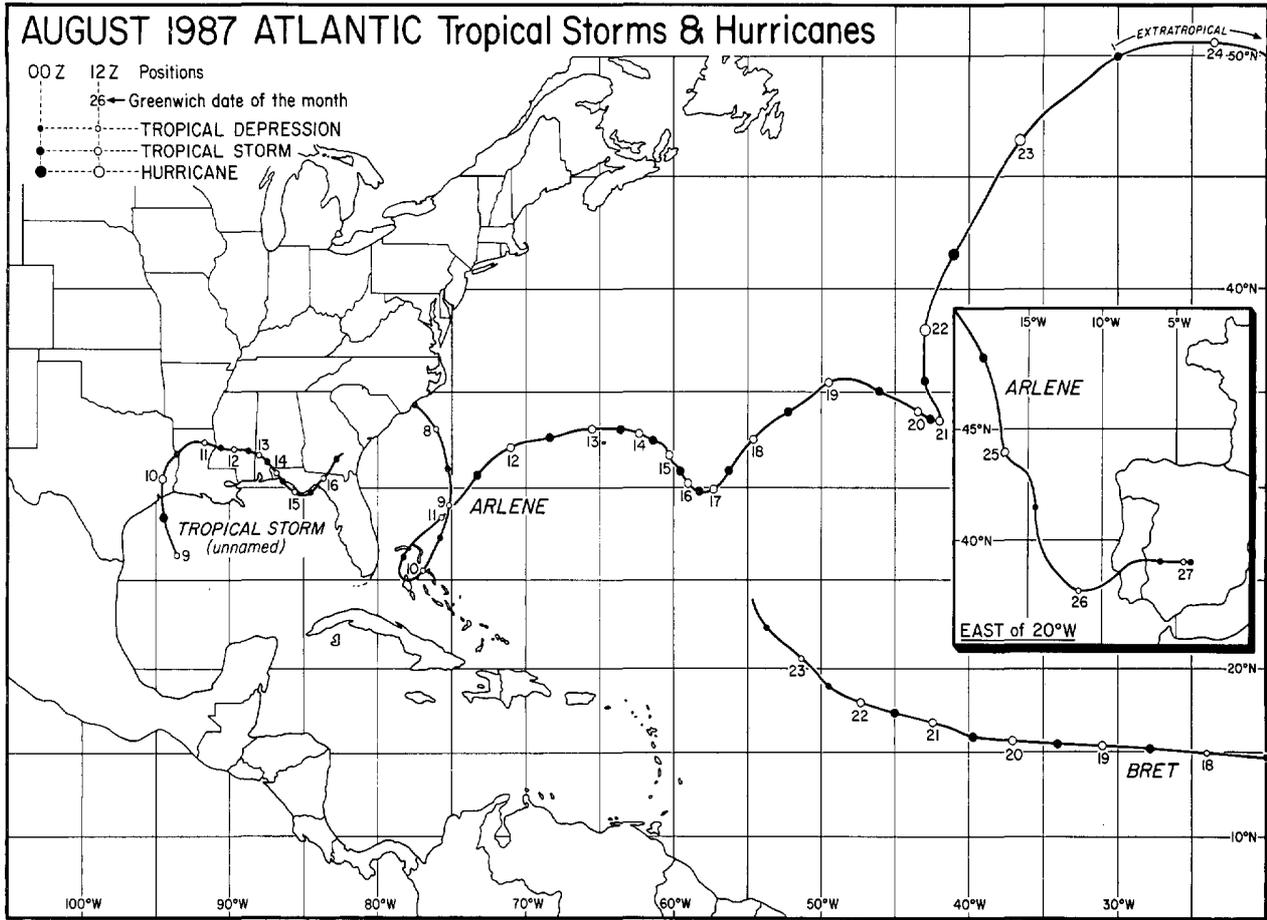




CYCLONE CENTRAL PRESSURE
AUGUST 1987
6 HOURLY POSITIONS

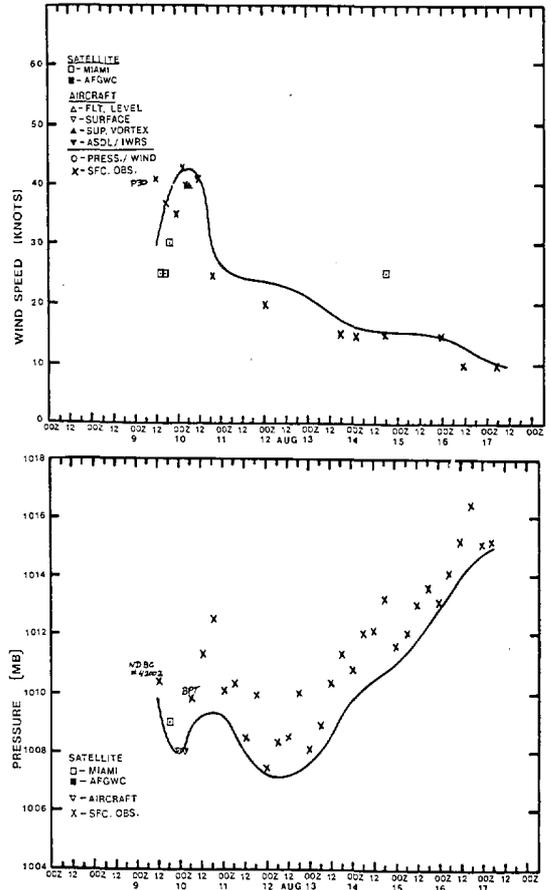
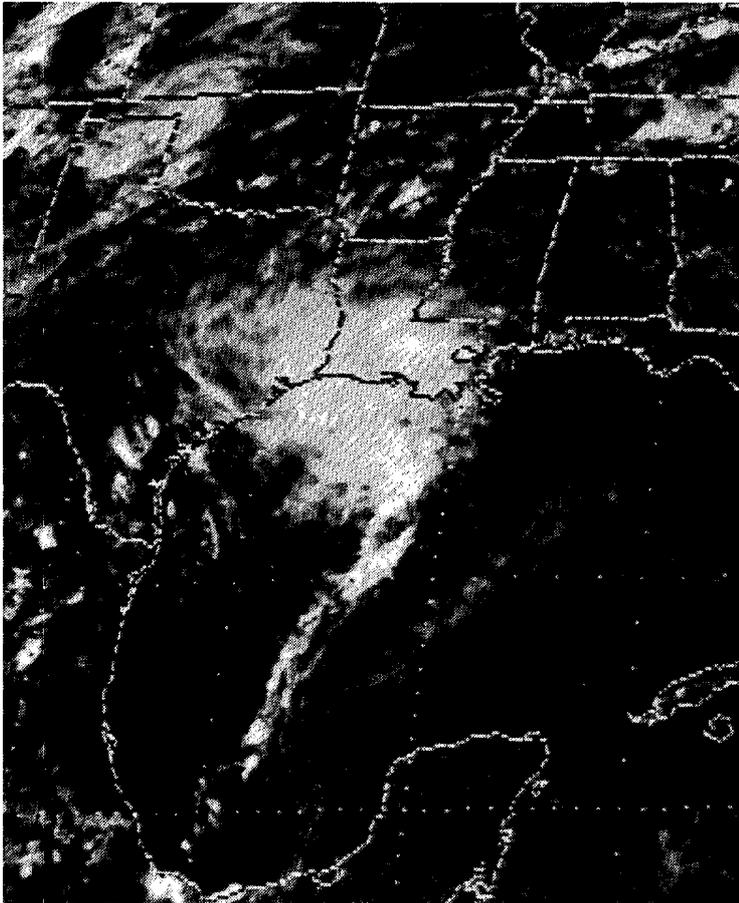
- UNKNOWN
- ≥ 1000 mb
- 980-999
- 960-979
- 940-959
- < 940

TROPICAL STORMS AND HURRICANES



TROPICAL STORMS and HURRICANES ---- continued

An unnamed tropical storm was quick to move inland shortly after forming in the northwestern Gulf of Mexico on August 9th, and attained tropical storm status for only a few hours prior to its landfall along the Texas-Louisiana coast. Only a few oil rigs reported sustained winds of 35 knots, and since it appeared the winds might be related to convection rather than the circulation at the time of the storm, the system was not upgraded or named. After-the-fact upgrading from subtropical to tropical storm status was based on a re-evaluation of wind data, the storm's tropical cloud pattern, and the tendency for the system to maintain itself with a spiral, bandlike structure for several days after its landfall.



LEFT: A GOES 6 satellite, visible image of the unnamed tropical storm in a developing stage at 2101UTC (1501CST) on August 9th, nine hours prior to its landfall. RIGHT: Plots of estimated maximum wind speed and minimum surface pressure versus time for the unnamed tropical storm of August, 1987.

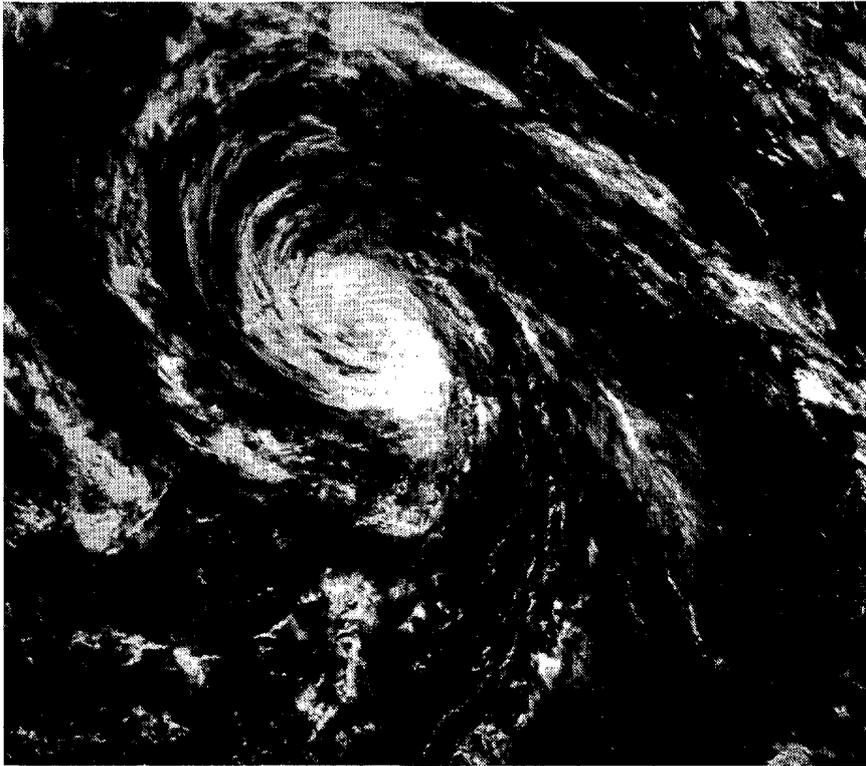
IDENTIFICATION	LOCATION		ELEVATION (ft)	DIR (deg)	SPD (kt)	GUST (kt)	DATE	TIME (UTC)	ADJ	ADJ
	Lat.	Lon.							SPD*	SPD**
P30 (WC533)	MOBIL	28.3N 93.0W	100	240	41	—	9	1211	35	37
P26 (GI94)	MOBIL	28.5N 90.1W	100	207	35	—	9	2311	30	32
SM 108G	CONOCO	28.4N 92.0W	80	180	31	37	9	1744	27	29
WC 459A	CONOCO	28.3N 93.0W	80	180	34	35	10	0408	30	31
VR 242A	CONOCO	28.6N 92.6W	90	180	36	41	10	0514	31	33
WC 66C	CONOCO	29.7N 93.1W	70	135	39	47	10	0408	35	37
EC 42B	CONOCO	29.5N 92.8W	70	090	43	49	10	0408	39	40
VR 119G	CONOCO	29.1N 92.5W	80	200	41	57	10	1208	36	38
EC 97A	CONOCO	29.2N 92.8W	80	160	33	41	10	0408	29	31
S.TIMBIA- LIER 151	GULF	28.6N 90.3W	125	225	37	—	9	1805	31	33

* Speed adjusted to 10-meter level using 1/7 power law.
 ** Speed adjusted to 10-meter level using the Liu, Katsaros, Businger Model (1979).

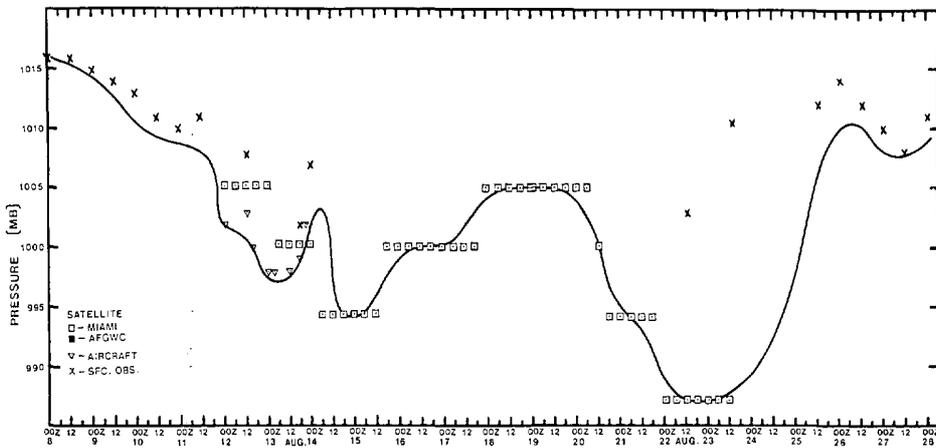
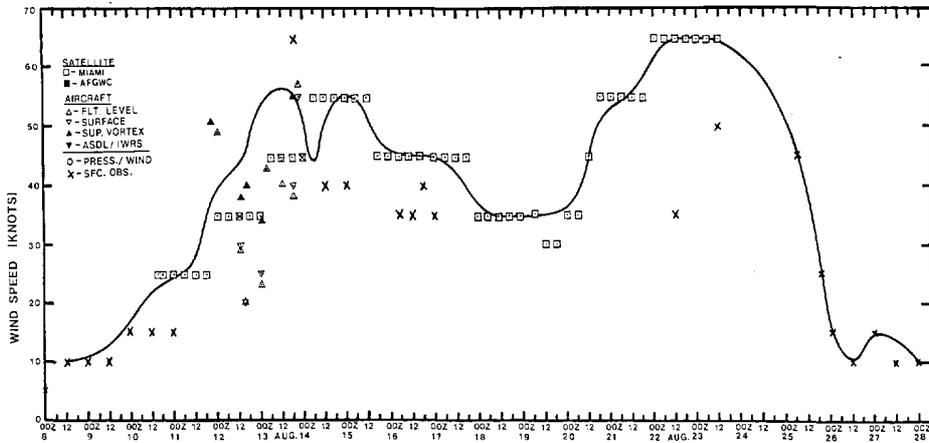
LOCATION	RAIN AMOUNT	
	24-HR (INCHES)	STORM (INCHES)
Steinhagen, TX	3.50	—
Covington #3, LA	3.65	4.89
Baker, LA	8.70	8.70
BTR Central, LA	5.83	6.50
BTR Concord, LA	3.86	4.54
BTR Sherwood, LA	4.67	4.90
Greenwell Springs, LA	6.85	7.19
New Roads, LA	6.22	6.22
Oaknoia, LA	5.54	5.92
Port Allen, LA	3.73	3.73
St. Francisville, LA	6.03	7.25
Watson 3 ENE, LA	7.02	7.32
Zachary, LA	4.11	4.57
LSU Dean Lee Res Stn, LA	4.50	5.05
Winnfield, LA	3.77	6.19
Hammond 5 E, LA	4.50	4.50
Columbia, MS	—	12.20
Brunswick, GA	5.99	8.75

Tables of maximum winds observed at oil rigs (left) and heaviest 24-hour and storm total rainfalls (right) associated with the unnamed tropical storm.

TROPICAL STORMS and HURRICANES ---- continued



Tropical Storm ARLENE, just prior to achieving hurricane status, is seen in the central North Atlantic at 1501UTC on August 21st in this GOES 6 satellite, visible image. The storm system traversed the entire ocean from the U.S. East Coast to central Spain during its 20-day life.

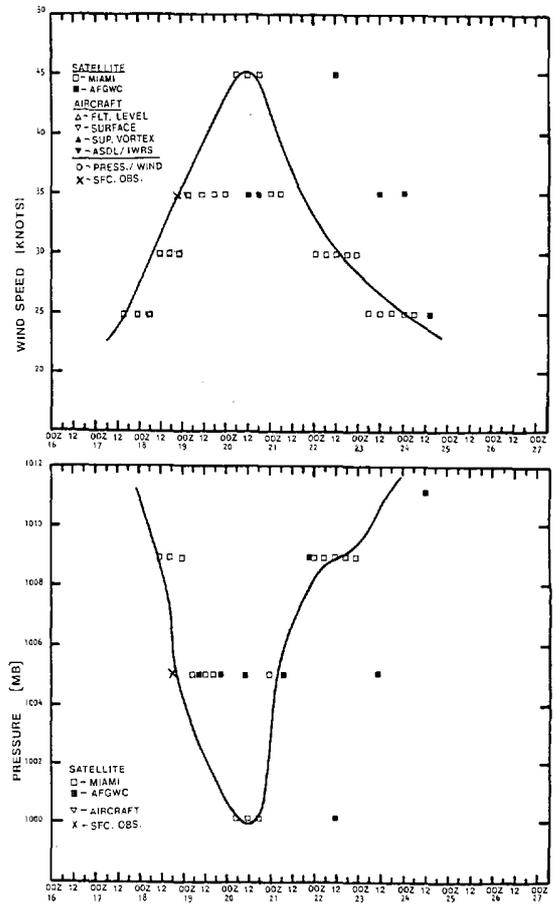
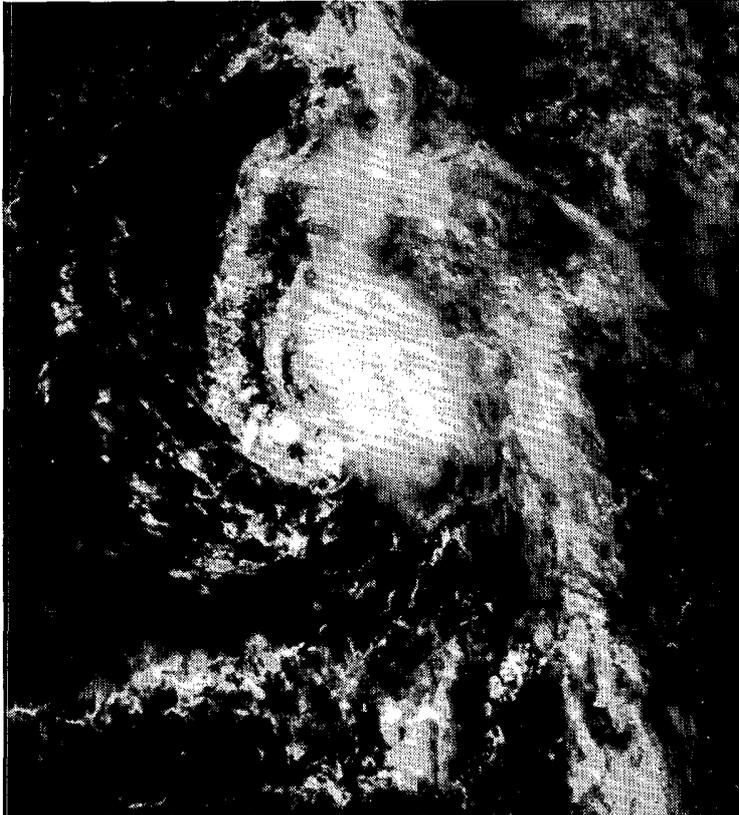


Plots of estimated maximum wind speed and minimum surface pressure versus time for Hurricane ARLENE.

TROPICAL STORMS and HURRICANES ---- continued

VESSEL CALL SIGN	DATE		TIME (UTC)	SHIP POSITION		WIND		PRESSURE (mb)
	MONTH	DAY		LAT(N)	LOX(W)	DIR	SPEED(kt)	
UUXO	08	12	12	30.6	71.5	260	35	1007.9
VJNW	08	13	18	33.6	64.5	040	65	1001.9
VJNW	08	14	00	34.2	64.2	060	45	1007.2
XX94	08	14	00	34.0	61.3	100	35	1010.4
VJNW	08	14	12	35.2	63.4	060	40	1014.2
ULQX	08	14	12	33.4	59.2	230	40	1017.5
VJNW	08	15	00	35.8	61.9	070	40	1016.7
UIZE	08	15	00	35.0	58.0	120	35	1024.5(?)
TCEY	08	16	06	27.5	56.0	240	35	MSG
ZDAZ	08	16	12	27.6	57.1	260	35	1011.5
SHIP	08	16	18	31.5	60.7	030	40	1013.0
ZDAZ	08	17	00	27.2	59.5	280	35	1012.0
7JQQ	08	22	12	38.5	42.8	100	35	1002.9
FNPO	08	23	12	44.8	36.9	200	50	1010.5
GBSA	08	25	06	45.6	19.7	340	45	1012.2

Chronological list of wind and pressure reports received from ships that encountered at least tropical storm force winds (35 knots or more) that were associated with ARLENE.

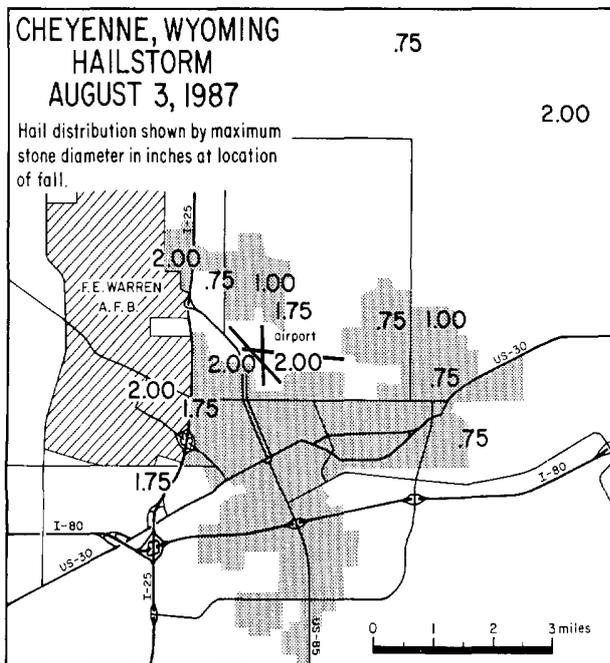


LEFT: Tropical Storm BRET is seen during its peak intensity (45 knot maximum winds, 1000 mb minimum pressure) at 1631UTC on August 20th in a GOES 6 satellite, visible image. BRET formed from an organized disturbance that originated in the Sahara and moved westward off the African coast. RIGHT: Plots of estimated maximum wind speed and minimum surface pressure versus time for Tropical Storm BRET.

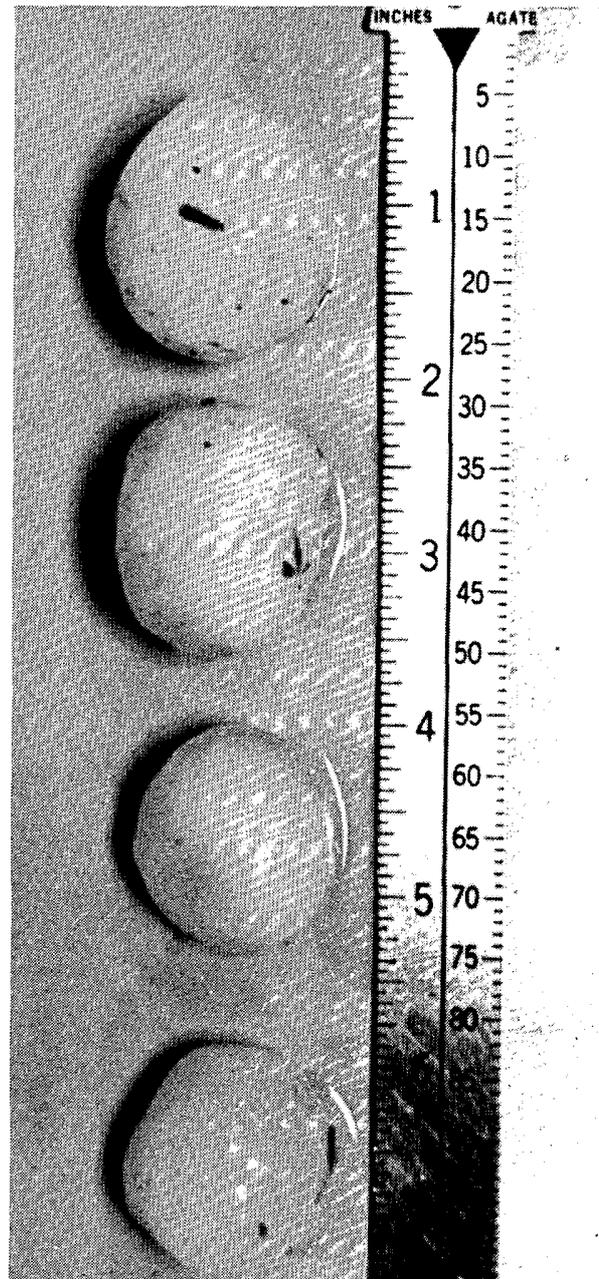
---All photos, figures, and tables on pages 7 through 9 are from the National Hurricane Center, and provided by the Atlantic Oceanographic and Meteorological Laboratory / Hurricane Research Division, both of Miami, Florida.

1. HAIL at CHEYENNE, WYOMING on August 3, 1987

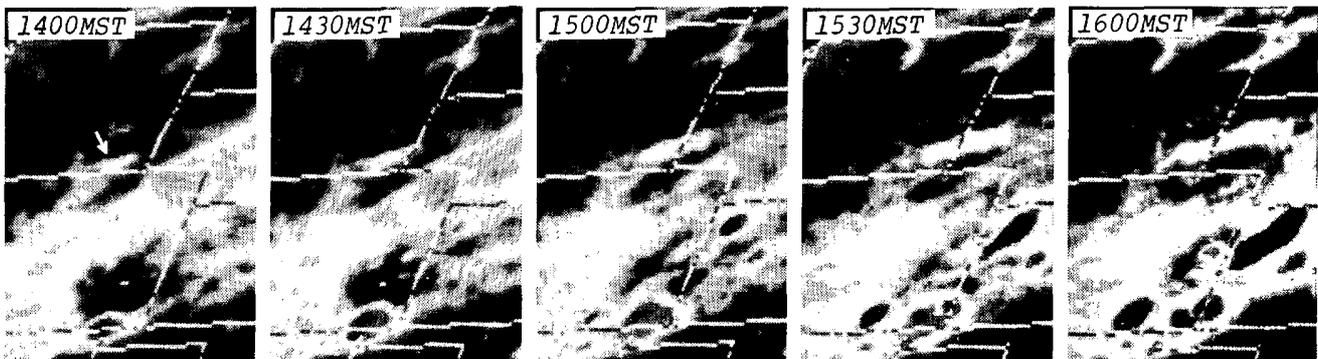
During the early afternoon of August 3rd, a severe thunderstorm moved northeast across the southeastern corner of Wyoming, including Cheyenne, intermittently dumping hail of up to 2 inches in diameter along a path that extended at least 30 miles. In Cheyenne, the hail heavily damaged cars by cracking or breaking windshields and denting the car bodies. The hail also stripped trees of leaves and small branches, and destroyed gardens across the area. Also hard hit was the F.E. Warren Air Force Base on the west edge of the city. Damage from the storm was expected to exceed 37 million dollars in value.



Distribution of hail fall over Cheyenne, Wyoming on the afternoon of August 3rd. ---Map from the NWSFO at Cheyenne, WY.



Hailstones that fell at the Tribune-Eagle building on the west side of Cheyenne during the August 3rd storm. ---Photo by Betty Sue Allen, The Tribune Eagle, Cheyenne, Wyoming.



A sequence of GOES 6 satellite, infrared images showing the hail-producing storm (arrow in first photo) as it trekked through the Cheyenne area on August 3rd. ---Photos from NESDIS.

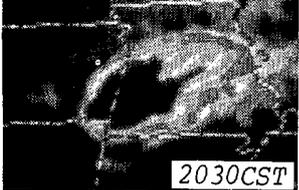
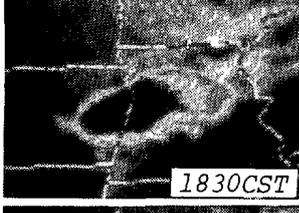
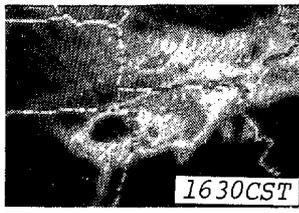
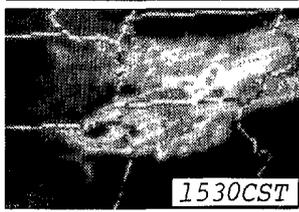
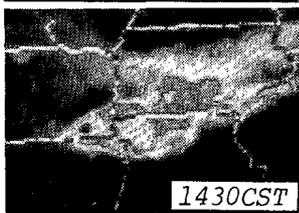
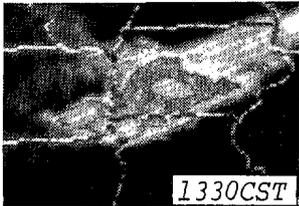
HAIL at CHEYENNE, WYOMING ---- continued



Views from a window of the Tribune-Eagle building show the accumulation of hail in a parking area (top), and vehicle damage that was typical of that sustained throughout the Cheyenne area. ---Both photos by Betty Sue Allen, The Tribune-Eagle, Cheyenne, WY. Map and all Tribune-Eagle photos supplied by Hugh McRandal, NWSFO at Cheyenne, Wyoming.

2. HAIL and WIND STORM in EASTERN KANSAS on August 19, 1987

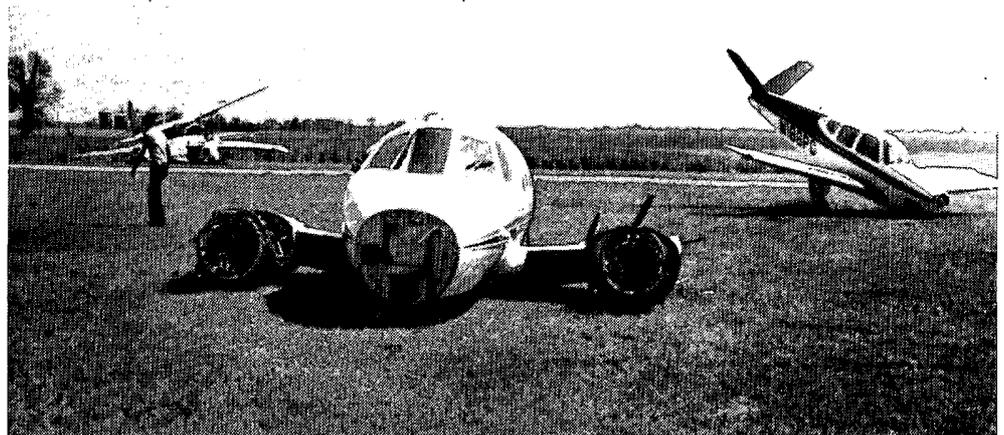
During the afternoon and early evening of August 19th, a cluster of severe thunderstorms with strong winds recorded at up to 69 knots and large hail of up to baseball size, marched south-southeastward through northeast and east-central Kansas. Extensive damage was done along a north-south line through Topeka, Ottawa, Garnett and Ft. Scott, the worst of which was concentrated in the Ottawa-Princeton-Richmond area. An Ottawa school was unroofed, and a dozen planes were damaged or destroyed at the city's airport. All ten injuries associated with the storm occurred at Princeton.

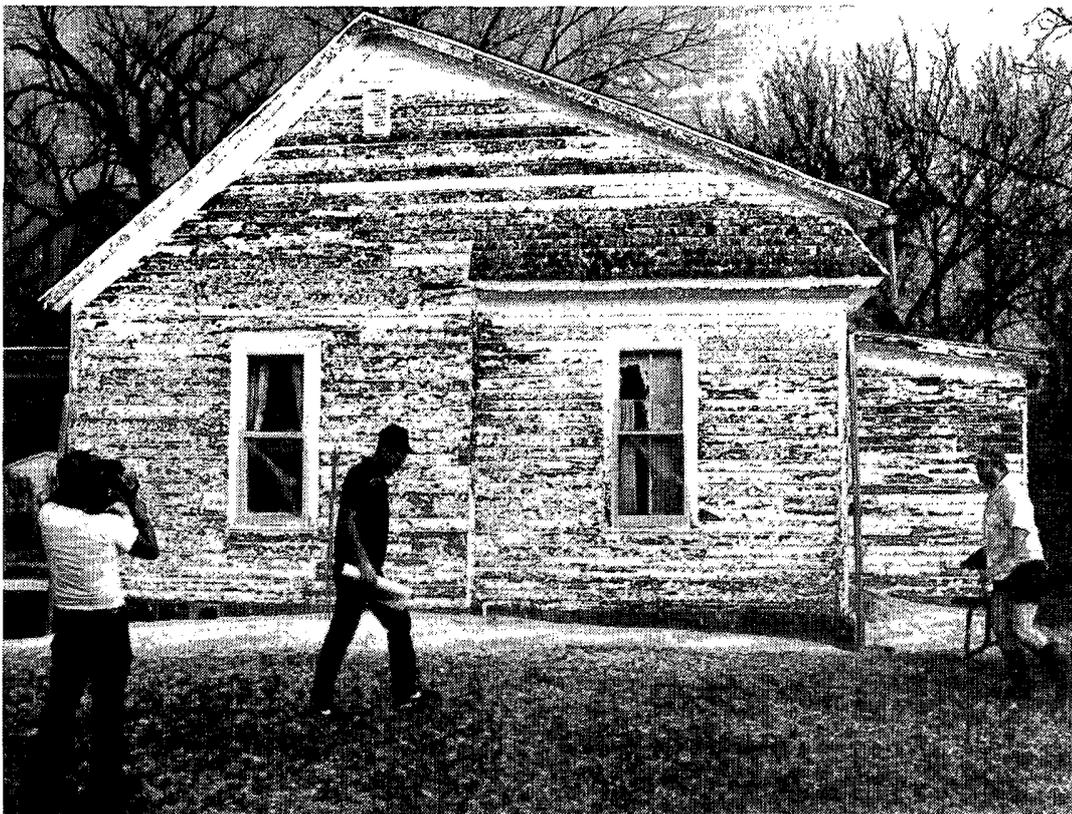


LEFT and DOWN: The expanding, cold cloud top of the August 19th storm cluster, depicted in a sequence of GOES 6 satellite, infra-red images, attests to the storm's severity as it made its way through eastern Kansas. ---Photos from NESDIS.



ABOVE: A mobile home in Princeton, Kansas, around which the frame of another totally destroyed mobile home was wrapped by the storm's winds. BELOW: A few of the wrecked planes that were part of the one million dollars in damage at the Dodson Aviation Airfield in Ottawa. ---Both photos from the Ottawa Times.





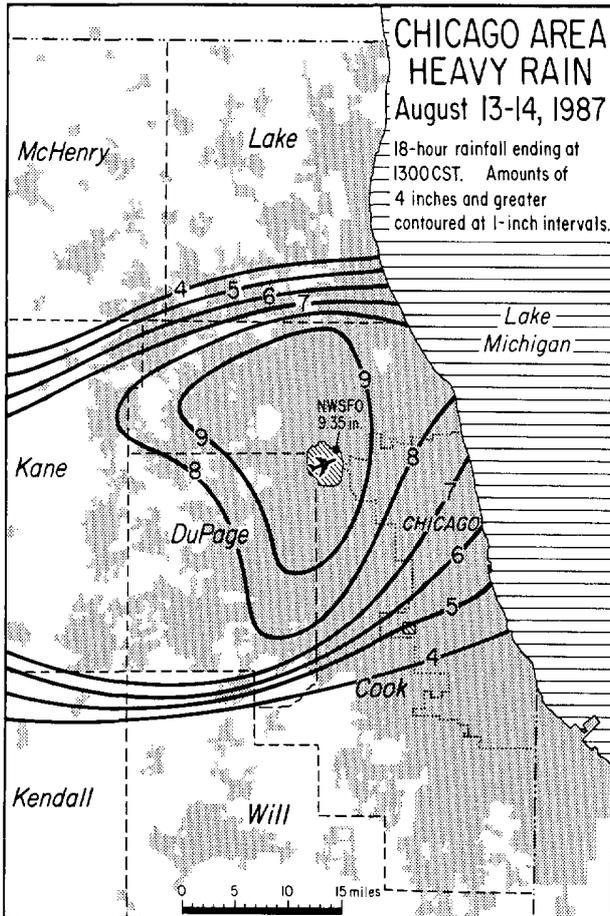
A home in Princeton, Kansas that had paint stripped and windows broken by one-half inch diameter, windblown hail that accompanied the storm.



Also in Princeton, a tree uprooted by the storm's winds lies amid an eerie fog caused by the cold air that was produced by the accumulated hail. The large balls on the ground are hedge apples, not hailstones. ---Both above photos by Steve Zuk, The Ottawa Herald. All damage photos on pages 12 and 13 supplied by William Barlow, NWSFO at Topeka, Kansas.

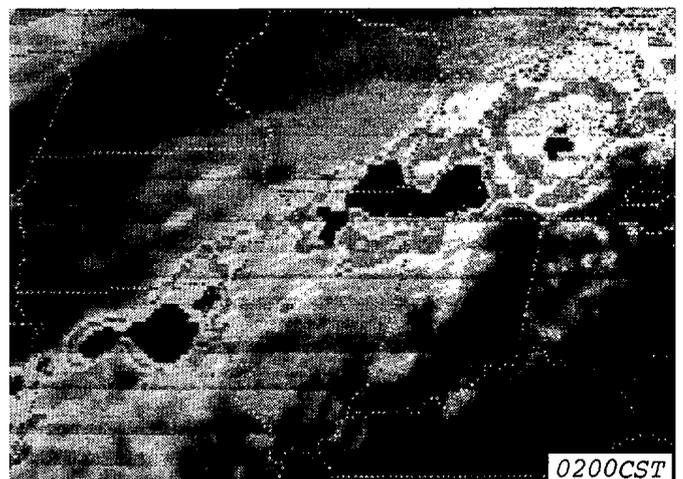
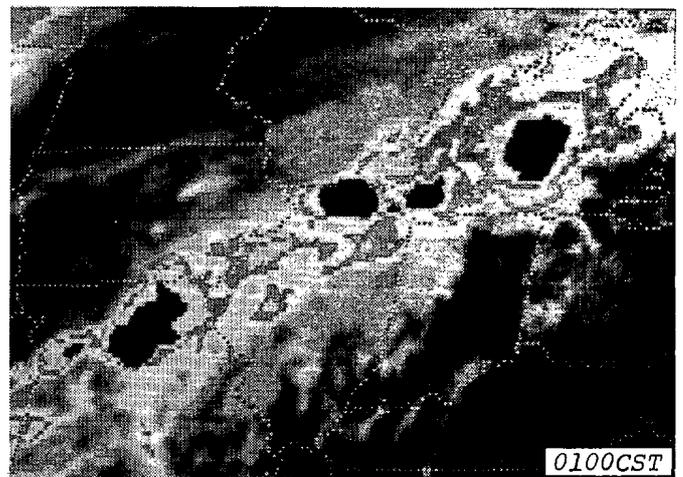
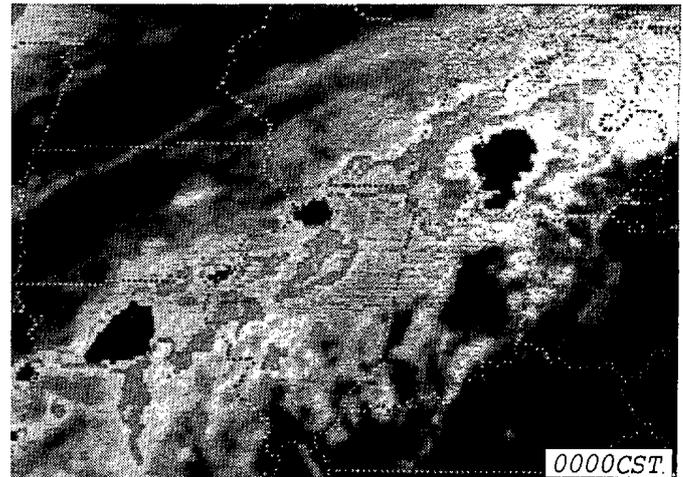
3. FLASH FLOODING in the CHICAGO, ILLINOIS AREA on August 14, 1987

A succession of thunderstorms produced rainfall unprecedented in 116 years of precipitation records at Chicago, Illinois during an 18-hour period from the evening of August 13th to the early afternoon of the 14th. The resulting flash flood was the worst to ever strike the Chicago metropolitan area, causing 3 deaths on the 14th and water damage over a 5-day period that amounted to 221 million dollars. It was mainly the northern and western portions of the metro area that bore the brunt of the heavy rains and flooding (see map below), while the southern portion received only 1 to 3 inches of rain. O'Hare International Airport, site of the official weather observing station, received an event total of 9.35 inches of rain in 18 hours which blew away the previous 24-hour record of 6.24 inches. For a period of about 24 hours, the airport was only accessible from the air as all surface approaches were blocked by high water, including the Kennedy Expressway which became a footpath for thousands of air travelers who could only leave the airport by walking out.



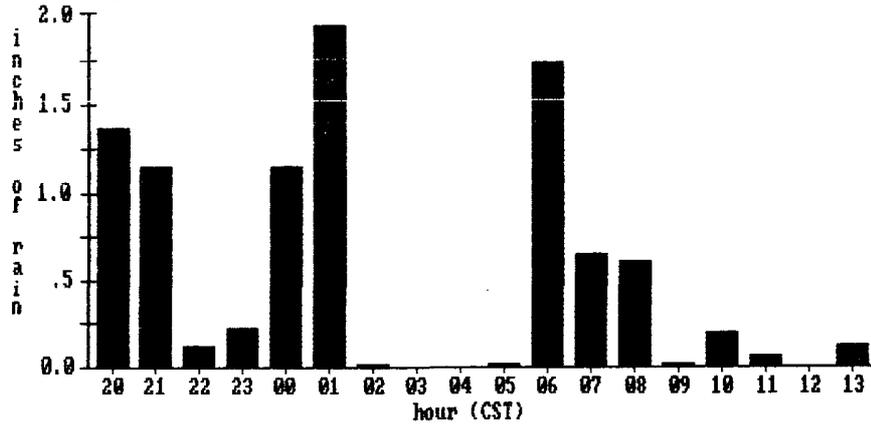
Distribution of the heaviest rainfall (4 inches or more) in the Chicago metropolitan area of northeast Illinois on August 13-14, 1987. ---Map from the NWSFO at Chicago, Illinois.

RIGHT: Three GOES 6 satellite, infrared images taken early on August 14th show the explosive development of a thunderstorm directly over the Chicago area, just as O'Hare Airport was receiving some of its heaviest rainfall of the entire episode (see hourly rainfall distribution on next page). The storm in Michigan had passed over Chicago earlier. ---Photos from NESDIS.



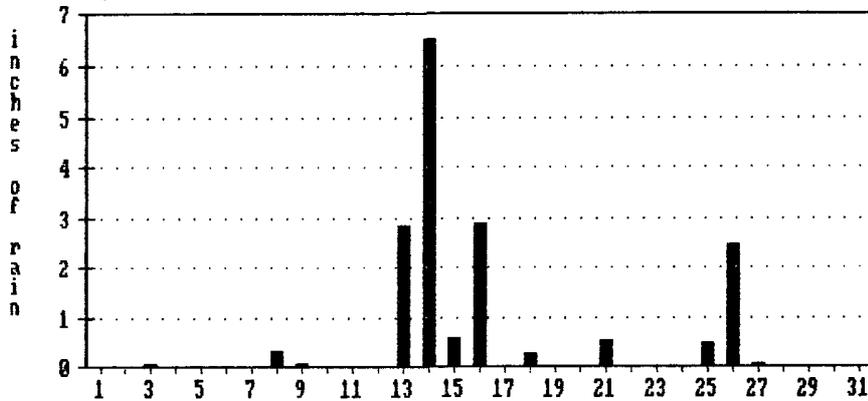
FLASH FLOOD in the CHICAGO, ILLINOIS AREA ---- continued

The hourly distribution of Chicago's record rainfall: 9.35 inches in 18 hours.



9.35 inches of rain in an 18-hour period from 2000CST of Aug. 13 through 1300CST of the 14th established an all-time record for Chicago.

The daily distribution of rain in Chicago's wettest month ever: 17.10 inches.



This graph depicts daily rainfall at Chicago's O'Hare International Airport for August, 1987. Precipitation for the month totaled 17.10 inches, the greatest monthly amount in 117 years of precipitation records at Chicago.

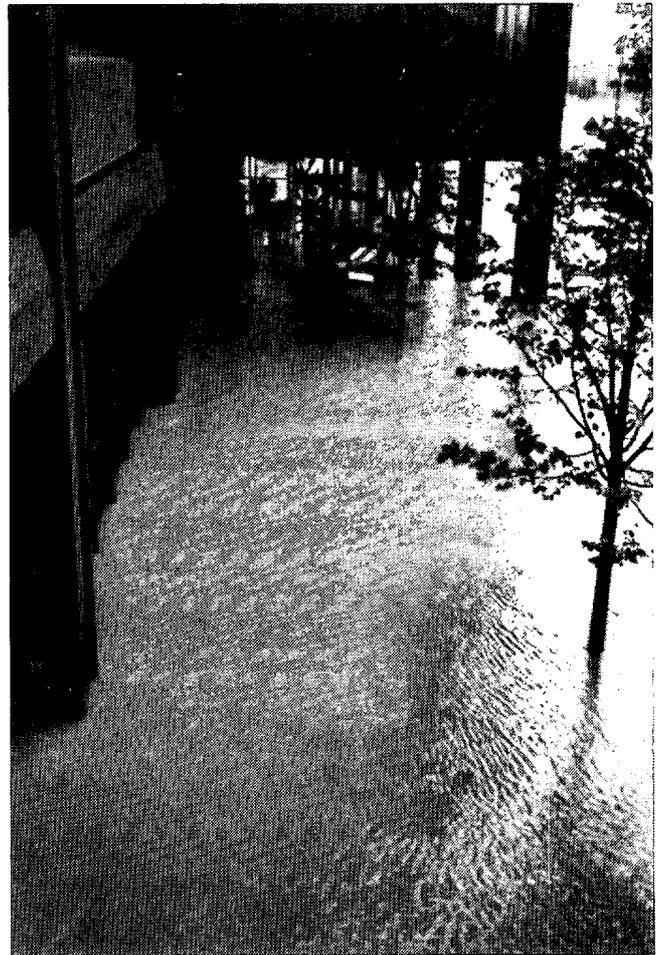
---Graphs provided by the NWSFO at Chicago, Illinois.



Late in the morning of the 14th, water swirls around the base of the building that houses Chicago's National Weather Service Forecast Office, located in Rosemont at the northeast edge of O'Hare Airport. Cars parked on the ground level parking lot to the right were flooded to a depth of 4 feet.

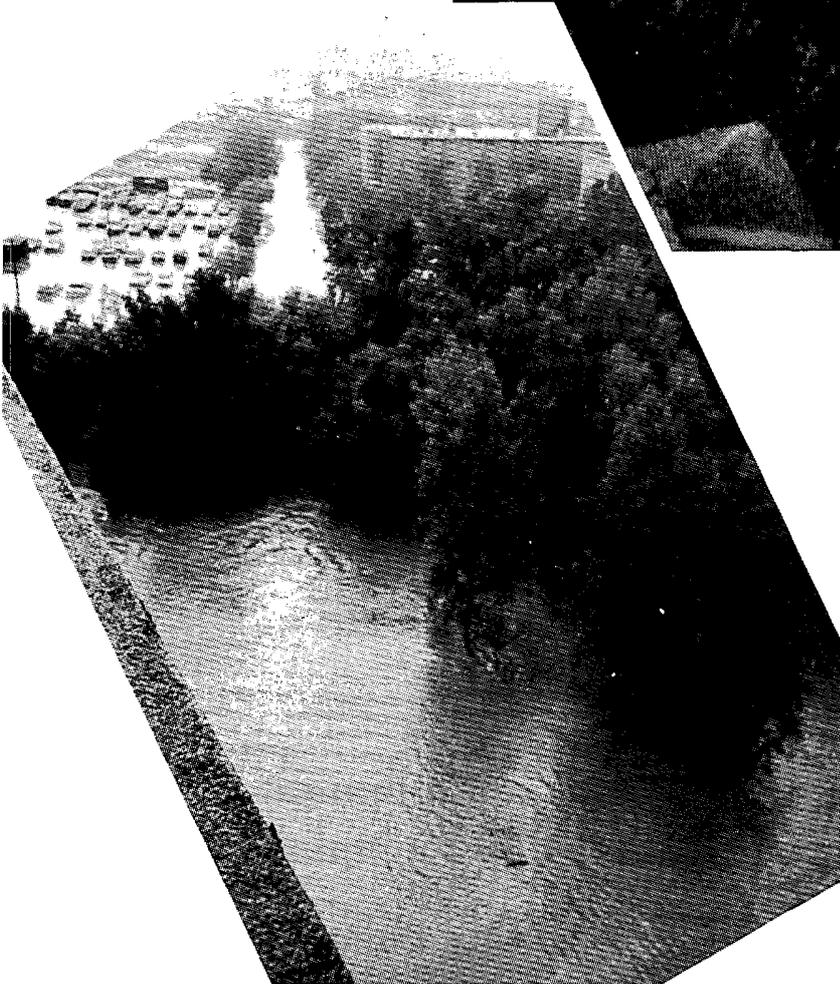
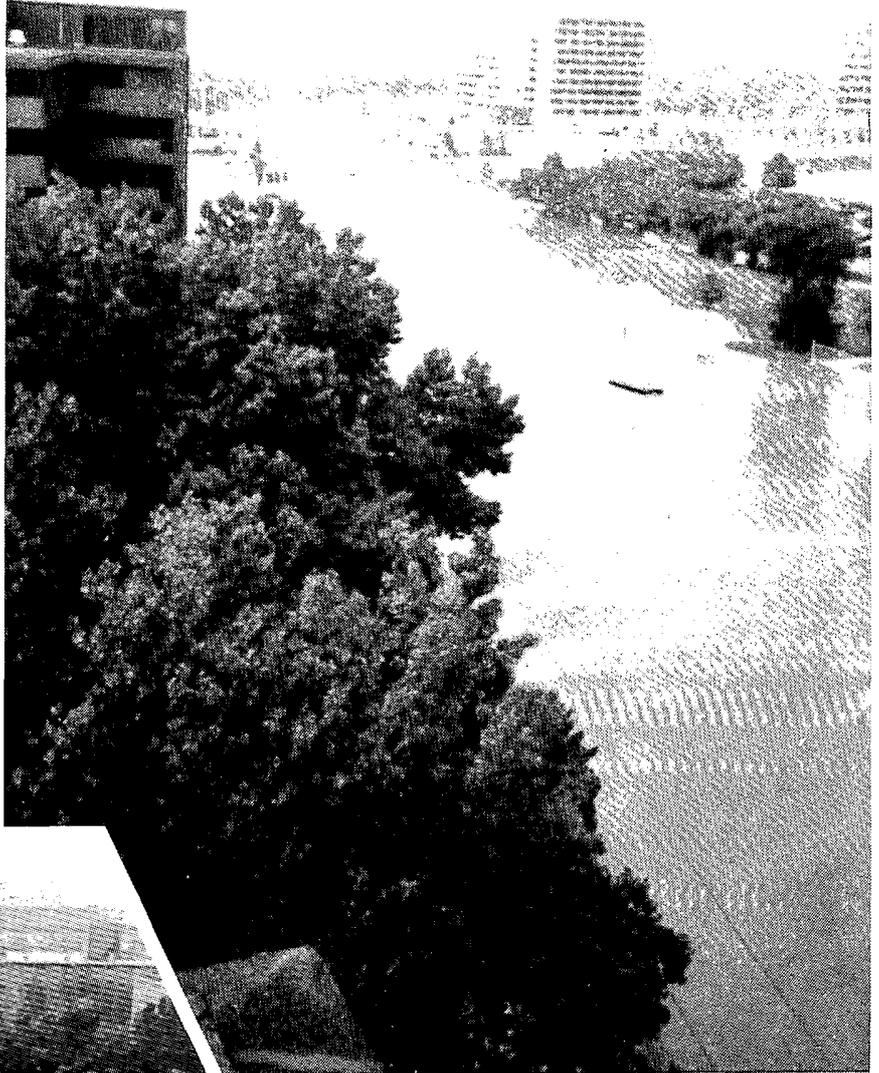


From the upper level of the parking facility at the O'Hare office building at 10600 West Higgins Road, the flooding that occurred during the late morning of the 14th is seen in southeast, east and south views, counterclockwise from left. The building houses Chicago's NWSFO on its 6th floor. At the height of the flooding, water reached a one foot depth on the ground floor. The NWSFO lost all power and communication.



FLASH FLOOD in the CHICAGO, ILLINOIS AREA ---- continued

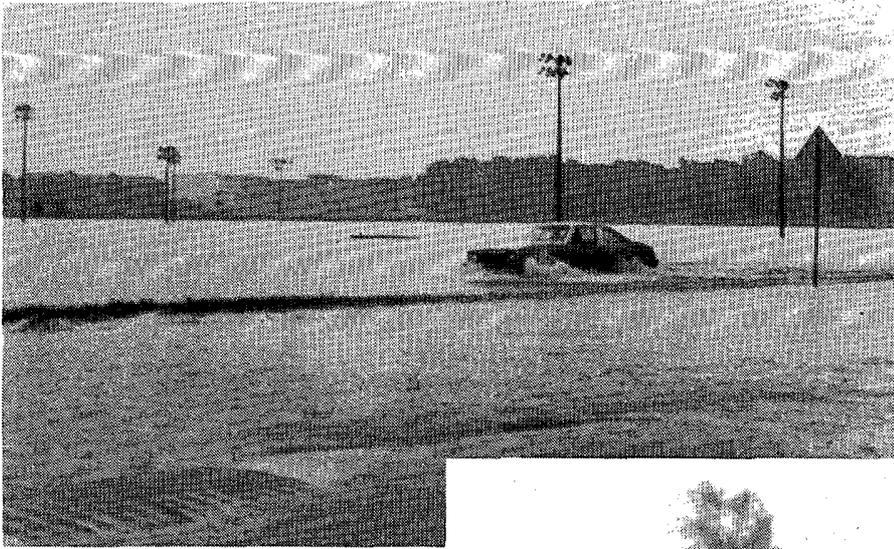
Viewed toward the east from the 7th floor roof of the NWSFO building, Higgins Road and much of the area around it is submerged under floodwater to at least as far as the Des Plaines River, about one mile away to the east. Most of the buildings in this area were flooded. O'Hare Airport lies to the right, across Higgins Road from the NWSFO.



Another view from the 7th floor roof shows a flooded picnic area adjacent to the NWSFO building. Note the tops of two picnic tables barely poking above the water. The water rose so suddenly that workers in area buildings were unaware that a flash flood was submerging their autos parked in the lot at upper left.

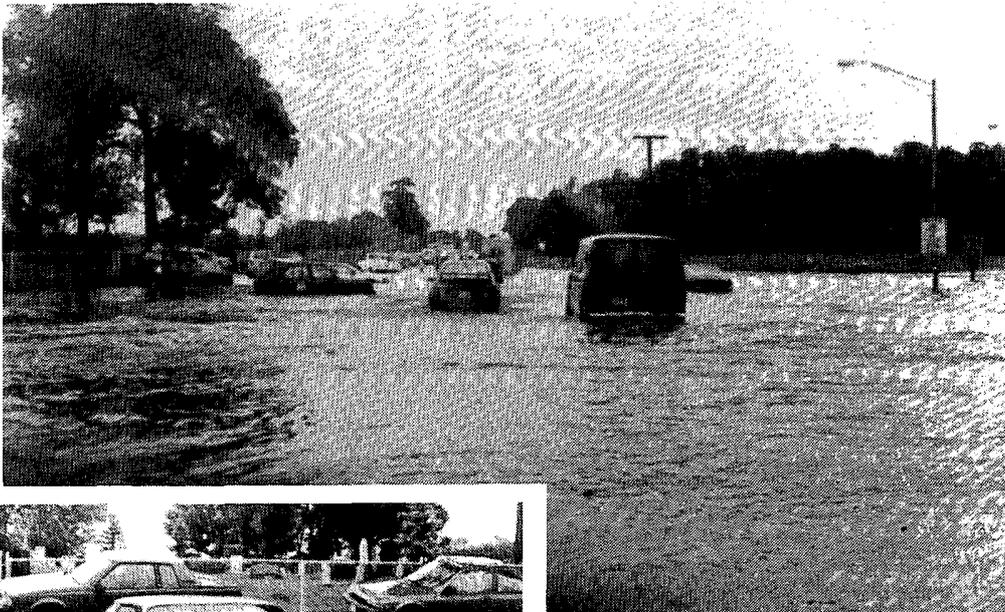
---All photos on pages 15 through 17 by Allan Bergh.

FLASH FLOOD in the CHICAGO, ILLINOIS AREA ---- continued



With water making the road itself impassable, a motorist plows along an elevated shoulder of Kirchoff Road in northwest suburban Arlington Heights, an especially dangerous maneuver since a drainage ditch 6 to 12 feet deep and completely covered with water lies just beyond the shoulder.

Also along Kirchoff Road in Arlington Heights, drivers plow through floodwaters that are just beginning to rise as the heavy rain continues to fall during the Friday morning rush hour.



Drivers wend their way around stalled vehicles on flooded Arlington Heights Road in Arlington Heights (above), in some cases using the parkway well away from the road to get past the deep areas (left).

FLASH FLOOD in the CHICAGO, ILLINOIS AREA ---- continued

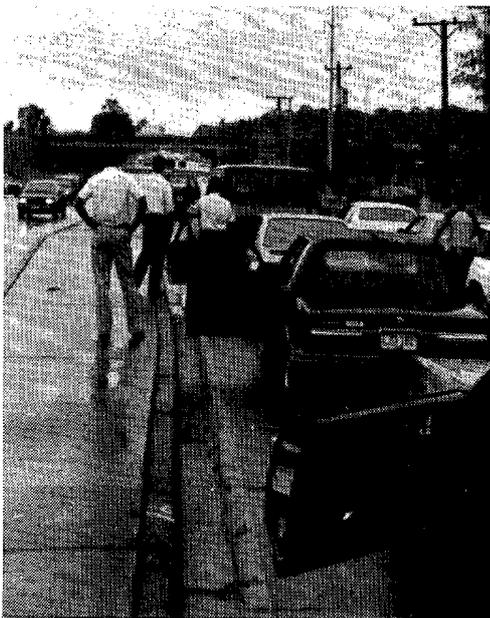


A street in northwest suburban Elk Grove resembles a river as waves were generated by the strong current of the floodwater.



. Additional views of the flooding in Elk Grove, while the rain was still in progress.

Flooding at the Elk Grove Township municipal building.



LEFT: Trapped rush-hour motorists stand outside their vehicles in frustration on Arlington Heights Road in Arlington Heights, knowing that the road behind them has become impassably flooded as most probably has the road ahead. RIGHT: Interstate 290 in western suburb Elmhurst is half empty and half hopelessly jammed at St. Charles Road due to high water blockages.

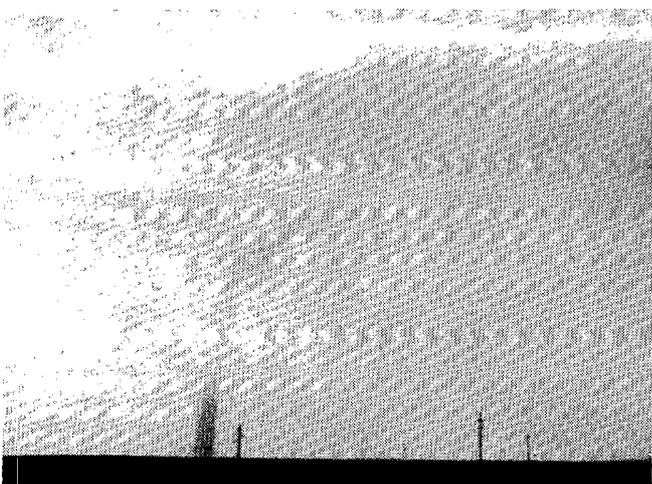
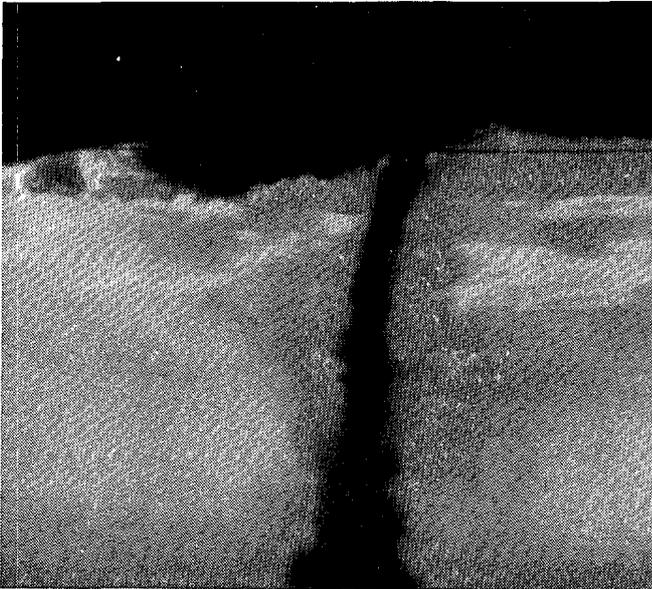
One of the flooded residential streets in Arlington Heights. NWS meteorologist Steve Kahn, a resident of the community, recorded 9.52 inches of rain at his home.



---All photos on pages 18 through 21 by Michael Larson, and all materials on pages 14 through 20, except for satellite imagery, provided by Richard Koeneman, NWSFO at Chicago, Illinois.

4. TORNADOES in LYMAN COUNTY, SOUTH DAKOTA on August 5, 1987

Six tornadoes touched down in central South Dakota during the late afternoon and early evening of August 5th; one, an F0 occurring in Hughes County, and five, an F2, an F1 and 3 F0's occurring in Lyman County. Three of the Lyman County tornadoes occurred in the vicinity of Kennebec within a 25 minute period. The strongest, the F2, struck three farms, destroying granaries and outbuildings, smashing car windows, downing power lines, and killing small animals. Lyman County was also visited by nine tornadoes on July 6, 1987, neighboring Buffalo County had five. With one additional tornado on July 9th, Lyman County had 15 tornadoes in a one-month period.



Photos of the F2 tornado of August 5th, one of the three tornadoes that struck near Kennebec. It touched down about 7 miles north of Kennebec and traveled 1.2 miles. ---Photos by Dooley Shroyer of Reliance, South Dakota; supplied by Lee C. Anderson, NWSFO at Sioux Falls, SD.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1987

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

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

EDITOR'S NOTE:

BEGINNING WITH THIS ISSUE, THE UNIVERSITY OF CHICAGO WILL NO LONGER PROOFREAD AND CORRECT REPORTS IN THIS SECTION DUE TO FUNDING CONSTRAINTS. THE REPORTS WILL BE PRESENTED AS RECEIVED, AND MAY BE IN A LESS THAN PUBLISHABLE FORM. INQUIRIES CONCERNING THESE REPORTS SHOULD BE DIRECTED TO LOCAL NATIONAL WEATHER SERVICE FORECAST OFFICES OR NATIONAL WEATHER SERVICE HEADQUARTERS.

1 ALABAMA

Lauderdale County	01 1630CST	0 0 ? ?	TSTM Wind	Thunderstorm winds downed numerous trees and snapped power lines in Waterloo. Several small outbuildings were destroyed.
Covington County	01 2040CST	0 0 ? ?	HAIL (0.75)	Dime size hail fell at Opp.
Colbert County	02 1656CST	0 0 ? ?	TSTM Wind	The roof was blown off the library in Cherokee. Also some power lines were knocked down.
Walker County	02 1645CST	0 0 ? ?	TSTM Wind	A few trees were uprooted in Dora about 25 miles northwest of Birmingham.
Clay County	02 1700CST	0 0 3 ?	TSTM Wind	A farm building was unroofed and some trees were uprooted at Barfield.
Jefferson County	02 1725CST	0 0 ? ?	Hail (1.75)	Golf ball size hail stripped the leaves from trees in the Adger Community about 10 miles west of Bessemer.
Calhoun County	04 1800CST	0 6 ? ?	Lightning	Lightning stunned 16 guardsmen on a routine night exercise for the National Guard at Fort McClellan. Two bolts struck the ground near the men and made contact with the men through wet ground. Six of the men were slightly injured and there were no deaths or serious injuries.
Jefferson County	06 1945-1200CST	0 0 ? ?	Flash Flooding	An intense mid-day thunderstorm developed over the northeast part of Birmingham and rained itself out over the same general area. Between two and four inches of rain fell in less than one hour. Water rose to the windshield level on some automobiles.
Montgomery County	11 1730CST	1 0 ? ?	Lightning	A 35 year old man was killed by lightning in eastern Montgomery. He was outside working on a privacy fence at the time. M350.
Mobile County	12 0610CST	1.5 30 0 0 ? ?	Waterspout-Tornado (FO)	A small tornado that began as a waterspout moved from the Gulf of Mexico and dipped down two miles east of Fort Morgan. The tornado did considerable damage at a marina before it lifted then went a mile east over the Bon Secour Bay and dissipated.
Baldwin and Mobile Counties	13 0200-14 1100CST	0 0 5 ?	Flooding	The remnants of a tropical depression moving inland from the Gulf of Mexico produced widespread flooding in Southern Mobile and Baldwin Counties. Total rainfall amounts during the period commonly ranged between four and ten inches. At Dauphin Island over 14 inches of rain fell during the 48 hour period ending at 14 0800CST. Over a foot of water rose over roads leading to the west end of Dauphin Island. Damage was mostly to roads and bridges. In Baldwin County alone, structural damage was estimated to be around 200 thousand dollars with at least five roads partially washed out. There were only a few instances where water was reported to have risen into homes.
Baldwin County	17 1300CST	1 0 ? ?	Lightning	Lightning killed a 39 year old man as he was cutting grass at a water theme park about 9 miles east of Loxley. M390.
Fayette, Lamar and Marion Counties	18 1500CST	0 0 ? ?	TSTM Wind (60)	Scattered wind damage occurred across three counties downing some trees and snapping power lines. Wind gusts of 50 to 60 mph were reported as the gust front moved through the area. The roof of a store in the City of Vernon in Lamar County collapsed due to the weight of water that collected during the thunderstorm.

ALABAMA

Greene County	20 1500CST	0 0 4 ?	TSTM Wind	In Opelika, scattered trees were downed while one tree fell on a car. The winds which gusted to 57 mph also blew several permanent signs down.
Lee County	25 1527CST	0 0 ? ?	TSTM Wind	In Opelika, scattered trees were downed while one tree fell on a car. The winds which gusted to 57 mph also blew several permanent signs down.

2 ARIZONA

Pima County Tucson	02 1700MST	0 0 5 ?	Thunderstorm Wind	A severe thunderstorm struck the southwest portion of the city and caused power outages, as at least a dozen power poles were downed along E. Drexel Rd. Considerable damage to 4 airplanes at the airport as a result of a 54 mph gust. Total damage to aircraft was estimated at \$133,000.
Mohave County Lake Havasu City	03 1845MST	0 0 3 0	Thunderstorm Wind	Very heavy thunderstorms formed north of town and moved south along the Colorado River. Crystal Beach, about 7 miles north, had peak gusts of 63 mph. There were many power outages. Thunderstorms weakened rapidly after 1900MST.
Pinal County Arizona City Picacho	04 2002MST	0 0 3 0	Thunderstorm Wind	Patio covers and roofs damaged.
Cochise County Sierra Vista	07 1030MST	0 0 3 0	Hail (0.75)	Thunderstorms caused 50 mph winds, 2 inch rainfall, and hail estimated to be 3/4 inch diameter.
Apache County 20SW Springerville	07 1405MST	1 0 0 0	Lightning	While fishing on the banks of Big Lake, lightning struck a Tucson woman, apparently behind her left ear. Her husband and son, who were nearby, were unhurt. F240
Cochise County Sierra Vista	08 1835MST	0 0 ? ?	Flash Flooding	Intense downpours of 2-3 inches per hour resulted in flooded roads and power outages.
Gila County Globe	10 1830MST	0 0 2 0	Flash Flooding	Considerable mud, water and debris was reported rushing through small canyons onto side roads. The heavy rains which lasted about 45 minutes, brought traffic to a standstill in Claypool.
Yavapai County 26NW Prescott	12 1105MST	0 0 0 0	Funnel Cloud	Pilot reported a funnel cloud extending about 800 feet below the cloud base.
Cocconino County 10W Flagstaff	12 1455MST	0 0 0 0	Hail (0.75)	
Pima County Tucson	23 1900MST	0 0 5 0	Thunderstorm Wind	About \$50,000 damage occurred to mobile homes in the Plaza del Sol Mobile Home Resort. A fast-moving thunderstorm moved through the central and western portions of Tucson. Isolated power outages were also reported.
Maricopa County 5S Chandler	24 1530MST	0 0 4 0	Thunderstorm Wind	A mobile home rolled about 30 ft. off its foundation and crushed a late-model car. Damage to the 10-year old trailer was estimated at about \$7,500.
Pinal County Red Rock	24 1545MST	0 0 0 0	Funnel Cloud	
Cochise County Sierra Vista	25 1400MST	0 0 3 ?	Hail (1.50)	Minor damage to street and roadways was reported in Sierra Vista as a result of heavy thunderstorms. Hail up to 1 1/4 inch diameter covered the ground on the west side. About 1.40 inches of rain fell in just 1/2 hour.
Maricopa County Aguila	25 1800MST	0 0 0 ?	Hail	
				Strong thunderstorms damaged some crops.
Maricopa County 14N Phoenix	29 1435MST	0.1 10 0 0 2 0	Tornado (FO)	Two sheds were destroyed by a short-lived tornado near the Deer Valley Airport. Tower controllers at the airport first reported the tornado to the northwest, moving southward. A NWS observer sighted the tornado to the north of Sky Harbor Airport.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 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	
3 ARKANSAS									
Independence County	01	1600CST			0	0	4	-	Thunderstorm Wind
	Straight-line winds uncovered the pumps at a gasoline station and smashed the debris against a home and a business. Several trees were also knocked down. Damages occurred at Evening Shade.								
Pulaski County	01	1700CST			0	0	4	-	Thunderstorm Wind
	01	1700CST			0	0	-	3	Lightning
	Numerous trees were blown down in the Mabelvale area of Little Rock. Power lines were snapped and power outages lasted about 1-1/2 hours. One of the trees crashed through the roof of a residence, causing about \$10,000 in damages. Also, two horses were killed by a lightning strike.								
Pulaski County	01	1720CST			0	0	4	-	Thunderstorm Wind
	A two-story apartment complex in Little Rock was unroofed, displacing 11 persons.								
Crawford County	03	Morning			1	0	-	-	High Heat
	A Van Buren man collapsed while working outdoors because of the excessive heat. M690								
Sebastian County	03	2000CST			0	1	-	-	High Heat
	A Fort Smith patrolman suffered a heat stroke which was precipitated by a foot chase during an excessive heat episode. He required medical treatment, but he was not admitted to the hospital.								
Sebastian County	04	Unk			1	0	-	-	High Heat
	A 65-year-old woman was found dead in her home at Fort Smith. Her death was attributed to heat exhaustion. F65H								
Van Buren County	04	Afternoon			1	0	-	-	High Heat
	Excessive heat killed a 33-year-old man from Clinton. M330								
Boone County	04	1330CST			0	0	3	-	Thunderstorm Wind
	A large, concrete block wall and a roof were blown down by thunderstorm gusts. The structure was located one mile south of Valley Springs.								
Izard County	04	1530CST			0	0	?	-	Thunderstorm Wind
	The Sheriff's Office reported several trees blown down across Highway 9 in Melbourne. Downed tree limbs also caused power outages in Calico Rock and Mount Pleasant.								
Independence County	04	1700CST			0	0	3	-	Thunderstorm Wind
	A motorist had a tree blown down across his vehicle while driving on Highway 14, about a mile east of Oil Trough.								
Sharp County	04	1700CST			0	0	?	-	Thunderstorm Wind
	The County Judge reported three trees blown down across the road between Poughkeepsie and Nelsonville.								
Ashley County	04	1715CST			0	0	4	-	Thunderstorm Wind
	A large section of the roof was blown off a church at Berea.								
Drew County	04	1725CST			0	0	4	-	Thunderstorm Wind
	Two trees were blown down at a home in New Hope. One tree fell on a mobile home, causing extensive damage.								
White County	04	1730CST			0	0	4	-	Thunderstorm Wind
	The Bald Knob airport received the bulk of the damage from thunderstorm gusts. Three hangars were heavily damaged, as well as one airplane housed in one of them. Scattered tree and sign damage was reported by the police in downtown Bald Knob.								
Craighead County	04	1800CST			0	0	3	-	Thunderstorm Wind
	Power outages were common in Jonesboro, due to knocked down limbs and trees throughout the city.								
Craighead County	04	1930CST			0	0	-	-	Funnel Cloud
	A funnel cloud was spotted at Lake City.								
— ARKANSAS									
Cleveland County	04	2030CST			0	0	4	-	Lightning
	Lightning started an electrical system fire at the Rison High School. Damage to the walls and the electrical system was estimated at about \$24,000.00.								
Sebastian County	05	Unk			1	0	-	-	High Heat
	A woman was discovered dead, by relatives and neighbors, at her mobile home, 4 miles east of Lavaca. The coroner estimated she had been dead two or three days. He attributed her death to excessive heat. F53H								
Sharp County	05	Unk			0	0	4	-	Lightning
	Twelve cows and three calves were killed by a lightning bolt that struck the tree where they sought shelter. Lightning also burnt out a well pump. The cost of the cows was estimated at around \$9,000.00.								
Union County	05	1730CST			0	0	3	-	Thunderstorm Wind
	Large trees were blown down in Junction City. Fortunately, no injuries or property damage resulted, except for the trees themselves and their removal costs.								
Jefferson County	06	Unk			1	0	-	-	High Heat
	A 79-year-old woman died in Pine Bluff from excessive heat. She was discovered by a relative checking in on her. F79H								
Jackson County	08	1300CST			0	0	4	-	Lightning
	The typesetting computer at a Newport newspaper was damaged when lightning struck a nearby transformer. The transformer had to be replaced. Damages at the newspaper alone ran up to \$18,000.00.								
Pulaski County	12	1330CST			0	0	3	-	Thunderstorm Wind
	Storm gusts tossed around a 9' x 10' storage building at a Little Rock subdivision.								
Little River County	12	1430CST			0	1	-	-	Lightning
					0	0	3	-	Thunderstorm Wind
	Thunderstorm gusts damaged the roofs on three poultry houses in Foreman. At about the same time, a woman was unable to talk, after being struck indirectly by lightning while talking on the telephone to report the wind damage to her insurance agent.								
Benton County	16	1930CST			0	0	5	-	Lightning
	Lightning started a fire at a home five miles north northwest of War Eagle. The 5,000 square-foot home was destroyed completely.								
Benton County	16	2030CST			0	0	4	-	Lightning
	Lightning started a fire at a Rogers residence, causing \$25,000 in damages.								
Benton County	16	2130CST			0	0	4	-	Thunderstorm Wind
	A multi-stall, boat dock was destroyed by thunderstorm winds on Beaver Lake next to Prairie Creek. One boat was sunk.								
Crawford County	17	0500CST			0	0	5	-	Lightning
	Lightning started a blaze that destroyed a home three miles north of Rudy. The home was valued at \$60,000.								
Saint Francis County	18	1025CST			0	0	3	-	Thunderstorm Wind
	A thunderstorm moved through Forrest City. At least one large tree was knocked down, damaging an adjacent home.								
Saint Francis County	18	1230CST			1	0	-	-	Lightning
	A man was working outdoors on a piece of heavy equipment when lightning struck near it. The man was pronounced dead from the resulting heart stoppage. The fatality occurred at a sawmill in Palestine. M330								

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1987

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					KILLED	INJURED	PROPERTY	CROPS	
— ARKANSAS									
Conway County	18	1310CST			0	0	5	-	Thunderstorm Wind
									Six rooms of a Morrilton hotel were unroofed by a strong gust front preceding a thunderstorm. Damage was estimated to be at least \$50,000.
Conway County	18	1330CST			0	0	-	-	Thunderstorm Wind
									Winds were estimated between 55 and 60 mph at a rest area, along Interstate 40, 1-1/2 miles east of Morrilton. An unspecified number of trees were blown down.
Faulkner County	18	1330CST			0	0	?	-	Thunderstorm Wind
									Several trees were knocked down in the vicinity of the University of Central Arkansas campus in Conway. Extensive power outages resulted.
Pulaski County	18	1355CST			0	0	-	-	Thunderstorm Wind
	18	1356CST			0	0	-	-	Thunderstorm Wind
									Tree limbs were blown down in the Levy section of North Little Rock. At the same time, the Little Rock Air Force Base reported wind gusts of 62 mph.
Benton County	19	0425CST			0	0	?	-	Thunderstorm Wind
	19	0432CST			0	0	3	-	Lightning
									A thunderstorm moved through the county knocking down some trees along Highway 59 between Decatur and Siloam Springs. Lightning caused a fire at a storage structure in Bella Vista.
Benton County	19	2100CST			0	0	4	-	Thunderstorm Wind
									A thunderstorm moved through Gravette, damaging a greenhouse, a fence, and knocking down a tree. About the same time, several trees were uprooted in Bentonville. One of the trees had a diameter of 4-1/2 feet. Some roofs and vehicles were damaged by the trees.
Washington County	19	2215CST			0	0	4	-	Thunderstorm Wind
									Roughly a 6,000-square foot area of roofing was damaged at Historic Old Main on the University of Arkansas campus in Fayetteville. Wind and water damage was estimated at \$15,000. Tree limbs, trees and power lines were knocked down elsewhere in Fayetteville.
Washington County	26	1615CST			0	0	5	-	Lightning
									About \$53,000 worth of damage resulted from a lightning strike at the County Courthouse in Fayetteville. The telephone system, the Sheriff's radio, and the office computers were disabled. The lights, office equipment and the elevator were also damaged.
Saint Francis County	27	1700CST			0	0	3	-	Thunderstorm Wind
									Tree limbs, power lines, and signs were blown down by strong winds from a thunderstorm in Forrest City. Two cars were damaged by falling signs.
4 CALIFORNIA, Northern									
Kern Co., Bakersfield and vicinity	31	1615PDT					5	-	Thunderstorm Wind
	31	1650PDT							Thunderstorm Wind
									Thunderstorms moved northward out of the Tehachapi Mountains and over the southern San Joaquin Valley. Downdrafts from the storms did widespread but minor straight line wind damage in and near Bakersfield. Most of the damage was confined to outbuildings in surrounding farms. Five dairy cows were killed and seven injured by flying debris.
4 CALIFORNIA, Southern									
CAZ-013 Nightingale	2	13551st			0	0	?	?	Thunderstorms
									Observer contacted at 255 pm PDT reported 1.50 inches of rain in 30 minutes, with 2.25 inches in the past 2 hours. Hail reports measured at 0.25 inch. No damage reported.
CAZ-013 Kelso, San Bernardino County	3	14451st			0	0	?	?	Thunderstorm
									California Highway Patrol reported minor road flooding near Kelso (Eastern San Bernardino County). Several roads were under 1 to 2 feet of water. Little damage reported.
CAZ-018 Lake Havasu	3	17451st			0	0	?	0	Thunderstorm Winds
									Reports of a thunderstorm on Lake Havasu with gusts to 70 miles an hour (63 knots). No damage reported.
5 COLORADO									
Pueblo County COZ 016	2	aftn.			0	0	4	0	Lightning
									Lightning hit a house south of Pueblo, starting a fire that caused \$20,000 damage.
Weld, Logan Cys. COZ 013	4	0430			0	0	4	5	Hail (1.75), Svr. tstms.
									Severe thunderstorms moved through extreme northeastern Colorado in the predawn hours, causing extensive property and crop damage. Beets and corn were hard hit. Golfball size hail fell near Sterling in Logan county at about 0400 MST, and a swath of crops 1 1/2 miles wide and 6 miles long, from just west of Merino to just north of Sterling, was severely damaged. Thunderstorm wind gusts were estimated as high as 65 MPH in Sterling; power lines and tree limbs were downed in that city. Severe crop damage also occurred in Iliff, just northeast of Sterling. The hail and wind was accompanied by heavy rain. 2 to 3 inches fell in the Merino area, and an inch fell in 45 minutes 21 miles north of New Raymer in extreme northeastern Weld county. Total crop damage was estimated at \$100,000, with property damage approaching \$50,000.
Mesa County COZ 003	6	2241			0	0	3	0	Tstm. wind (G66)
									A thunderstorm produced a wind of 66 mph at Grand Junction. Strong gusts occurred for a couple of hours, causing damage to power lines and utility poles. A 50 foot tall cottonwood tree was blown down.
Larimer County COZ 011	7	1430MST	0.5	20	0	0	0	0	Tornado (F1)
									A spotter reported a tornado 6 miles northeast of Wellington. It stayed on the ground until 1435MST.
Weld County COZ 012	7	1550			0	0	0	0	Tstm wind (G61) Heavy rain
									A thunderstorm produced a microburst gust of 61 mph at Briggsdale along with over an inch of rain. At Keota, 10 miles to the northeast, 2.25 inches of rain fell in about an hour.
Weld County COZ 012	7	1625			0	0	0	0	Tstm wind (G65)
									A microburst gust of 65 mph was measured 6 miles southeast of Greeley.
Boulder County COZ 011	7	1930			0	1	3	0	Lightning
									Lightning hit a house in Longmont, slightly injuring a woman.
Douglas County COZ 011	9	1345			0	0	0	0	Hail (0.75)
									3/4 inch hail fell 6 miles northwest of Castle Rock.
Douglas County COZ 011	9	1440			0	0	0	0	Hail (0.75)
									3/4 inch hail fell 5 miles northwest of Larkspur.
Boulder County COZ 011	9	1545			0	0	0	0	Hail (0.75)
									3/4 inch hail fell in Boulder.
Weld County COZ 011	9	1730			0	0	3	4	Heavy Rain
									3.30 inches of rain fell in Nunn in less than two hours. Basements and roads in the area were flooded, and some crops of onions and beans were washed away. Grain in an elevator also suffered water damage.
Larimer County COZ 011	11	1800			0	0	0	0	Tstm. winds (Est. G70)
									Thunderstorm wind gusts estimated as high as 70 mph knocked down a few trees and caused power outages in Fort Collins.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1987

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					KILLED	INJURED	PROPERTY	CROPS	
COLORADO									
Chaffee, Saguache Counties COZ 006-009	22	aftn.			0	0	4	0	Lightning, Heavy rain
Thunderstorms and heavy rain occurred over much of Colorado, and resulted in some damage in the south central part of the state. In Salida, in Chaffee county, lightning knocked a radio station off the air and destroyed a transformer, knocking out a TV Translater. Other strikes destroyed a TV set in one home and a propane furnace in another. In Saguache county, mudslides caused by heavy rain did extensive damage to a liquor store in Crestone, and damaged some roads.									
Denver Area COZ 011	22				0	0	3	0	Heavy rain
Over an inch of rain fell in 24 hours throughout most of the Denver area. A library suffered water damage to the ceiling, a carpet, and a few books. By August 24, most spots in the metro area had three day rainfall totals of 2 to 4 inches.									
El Paso County COZ 014	22	1540			0	0	4	0	Lightning
Lightning struck a house in Colorado Springs, knocking a three foot wide hole in its side.									
Boulder County COZ 011	26	1800			0	0	4	0	Lightning
Lightning struck a home in Niwot, blowing out electrical sockets, cracking walls, and damaging a television, lamp, and satellite dish.									
El Paso County COZ 014	28	aftn			0	2	0	0	Lightning
Lightning injured two golfers standing under a tree in Colorado Springs.									
6 CONNECTICUT ————— NONE REPORTED									
7 DELAWARE									
DEZ001 Southern DE	16	Unknown			1	0	0	0	Heavy Surf
A 39 year old man disappeared Sunday while swimming at Bethany Beach. His body was found August 29th. The surf was very rough due to nearly continuous onshore flow that began around August 19. H390									
8 FLORIDA									
Nassau Co., Boulogne	02	1500EST			0	0	4	0	Lightning
Lightning struck a power pole and traveled into a house where a fire started.									
Escambia Co., Molino	02	1520CST			0	0	0	0	TSM wind (55)
Santa Rosa Co., Milton (5mi.E)	02	1600CST	0.5	30	0	0	3	0	Tornado (F1)
Trees were downed in Escambia County. Trees and power lines were downed and a house suffered minor damage in Santa Rosa County.									
Martin Co., Stuart	03	1105EST			0	1	0	0	Lightning
Lightning struck at a construction site and injured a 31 year old male. It was not raining at the time.									
Bay Co., Youngstown	05	1430CST			0	1	0	0	Lightning
Lightning struck and injured a 31 year old male at a construction site. It is not known whether it was raining.									
Lee Co., Fort Myers Beach	10	1210EST			2	2	0	0	Lightning
Two men were struck and killed by lightning while on the beach. Two women received minor injuries. Heavy rainfall occurred shortly after the lightning. M210, M210.									
Pasco Co., Pasco	11	1000EST			0	0	3	0	TSM wind (55)
High wind damaged an apartment roof and debris damaged a car.									
FLORIDA									
Lake Co., Unatilla	11	1400EST			0	0	3	0	TSM wind (55)
High wind damaged two mobile homes, downed power poles, and uprooted trees.									
Putnam Co., Wekaka	11	1730EST	0.5	30	0	0	0	0	Tornado (F0)
The sheriff's office reported a tornado over a wooded area. Trees were downed.									
Manatee Co., Bradenton	19	1300EST			1	0	0	0	Lightning
A 32 year old male was struck and killed by lightning at a construction site. It was not raining at the time. M320.									
Polk Co., Mulberry	19	1700EST	0.5	30	0	0	2	0	Tornado (F0)
A tornado was reported. Power lines were downed.									
Brevard Co., Kennedy Space Center	20	1448EST	1.0	30	0	0	2	-	Tornado (F0)
A tornado was sighted by U.S. Fish and Wildlife officers. The tornado downed trees and did minor damage to a building.									
Hernando Co., Weeki Wachee Springs	21	1430EST			0	1	0	0	Lightning
A 36 year old male was struck and injured by lightning in a parking lot. It is not known whether it was raining.									
Pinellas Co., Oldsmar	21	1500EST			0	0	2	0	TSM wind (55)
High wind destroyed a carport, blew down gutters, and destroyed a screened porch.									
Hillsborough Co., Tampa	21	1530EST			0	0	3	0	TSM wind (55)
High wind blew down a warehouse wall.									
Sarasota Co., Englewood	21	1725EST	2.0	30	0	6	5	0	Tornado (F1)
Charlotte Co., Grove City	21	1725EST	1.0	30	0	0	4	0	Tornado (F1)
Two people suffered broken backs and four suffered minor injuries in a tornado. Thirty-three homes and seven commercial buildings were damaged.									
Duval Co., Jacksonville	24	1743EST			0	0	2	0	TSM wind (53)
A wind gust of 53 knots was observed at Jacksonville International Airport. Trees were downed.									
9 GEORGIA									
Statewide	01-31				8	0	0	?	Heat
The above normal trend in temperature continued through August across Georgia. Eight people died directly as a result of heat exhaustion or heat stroke. Many people were treated for heat related illnesses but less than in July. Most of the people that died were elderly and in un-airconditioned homes with poor ventilation. In one case the body was found in a house whose windows and doors were shut tight. A 40 year-old man died while laying carpet in a house. The date, location, sex and age of the victims are listed below.									
05 Upson Co, Thomaston F74P 05 Carroll Co, Villa Rica M61P 07 Muscogee Co, Columbus F62P 08 Muscogee Co, Columbus M84P 11 Richmond Co, Augusta F41P 12 Muscogee Co, Columbus F60P 14 Bibb Co, Nacon F65P 15 Burke Co, Waynesboro M40P									
Richmond Co, Augusta	01	2120EST			0	0	5	0	Lightning
Lightning caused numerous power outages in and near Augusta and caused a fire that destroyed three houses.									
Henry Co	02	1940EST			0	0	?	0	Tsm Winds
Thunderstorm winds downed trees in scattered areas in the southern part of Henry County south of McDonough.									
Jones Co, 6S Gray	03	1605EST			0	0	?	0	Tsm Winds
Jones Co, Gray	03	1605EST			0	1	0	0	Lightning
Thunderstorm winds downed trees blocking a road six mile south of Gray. A person talking on a telephone in Gray was knocked unconscious when lightning struck nearby.									
Carroll Co, 3S Carrollton	03	1630EST			0	0	5	0	Lightning
Lightning caused a fire that destroyed a church 3 miles south of Carrollton.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 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	
— GEORGIA									
Cobb Co	04	1500EST			0	0	4	0	Lightning
South Cherokee Co	04	1500EST			0	0	4	0	Lightning
North Fulton Co	04	1600EST			0	0	4	0	Lightning
Gwinnett Co	04	1640EST			0	0	4	0	Lightning
	Strong thunderstorms produced intense lightning that caused power outages and started several house fires from eastern Cobb County across northern Fulton County and into Gwinnett County. Lightning caused fires in Roswell, Woodstock, and Stone Mountain caused damage estimated at over \$20,000 at each location.								
Gwinnett Co	08	1500EST			0	0	7	0	Tstm Winds
	08	1545EST			0	0	4	0	Lightning
	Thunderstorm winds down a few trees and power lines across the county. Lightning strikes from the storm caused power outages and several fires. One house suffered moderate smoke and fire damage. The Gwinnett Department of Public Safety headquarters communications system was knocked out by lightning.								
Houston Co,	10	1505EST			0	0	?	0	Tstm Winds
	Thunderstorm winds downed large limbs and power lines between Warner Robins and Centerville.								
Spalding Co, 33W Griffin	11	1530EST			0	0	4	0	Tstm Winds
	An apparent microburst left a damage path 50 to 75 yards wide and 400-500 yards long southwest of Griffin. Three houses and a barn were damaged by trees that were blown down along the path.								
Toombs Co, Vidalia	17	1600EST			0	0	5	0	Tstm Winds
	Thunderstorm winds damaged and destroyed several buildings on a farm near Vidalia.								
Muscogee Co, Columbus	18	1619EST			0	0	6	0	Tstm Winds (54)
Muscogee Co, Columbus	18	1620EST			0	0	6	0	Tstm Winds (59)
Muscogee Co, Columbus	18	1625EST			0	0	5	0	Tstm Winds
	Thunderstorm winds, probably a microburst, hit the Columbus Metropolitan Airport area causing considerable damage. Winds were measured to 62 mph at 4:19 pm EST and 68 mph at 4:20 pm EST. Two small aircraft were destroyed after being pulled from their tie-downs. A cargo plane waiting to take off was lifted slightly into the air and came down on a wing destroying the engines on the wing. Damage to the cargo plane alone was estimated at \$1.5 million. Also damaged at the airport were several hangars. Debris from the airport was blown across the Airport Thruway and into a fence at Britt David Park. Several minutes later, the high winds from the apparent microburst hit the area south and southeast of the airport downing trees and power lines.								
Southwest Cherokee Co	23	1545EST			0	0	?	0	Tstm winds
Southeast Bartow Co	23	1545EST			0	0	?	0	Tstm winds
East Cobb Co	23	1600EST			0	0	5	0	Tstm winds
North Fulton Co	23	1625EST			0	0	5	0	Tstm winds
North DeKalb Co	23	1640EST			0	0	?	0	Tstm winds
	A severe thunderstorm formed just north of Lake Allatoona and moved south across eastern Cobb County and the northern Atlanta Metropolitan area. Thunderstorm winds downed several trees across State Road 20 north of Lake Allatoona. Several trees were downed across southeast Bartow County and east Cobb County. A hangar and some aircraft were damaged by the thunderstorm winds at Dobbins Air Force base and at the Lockheed Aircraft plant. Trees were also downed in northern Atlanta.								
Oglethorpe Co, 6E Lexington	23	1615EST			0	0	?	0	Tstm Winds
	Thunderstorm winds downed three trees and limbs from a oak tree damaged a roof six miles east of Lexington.								
Burke Co, 2N Girard	23	1800EST			0	0	4	0	Tstm Winds
	Thunderstorm winds heavily damaged a double wide mobile home just north of Girard. Many trees were downed in the area and a shed damaged.								
Taylor Co, 3N Reynolds	26	1730EST			0	0	5	0	Tstm Winds
	Thunderstorm winds blew over two mobile homes. 3 miles north of Reynolds.								
Bleckley Co, Cochran	26	1800EST			0	0	?	0	Tstm Winds
	A few trees were uprooted by thunderstorm winds northeast of Cochran.								
Dodge Co, Chauncey	26	1900EST			0	0	5	0	Tstm Winds
	Thunderstorm winds downed several trees in Chauncey. One tree fell on a house causing extensive damage. A carport was destroyed on a nearby house.								
Stewart Co, Lumpkin	31	1430EST			0	0	4	0	Hail (1.75)
	31	1430EST			0	0	?	0	Tstm Winds
	Hail up to the size of golfballs pounded the Lumpkin area. Many windows were broken out of buildings in Lumpkin and many cars had broken windows and dents from the hail. Several trees were also uprooted by the storm.								

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					KILLED	INJURED	PROPERTY	CROPS	
— GEORGIA									
Randolph Co, Cuthbert	31	1600EST			0	0	3	0	Lightning
	Lightning crippled the communications system at the Georgia State Patrol Office in Cuthbert.								
Dooly Co	31	1600EST			0	0	?	0	Tstm Winds
	Thunderstorm winds downed a few trees onto power lines in the southwest part of Dooly County.								
Terrell Co, Dawson	31	1615EST			0	0	?	0	Tstm Winds
	Thunderstorm winds downed several large tree limbs in Dawson.								
Bleckley Co	31	1720EST			0	0	?	0	Tstm Winds
	Trees were downed across Highway 128 northeast of Cochran by thunderstorm winds.								
TO IDAHO									
Valley Co Landmark 10S	4	1530 MST			0	0	5	0	Lightning
	Lightning set the Deadwood Fire in the Frank Church River of No Return Wilderness area and was allowed to burn naturally. As of 10/7/87, the fire had covered over 47,000 acres.								
Blaine Co Hailey 6N	4	1630 MST			0	0	4	0	Tstm wind
	A thunderstorm downdraft removed a large portion of the roof from a luxury home at the mouth of East Fork Canyon.								
Lemhi Co	9	1310- 2000 MST			0	0	4	0	Lightning
	Seven small forest fires were set by lightning.								
Oneida Co, Malad	9	1730 MST	?	?	0	0	4	0	Tornado (F0)
	A "small twister" from a black rotating cloud destroyed the parimutual betting booth at the county fair grounds, uprooted trees, and damaged several buildings. Wind gusts were estimated at 65mph.								
Cassia Co Custer Co	10	1630- 2030 MST			0	0	4	0	Lightning
	Lightning set four forest fires in the Little Cottonwood Creek area of the South Hills of Cassia Co. A forest fire was also set near Basin Butte lookout tower in Custer Co.								
Lemhi Co	22	1700 MST			0	0	4	0	Lightning
	Lightning ignited four forest fires in the Salmon National Forest. Two of the fires were in the Frank Church River of No Return Wilderness Area and were allowed to burn naturally.								
Nez Perce, Lewis and Latah Cos	24	1630- 1700 PST			0	0	0	4	Hail (1.25)
	Hail diameter was 3/4 inch in downtown Lewiston of Nez Perce County and 1.25 inch in Latah County at Troy. Hail was reported in Lewis County at the same time, but the size was unknown.								
Valley Co McCall	24	1945 MST			0	0	4	0	Tstm Wind
	A gust of wind broke off half of a double-topped tree which fell into the upstairs bedroom of an A-frame home. Four hundred homes were without electrical power for four to five hours as a result of the storm.								

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1987

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

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

11 ILLINOIS

Henry Co Colona	03 1345CST					0	0	4	?	Hail (1.5)
Whiteside and Rock Island Counties	03 1345- 1430CST					0	0	5	4	Tstm Wind
Thunderstorm winds caused widespread but minor structural damage. Many large trees toppled; power lines came down and electric outages were common. One quarter to 1/2 inch hail occurred at many locations, and heavy rains resulted in some urban and lowland flooding.										
White Co	03 1428- 1450CST					0	0	4	0	Tstm Wind
Winds toppled trees and damaged television antennas in Crossville, Enfield, and Norris City.										
McHenry Co, Woodstock	03 1617CST					0	0	?	?	Tstm Wind (53)
A wind gust to 61mph was measured at the McHenry County Courthouse in Woodstock.										
Morgan Co, Jacksonville	03 1850CST					0	0	?	?	Tstm Wind (52)
Sixty mph winds damaged trees and power lines.										
Cass Co	03 1900CST					0	0	5	0	Lightning
A lightning-caused fire destroyed a \$100,000 house on Route 78, 1N Morgan/Cass County line.										
Sangamon Co	03 1930- 2012CST					0	0	4	0	Tstm Wind
Winds tore down trees and power lines in Chatham. Several farms between Riverton and Dawson also sustained damage.										
Winnebago Co	04 1515- 1555CST					0	0	5	?	Tstm Wind (57)
Thunderstorm winds caused widespread minor structural damage across the county, and especially in Rockford. A Weather Service employee estimated winds reached 65 mph in Rockford, and a gust to 58mph was measured at the Rockford Airport.										
Boone Co	04 1555- 1620CST					0	0	4	?	Tstm Wind Hail (0.75)
Morgan Co, 2 SW Jacksonville	08 1930CST	1/4	?			0	0	3	?	Tornado (70)
A weak tornado moved a large shed 50 yards.										
Boone, DeKalb, Lee Ogle, and Whiteside Counties	13- 1900- 14 0800CST					1	0	5	4	Flash Flood
Thunderstorms which began 1900CST on the 13th continued until 0800CST on the 14th, depositing 4 to 9 inches of rain across the 5-county area. Flash flooding began almost immediately, as thunderstorms containing locally heavy rains moved across the area. A 23 year old woman drowned near Rochelle (Ogle Co) when her car plowed into deep water on a highway, flipped upside down into water 8 feet in depth. F23V										
Du Page, Cook, Lake Counties	14 0645- 0900CST					3	0	8	5	Flash Flood
IL2003	14- 19					0	0	8	5	Flood
Rainfall unprecedented in 116 years of precipitation records at Chicago occurred during an 18-hour period from the evening of the 13th into the early afternoon of the 14th. The result was the worst flash flood event ever to strike metropolitan Chicago. Flash flooding (a term used here to characterize flooding which occurred within a few hours of the rainfall event) gave way to general river and stream flooding that persisted on area drainages for several days. Three deaths occurred during the flash flood in the Chicago area. Water damage over a 5-day period amounted to \$221,000,000.										
Thunderstorm formed repeatedly over DuPage County and moved northeast across northern Cook and southern Lake counties, and then northeast over Lake Michigan. The same areas thus received intermittent drenching rains for an 18-hour period. Extreme northern Chicago proper and suburban areas to the west, northwest and north of the city bore the brunt of the storm. Only 1 to 3 inches of rain fell across the south half of the metropolitan area.										
O'Hare International Airport, which is the official weather observation station for Chicago, was located at the southeast edge of the area of heaviest rainfall. It received 9.35 inches of rain between 2016CST on the 13th and 1345CST on the 14th. This 18-hour rainfall far surpassed the city's previous 24-hour rainfall record of 6.24 inches.										

— ILLINOIS

Three kinds of urban flooding occurred in metropolitan Chicago in conjunction with the rain event:										
1) Flash flooding on area streams and drainages. About 6 inches of rain fell through the early morning of the 14th, but little flooding occurred because of previous very dry conditions. Then another surge of thunderstorms brought 2 to 5 inches of rain in a 2 1/2-hour period, and flash flooding commenced at about 0645CST. Murky water rose from drainages and small streams and swamped roads, houses and business establishments.										
2) Ponding of water in low areas ordinarily drained by sewer systems. Huge areas of northwest metropolitan Chicago were transformed into large shallow lakes as standing water accumulated 1 to 3 feet in depth (rarely deeper) in low and poorly drained areas. Commercial areas and entire subdivisions and apartment complexes were swamped. Des Plaines, Elk Grove Village, Mount Prospect, Arlington Heights and Wheeling were especially hard hit. Basements filled to the ceiling, and water occupied the first floor of thousands of structures.										
3) General river flooding. Flooding began on Salt Creek and the Des Plaines River by late afternoon on the 14th and continued for several days. On the 16th, an additional 2 to 4 inches of rain maintained high water levels. Flood crests on the Des Plaines River and Salt Creek approached all-time highs recorded only 11 months earlier (September-October, 1986). Salt Creek overflowed substantially in Wood Dale, Addison, Villa Park, Elmhurst, Oak Brook and Brookfield. The Des Plaines River flooded low areas of Des Plaines, Rosemont, northwest Chicago, Schiller Park, Park Ridge, River Grove, Elmwood Park and River-										
O'Hare Airport (the nation's busiest) was literally an island from about 0800CST to the morning of the 15th, accessible only by air. High water blocked all surface approaches to the airport---the rapid transit system and all roads and expressways. The Kennedy Expressway, a primary automobile approach to the airport during normal conditions, became a foot-path for thousands of air travelers who flew into the airport but could leave only by walking out.										
The flood claimed three lives in the Chicago area and a fourth near Rockford (see previous entry). In the Chicago area, a man, 26, was electrocuted in the flooded basement of his home in unincorporated Des Plaines. A boy, age 14, riding on the hood of a truck was electrocuted when he or the truck touched a power line while attempting to negotiate a flooded underpass in Chicago. A third man, age 35, died after he lost control of his truck when it plowed through high water on the Kennedy Expressway. The truck hit a concrete barrier. M26P, M14V, M35V										
N Half of state	16									Severe thunderstorms lashed portions of the north half of Illinois during the afternoon and evening of the 16th. The storms brought damaging winds, large hail, and flash-flood producing rains at many locations. Rains of 1 to 5 inches fell, adding to flood problems which began with heavy rain events earlier in the month. Total damage was on the order of \$12,000,000 in property (mainly from flooding in the Chicago area) and \$4,000,000 in reduced crop yields. Winds of 40 to 80 mph, often accompanied by pounding rain and 1/2 to 3/4 inch hail, flattened huge areas of crops. Many prime agricultural areas across the north third of the state were turned into large, shallow lakes in the aftermath. Urban flooding occurred in many communities, but was especially severe in northwest metropolitan Chicago (which was deluged by 6 to 11 inches of rain only 1 1/2 days earlier). Significant events are listed below:
Jo Daviess County	16 1645CST					0	0	5	0	Tstm Wind (62)
70-mph winds damaged houses and toppled trees, especially in Stockton and Hanover.										
Stephenson County, Lena	16 1705CST					0	1	5	0	Tstm Wind (58)
A woman in a car was injured when a tree toppled onto it. Fallen trees also damaged several houses. Winds in the area were measured at 67 mph by a cooperative weather observer.										
Winnebago County	16 1730CST					0	0	5	?	Tstm Wind
Fallen trees damaged many houses across the county, especially in the Durand area.										
Adams County, Quincy	16 1800CST					0	0	5	0	Tstm Wind (65)
Thunderstorm winds gusted to 75 mph. A mobile home was rolled over, and tents at the Knights of Columbus barbeque were toppled.										
Rock Island, Henry Mercer, Bureau, Henderson, Warren, Whiteside, Knox, Stark	16 1800- 2000CST					0	0	5	?	Tstm Wind (65)
High thunderstorm winds toppled trees and power lines, damaged houses and rural structures, and pulled down power lines across the counties. Wind gusts to 75 mph were measured at Galva, and many local police estimated winds between 60 and 80 mph. Moline, East Moline, Galva, Altona, LaFayette, Nekoma, Monmouth, and Galesburg all reported considerable wind damage. Many roads in those towns were blocked by fallen trees.										

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1987

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					KILLED	INJURED	PROPERTY	CROPS	
ILLINOIS									
Ogle and Lee Counties	16	1910CST			0	0	5	?	Tstm Wind (68)
									Thunderstorm winds of 78 mph toppled many trees and power lines. Small hail, driven by strong winds, broke windows in Monroe Center. High voltage tower, designed to withstand winds of 75 mph, toppled, resulting in widespread power outages.
DeKalb County, Malta	16	1900CST			0	0	5	4	Tstm Wind
									Seven farm buildings were damaged south of Malta, and 2 barns were destroyed.
Boone County	16	1900CST			0	0	5	4	Tstm Wind
									One thousand electric utility customers were without power.
Jo Daviess, Ogle, Stephenson, Boone, Winnebago, Carroll, DeKalb, McHenry, Lake, Kane, DuPage Whiteside, Lee Counties	16	1900-2330CST			0	0	5	6	Flash Flood
									Widespread flash flooding inundated agricultural areas of the counties. Large sections became shallow lakes. Crop yields were reduced by an estimated 15% on some fields. Many rural roads washed out.
Sangamon County, Springfield	16	2027CST			0	0	5	?	Tstm Wind (60)
									One-half inch hail and 69 mph winds were recorded at Capital Airport.
Sangamon County, Springfield	16	2032CST			0	58	4	0	Tstm Wind (70)
									Winds of 80 mph toppled two large beer tents at the Illinois State Fair. 58 people were injured, one seriously.
LaSalle, Putnam Counties	16	2050-2150CST			0	0	5	5	Tstm Wind
									Thunderstorm winds toppled trees at many locations. Minor structural damage was reported in many communities in LaSalle County. (a tornado, entered separately, also occurred in association with this thunderstorm)
De Witt, Piatt, McLean, Macon, Ford, Champaign Counties	16	2105-2200CST			0	0	5	?	Tstm Wind (65)
									Winds estimated, reliably, at 75 mph caused widespread damage across the counties.
LaSalle County, Ottawa Airport	16	2115CST	1	?	0	0	5	0	Tornado (F2)
									A moderately strong tornado tore through the Ottawa Airport, completely destroying one hangar. Two others were damaged by flying debris. Three planes also sustained severe damage. The distribution of debris, as well as a long and relatively narrow damage path, confirmed a tornado occurrence. Fallen trees also suggested counterclockwise wind rotation in the tornado. Total damage was about \$200,000.
Menard, Logan Counties	16	2130CST			0	0	5	0	Tstm Wind (65)
		2130CST			0	0	0	0	Hail (0.75)
Cook and Lake Counties	16	2210-2330CST			0	0	5	?	Tstm Wind (65)
		2230-2400CST			0	0	7	?	Flash Flood
		2232CST			0	0	?	?	Hail (0.75)
									Two to 4 inches of rain fell across areas still flooded from a rain of 6 to 11 inches only 1 1/2 days earlier. Severe urban flooding occurred across the northwest half of metropolitan Chicago. Streams overflowed into commercial and residential areas, and streets turned into temporary rivers. Large sections of residential northwest Cook and southern Lake Counties were swamped by 1 to 2 feet of water. O'Hare Airport measured winds of 64 mph and 3/4" hail at 2232CST. Winds toppled many trees across southern Lake and northern Cook counties.
Kendall, LaSalle, Grundy, Marshall, Putnam, Livingston, Will, Kankakee, Iroquois Counties	16	2200-2400CST			0	0	6	6	Flash Flood
									Two to 5 inches of rain fell in a 3-hour period, causing widespread ponding of water on the flat plains of northern Illinois. Prime agricultural areas were inundated. Urban flooding also occurred in many communities. In Morris (Grundy County) 2 inches of rain fell in less than one hour around 2230CST.
Grundy County, Morris	16	2235CST			0	0	4	4	Tstm Wind (51)
									Winds were measured at 59 mph in Morris, but estimates of 70 mph were common. Many vehicles were damaged by fallen trees.
ILLINOIS									
Rock Island County	21	0100-0135CST			0	0	4	?	Tstm Wind
									Thunderstorm winds, unreliably estimated at 90 mph, damaged many trees at scattered locations. Police at Milan estimated winds at 70 mph, and in that community several roads were blocked by downed trees and power lines.
Rock Island County, Milan	21	0130CST			0	0	?	?	Hail (1.75)
Rock Island County, Moline	21	0240CST			0	0	3	?	Hail (1.00)
Rock Island County, Moline	21	0326CST			0	0	4	?	Tstm wind(70)
Rock Island, Henry Mercer, Whiteside, Knox, Stark, Peoria Counties	21	0100-0540CST			0	0	7	6	Tstm Wind (71)
	21	0200-0530CST			0	0	6	6	Flash Flood
									Vicious thunderstorms ravaged a 7-county area in west-central Illinois on a northwest to southeast rampage. Thunderstorms first crossed the Mississippi River from Iowa into Illinois in the Moline area around 0100CST then pushed 80 miles to the southeast, to the vicinity of Peoria. Much damage resulted. Discrete damage occurrences were difficult to identify because many areas experienced several severe weather occurrences. Individual severe thunderstorms existed for several hours in a very unstable air mass, and their outflow boundaries interacted with each other to produce new thunderstorms across the 7-county area for much of the early morning. High winds, large hail, and flooding rains combined to produce a damage total of about \$12,000,000 across the 7-county area. Thunderstorms were most intense, and most of the urban damage occurred, in the East Moline and Silvis areas of Rock Island County. The Moline weather office measured winds of 82 mph at 0331CST. One-half inch hail and 3 inches of rain also occurred there. Hail nearly the size of golf balls accompanied by 60 to 80 mph winds broke hundreds of windows and damaged 2000 cars (by estimate of insurance agents) in Moline and vicinity. Flash flooding in the Moline area occurred on Duck, Blackhawk, Mill and Geneseo Creeks. Urban flash flooding was common in communities across the 7-county area. Water stood 2 to 4 feet deep in many highway intersections for a few hours. Crop damage from wind, hail, and ponding of water was estimated at \$4,000,000.
De Kalb Co De Kalb	25-26	2100-1830CST			0	0	5	0	Flash Flood
									Severe urban flash flooding (mainly in the form of ponding of water in low areas) occurred in De Kalb when 4.5 inches of rain fell in a 21-hour period. Such rain would ordinarily not cause significant flooding, but in this instance previous excessive rains had left the area saturated. Water accumulated 1 to 3 feet in depth in many low area of the community.
Madison Co Glen Carbon	26	1530-1545CST			1	0	4	?	Tstm Wind
									40 to 50mph winds brought down tree limbs. A 60 year old woman was electrocuted by a fallen wire. P600
St. Clair Co Belleville	26	1600-1630CST			0	0	4	?	Tstm Wind
									Downed power lines interrupted electric service to 1500 utility customers. Several rural structures (small barns, sheds, etc.) also were destroyed.
N Third of State									entire month Excessive Rain Excessive rainfall totaled the north third of Illinois during the month. Rainfall totals ranged up to 500 percent of August normals. Monthly totals of 17.10 inches at Chicago and 15.23 inches at Moline established new all-time highs for any month at those cities. In addition to floods and flash floods which resulted in 4 deaths and great property loss, agricultural losses were significant. Flooded croplands prevented normal field work and resulted in reduced crop yields.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 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	

12 INDIANA

Noble Co	2	1638 EST			0	0	4	0	Twind
2W Rome City	2	1700 EST			0	0	2	0	Twind
Kendalville	2	1700 EST			0	0	0	0	Hail (1.75)
Albion	2	1715 EST			0	0	4	0	Twind
Brimfield	2	1720 EST			0	0	3	0	Twind
15 Burr Oak	2	1731 EST			0	0	3	0	Twind
45W Albion	2	1745 EST			0	0	4	0	Twind
Knapp Lake									

Strong thunderstorm winds caused an estimated \$400,000 in damage in Noble County. Just west of Rome City, a home was destroyed by fallen trees. In Brimfield 2 homes were damaged by fallen trees. Trees, power lines, and poles were reported down near Rome City, Kendalville, Brimfield, and Burr Oak. Golfball size hail fell in Albion. A farm silo was blown across State Road 109 southwest of Albion. Downed power lines blocked U.S. 33 in the southern part of the county, and a house was destroyed by uprooted trees in Noble Township. In Knapp Lake the north side of a home was destroyed by fallen trees, and trees and power lines were downed.

DeKalb Co	2	1745 EST			0	0	4	0	Twind
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Strong thunderstorm winds downed numerous trees and power lines across the southern part of the county between 1730 and 1800 EST. Additionally, some homes were damaged by fallen trees.

Allen Co	2	1800 EST			0	0	2	0	Twind
Harlan	2	1820 EST			0	0	2	0	Twind

Strong thunderstorm winds downed trees near Harlan and telephone poles in Monroeville.

Wells Co	2	2120 EST			0	0	2	0	Twind
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Strong thunderstorm winds downed trees.

Madison Co	3	0015 EST			0	0	3	0	Twind
Chesterfield	3	0030 EST			0	0	2	0	Twind

Strong thunderstorm winds downed trees and power lines. Minor damage to a house and a barn also occurred.

Laporte Co	16	2315 EST			0	0	?	?	Twind
Michigan City	16	2330 EST			0	0	?	?	Twind

Michigan City Coast Guard reported winds to 58 mph. In Laporte strong thunderstorm winds downed several trees.

St. Joseph Co	17	0030 EST			0	0	?	?	Twind
45W South Bend	17	0030 EST			0	0	?	?	Twind

Strong thunderstorm winds downed a large tree at Koontz Lake and 2 trees near South Bend.

St. Joseph Co	21	0803 to 0821 EST			0	0	0	0	High Wind
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Strong winds accompanying a cold front reportedly caused a large tent to collapse in Mishawaka. Throughout St. Joseph County, 31 trees were downed, causing scattered power outages. At least one auto was damaged by a falling tree. Peak gust of wind at WSO South Bend was 36 mph at 0820 EST.

Cass Co	21	1356 EST			0	0	0	0	Hail (1.75)
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13 IOWA

Pottawattamie County	03	0532 CST			0	0	3	1	Tstm Winds (51)
Carter Lake									Wind gusts broke tree limbs and damaged power lines in Carter Lake. A gust to 59 MPH was recorded at nearby Omaha Eppley Airport.

Cass County	03	0600 CST			0	0	3	0	Lightning
Griswold									Lightning struck the chimney of a house, causing it to fall through the roof.

Winneshock County	03	0739 CST			0	0	5	5	Tstm Winds
Forest City									A thunderstorm packing 89 MPH winds struck Forest City. Plate glass windows were broken out, sheds were blown over, and numerous large trees were downed.

Carroll County	03	0745 CST			0	0	4	4	Tstm Winds (50+)
3 S Ralston									Thunderstorm winds downed 3 large trees and blew over 2 empty grain bins south of Ralston.

IOWA

Clinton County	03	1350 CST			0	0	5	4	Tstm Winds (70)
Clinton									Lightning
Scott County	03	1355 CST			0	0	3	3	Tstm Winds (50+)
Princeton									

A line of thunderstorms moved through East Central Iowa. Numerous trees were blown down in Clinton and Scott Counties. The City of Clinton was the hardest hit. Winds of up to 80 MPH caused some structural damage to houses, and removed the roof from one building. A house was set on fire by lightning in Clinton.

Wapello County	03	1510 CST			0	0	4	4	Tstm Winds (50+)
Eldon									
Davis County	03	1525 CST			0	0	4	4	Tstm Winds (50+)
Floris									
Van Buren County	03	1530 CST			0	0	4	5	Tstm Winds (65)
Douds									
Henry County	03	1615 CST			0	0	4	4	Tstm Winds (50+)
New London									

A line of thunderstorms tracked across Southeast Iowa. Winds downed or uprooted many trees. Winds of up to 75 MPH took doors off a machine shed at Douds.

Pottawattamie County	07	1955 CST			0	0	5	3	Tstm Winds (50+)
Council Bluffs									
Oakland	07	1955 CST			0	0	4	5	Hail (1.75)
Pottawattamie County	07	2000 CST			0	0	7	6	Flash Flood
Pottawattamie County	07	2000 CST			0	0	4	0	Lightning
Council Bluffs									
Montgomery County	07	2030 CST			0	0	4	3	Flash Flood
Red Oak									
Crawford	07	2200 CST			0	0	4	0	Lightning
3NE Dunlap									

Severe thunderstorms moved into West Central and Southwest Iowa. Golf ball size hail and 55 to 60 MPH winds swept through Council Bluffs. Lightning struck a house in Council Bluffs, setting it on fire. A barn was struck in Crawford County, setting it on fire and destroying it. Heavy rains of up to 7.1 inches fell in Council Bluffs and 6.25 inches around Oakland. Widespread street and underpass flooding occurred with a number of roads washed out. Homes and businesses were flooded by the runoff and backed up storm sewers. Manhole covers were blown into the air by the water pressure. Some mud slides were reported in the hills around Council Bluffs. Other severe crop damage and soil erosion was reported. In Montgomery County, 4.5 inches of rain fell at Red Oak, washing out a few County roads and damaging crops. Winds also blew down trees in the Red Oak area.

Muscatine County	08	1530 CST			0	0	0	0	Funnel Clouds
Muscatine									Several funnel clouds were observed near the Muscatine Airport.
NE2010-IA2012-Southwest Iowa	08	All Day			0	0	5	5	Flooding
	10	All Day							Heavy rains caused flooding along many rivers and streams in Southwest Iowa.

IA2013-South Central Iowa	13	All Day			0	0	4	4	Flooding
	16	All Day							Heavy rains over South Central Iowa caused some minor flooding along the Chariton River.

Adair County	14	2130 CST			0	0	4	0	Lightning
3N Fontanelle									
Clarke County	14	2215 CST			0	0	4	4	Tstm Winds (70)
Osceola									

A line of thunderstorms moved through Central and South Central Iowa. Several cattle were killed by lightning on a farm north of Fontanelle. Winds of up to 80 MPH hit Osceola, causing some building damage in the area.

Sac County	16	0355 CST			0	0	3	4	Tstm Winds (50+)
Schaller									A thunderstorm moved through Schaller. The winds downed several trees.

Fayette County	16	0700 CST			0	0	3	4	Tstm Winds (60)
Oelwein									A thunderstorm produced winds near 70 MPH at Oelwein. Several large trees were downed at Oelwein.

Marshall County	16	1458 CST			0	0	3	4	Hail (1.75)
LeGrand									
3SW LeGrand	16	1500 CST			0	0	3	4	Hail (2.00)
Tama County	16	1507 CST			0	0	4	5	Hail (3.75)

Montour	16	1530 CST			0	0	3	4	Tstm Winds (52)
Cedar County	16	1555 CST			0	0	3	4	Tstm Winds (50+)
West Branch	16	1555 CST			0	0	3	4	Hail (1.75)

Maquoketa	16	1605 CST			0	0	3	4	Tstm Winds (52)
Otter Creek	16	1641 CST			0	0	4	4	Tstm Winds (50+)
Belleuve	16	1641 CST			0	0	3	4	Hail (1.75)

Linn County	16	1630 CST			0	0	0	0	Funnel Cloud
5N Marion	16	1630 CST			0	0	3	4	Tstm Winds (56)
Robbins	16	1634 CST			0	0	4	4	Tstm Winds (59)
Whittier	16	1645 CST			0	0	4	4	Tstm Winds (61)
Jones County	16	1715 CST			0	0	4	4	Tstm Winds (61)

Anamosa	16	1800 CST			0	0	3	0	Lightning
Dubuque County	16	1815 CST			0	0	5	4	Tstm Winds
Dubuque									
Scott County	16	1815 CST			0	0	5	4	Tstm Winds
Davenport									

Thunderstorms developed over Central Iowa and raced east at over 60 MPH. At first, the storms produced golf ball to as large as soft ball size hail. Later, the main event was the 60 to 70 MPH winds. A funnel cloud was reported 5 miles north of Marion. A roof was blown off a building in Eastern Linn County. Some struc-

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 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	

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IOWA

<p>Calhoun County: 4S Rinard Farnhamville Boone County, 3W Boone Jasper County, 7SW Newton</p>		17 1545 CST							Funnel Cloud
		17 1554 CST	.4	15	0	0	0	3	Tornado (FO)
		17 1710 CST			0	0	3	4	Hail (1.75)
		17 1839 CST			0	0	2	4	Hail (1.50)
<p>A cluster of thunderstorms developed over Calhoun County. A funnel cloud was sighted 4 miles south of Rinard. A few minutes later a small tornado touched down in a field near Farnhamville. Hail, up to golf ball size, was reported from Boone County to Jasper County.</p>									
<p>Linn County, 1E Marion</p>		18 0523 CST	.3	15	0	0	4	3	Tornado (FO)
<p>A tornado touched down briefly east of Marion. A chicken coop was destroyed. There was some damage to several other farm buildings.</p>									
<p>Page County, Shenandoah</p>		19 1310 CST			0	0	3	2	Tstm Winds (52)
<p>A thunderstorm produced winds of 60 MPH at Shenandoah.</p>									
<p>Linn County, 5N Cedar Rapids</p>		20 2315 CST			0	0	4	3	Hail (.75)
<p>Muscatine County: Wilton</p>		21 0030 CST			0	0	4	4	Tstm. Winds (65)
<p>Muscatine</p>		21 0038 CST	1	20	0	0	5	4	Tornado (F1)
<p>Buchanan County, Independence</p>		21 0045 CST			0	0	5	5	Hail (2.50)
<p>Cedar County, West Branch</p>		21 0115 CST	1	20	0	0	5	4	Tornado (F1)
<p>Scott County, Davenport</p>		21 0117 CST			0	0	4	3	Hail (1.75)
<p>Fayette County, Oelwein</p>		21 0130 CST			0	0	5	0	Lightning
<p>Scott County</p>		21 0326 CST			0	0	5	4	Tstm Winds
<p>Scott County, Davenport</p>		21 0330 CST			0	0	5	5	Hail (2.00)
<p>Scott County</p>		21 0400 CST			0	0	5	5	Flash Flood
<p>A line of thunderstorms developed over Northeast and East-Central Iowa, then moved southeast. Dime size hail accumulated to a depth of 3 to 5 inches north of Cedar Rapids. Nearly baseball size hail caused considerable damage to cars in Independence. Lightning struck a building in Oelwein, causing \$120,000 in damage due to fire. Two tornadoes occurred. The first was at Muscatine, where 41 trailer homes were damaged or blown off their foundations. The second touched down at West Branch, where the roof of a house was ripped off. The Quad-Cities were struck by larger than golf ball size hail which accumulated to a depth of 6 inches in several areas. Winds of 81 MPH were recorded at the airport at Moline. These winds blew down several hundred trees and caused considerable damage in the city. Heavy rains prompted the issuance of a Flash Flood Warning for Scott County. In Davenport, basements were flooded as well as street intersections. Water was 4 feet deep in places.</p>									
<p>Montgomery County</p>		25 0500 CST			0	0	6	7	Flash Flood
<p>Heavy rains flooded farmlands, damaging crops and pushing streams out of their banks. Over ten inches of rain (10.5) was reported near Stanton and around 7 inches at Red Oak. Roads were flooded and some bridges damaged. Basements were flooded and sewers backed up at Red Oak and Stanton.</p>									
<p>NEZ010-ILZ004- IAZ010-011-012-013- 014-015- South Half of Iowa</p>		25 Morning 31 All Day			0	0	7	7	Flooding
<p>Heavy rains on the 25th and 26th fell on the Southern half of Iowa. Amounts were between 4 and 14 inches in most areas. Southwest Iowa had the most with 7 to 14 inches common. Considerable damage was done to the property, roads and agricultural lands. Some streams crested as much as 10 feet over Flood stage.</p>									

14 KANSAS

<p>Geary Co Junction City</p>		03 1610CST							Lightning
<p>Lightning set fire to the attic of a home in Junction City. Firemen contained and extinguished the fire before it spread, but a great deal of smoke and water damage was done.</p>									
<p>Scott Co Pence</p>		03 1740CST			0	0	4	4	Hail (1.5), TSTM Wind (70)
<p>5N Scott City</p>		03 1745CST			0	0	4	4	Hail (2.0)
<p>A severe thunderstorm dropped large hail and produced strong wind gusts north of Scott City.</p>									
<p>Edwards Co 2SE Kinsley</p>		03 1830CST			0	0	5	5	TSTM Wind Dmg, Hail (1.0)
<p>Strong winds hit an area southeast of Kinsley. The winds tore up 15 center pivot irrigation systems and knocked down 55 power poles. Three thousand acres of Corn and Soybeans also suffered a 50 percent loss.</p>									

KANSAS

<p>Geary Co Junction City</p>		04 0010CST							Lightning
<p>Lightning set fire to a condominium in Junction City. The unit was gutted and most of its contents were lost.</p>									
<p>Phillips Co Glade</p>		06 1615CST			0	0	0	4	Hail (1.0)
<p>Osborne Co 1S Portis</p>		06 1650CST			0	0	3	3	Hail (.75)
<p>Smith Co Smith Center</p>		06 1700CST			0	0	5	3	Hail (3.0)
<p>1.5N Smith Center</p>		06 1700CST			0	0	4	3	Hail (2.75)
<p>Lebanon</p>		06 1730CST			0	0	3	3	Hail (1.75)
<p>Republic Co 1W Belleville</p>		06 1745CST			0	0	3	3	Hail (1.75)
<p>Cuba</p>		06 1810CST			0	0	3	3	Hail (1.75)
<p>Jewell Co Burr Oak</p>		06 1753CST			0	0	3	3	Hail (1.5)
<p>Lovevell</p>		06 1850CST			0	0	3	3	Hail (1.0)
<p>Washington Co 2S Haddam</p>		06 1820CST			0	0	3	3	Hail (.75)
<p>Cloud Co 10E Concordia</p>		06 1923CST			0	0	2	3	TSTM Wind (52)
<p>7E Concordia</p>		06 1931CST			0	0	2	3	TSTM Wind Dmg
<p>12ESE Concordia</p>		06 1945CST			0	0	2	3	TSTM Wind Dmg
<p>Clay Co 4SW Clifton</p>		06 1935CST			0	0	2	3	Hail (.75)
<p>Clay Center</p>		06 1954CST			0	0	2	3	Hail (.75)
<p>Clay Center</p>		06 2013CST			0	0	2	3	Hail (.75)
<p>A cluster of severe thunderstorms formed between Phillipsburg and Smith Center. They moved and spread east and southeast through Concordia, Belleville and Clay Center. Large hail fell in a few spots and caused minor damage. Major roof, window and vehicle damage was done when hail the size of baseballs hit Smith Center, though. Damage was most severe in a 2 mile wide strip from 3 miles west of Smith Center to just east of the town. Strong thunderstorm winds also blew down several barns in Eastern Cloud County.</p>									
<p>Gove Co 3S Grainfield</p>		06 1627CST			0	0	0	0	Funnel
<p>Grainfield</p>		06 1645CST			0	0	0	3	Hail (.75)
<p>7NW Gove</p>		06 1740CST			0	0	0	3	Hail (.75)
<p>A funnel was sighted briefly south of Grainfield. Three quarter inch hail fell at Grainfield and northwest of Gove. Little damage resulted.</p>									
<p>Graham Co 7NE Hill City</p>		06 1815CST			0	0	0	3	Hail (.75)
<p>A thunderstorm dropped 3/4 inch hail north of Hill City. Only minor crop damage resulted.</p>									
<p>Riley Co 2NW Manhattan</p>		06 2200CST			0	0	5	0	Lightning
<p>Lightning struck a home northwest of Manhattan. Fire destroyed the top level of the house and most of its contents.</p>									
<p>Clay Co 1S Wakefield</p>		07 1819CST			0	0	2	3	TSTM Wind (52)
<p>Thunderstorm winds estimated at 60mph blew down several trees near Wakefield.</p>									
<p>Republic Co Belleville</p>		07 1900CST			0	3	0	0	Lightning
<p>Lightning struck the fairgrounds in Belleville and injured three people. One person was taken to the hospital and kept overnight. The other two were examined at the fair and released.</p>									
<p>Scott Co Scott City</p>		12 1500CST			0	1	0	0	Lightning
<p>A young man suffered a minor burn to his leg when lightning struck a house and the charge traveled down a gutter spout, through his body and out through his leg.</p>									
<p>Sedgwick Co McConnell AFB</p>		12 1655CST			0	0	3	0	TSTM Wind (69)
<p>A thunderstorm wind gust of 80 mph was measured at McConnell AFB in Wichita. Little damage resulted.</p>									
<p>Washington Co Washington</p>		14 1825CST			0	0	2	3	Hail (.75)
<p>Marshall Co 1E Vermillion</p>		14 1910CST			0	0	2	3	Hail (.75), Funnel
<p>Nemaha Co 3W Centralia</p>		14 1910CST			0	0	0	3	Hail (.75)
<p>3SE Seneca</p>		14 1820CST			0	0	4	0	TSTM Wind Dmg
<p>A severe thunderstorm formed southwest of Washington and moved east toward Seneca. It dropped 3/4 inch hail in a few spots. Strong winds damaged sheds and barns at four farms southeast of Seneca.</p>									

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					KILLED	INJURED	PROPERTY	CROPS		
KANSAS										
Reno Co 1S Turon Arlington	15	1735CST			0	0	3	0	TSTM Wind Dmg	
	15	1823CST			0	0	2	3	Hail (.75)	
A severe thunderstorm formed southwest of Hutchinson. Strong winds took the roof from a barn south of Turon and damaged trees in the town. Three quarter inch hail fell later at Arlington.										
Graham Co 5E Hill City 6E Hill City	17	1949CST			0	0	0	3	Hail (1.0)	
	17	1958CST			0	0	0	4	Hail (1.0)	
Rooks Co Plainville	17	2030CST			0	0	3	3	TSTM Wind (60)	
Ellis Co 17N Hays Hays	17	2055CST			0	0	0	3	Hail (1.0)	
	17	2106CST			0	0	5	3	Hail (2.0)	
	17	2125CST			0	0	4	4	Hail (1.75)	
Munjoy 5N Hays	17	2130CST			0	0	4	4	Hail (2.0), TSTM Wind (50)	
Russell Co 3S Gorham Wilson Dam	17	2138CST			0	0	2	3	Hail (1.75)	
	17	2200CST			0	0	2	3	TSTM Wind (56)	
Barton Co 4E Galatia 2E Otis	17	2225CST			0	0	3	4	Hail (.75)	
	17	2250CST			0	0	3	4	Hail (1.75), TSTM Wind Dmg	
Olmitz Great Bend	17	2259CST			0	0	3	4	Hail (1.0)	
	17	2302CST			0	0	3	2	Hail (.75)	
Rush Co Otis	17	2240CST			0	0	3	3	Hail (1.0), TSTM Wind (50)	
Rice Co Lyons Airport	17	2330CST			0	0	4	2	TSTM Wind (71)	
A line of severe thunderstorms dropped large hail and produced occasional strong wind gusts as it moved from Hill City through Plainville, Hays, Great Bend, Russell and Lyons. Hail broke windows and damaged roofs at several places. Windows were broken at several homes in Hays and the area around Munjoy. Winds knocked down power poles east of Otis. A wind gust of 82 mph was measured at the Lyons Airport.										
Saline Co 1S Salina Eypsum	17	2052CST			0	0	3	3	Hail (1.0)	
	17	2100CST			0	0	3	3	Hail (.75)	
McPherson Co Canton Canton Galva Canton	17	2056CST			0	0	3	3	TSTM Wind (52)	
	17	2209CST			0	0	3	3	TSTM Wind (52)	
	17	2222CST			0	0	3	3	TSTM Wind (52)	
	17	2333CST			0	0	3	3	TSTM Wind (52)	
Dickinson Co 3E Solomon	17	2136CST			0	0	2	3	Hail (.75)	
A severe thunderstorm formed near Salina and moved east through Solomon. This storm dropped 3/4 inch hail in some spots. A series of storms then reformed over McPherson County and produced strong winds as they crossed the Canton and Galva communities.										
Washington Co Hanover	17	2205CST			0	0	3	4	Hail (1.5), TSTM Wind (52)	
Washington 1NE Clifton	17	2256CST			0	0	3	4	Hail (1.0)	
	17	2320CST			0	0	2	3	TSTM Wind Dmg	
Marshall Co Herkimer 1N Marysville Marysville 4NW Frankfort Waterville Lillis	17	2225CST			0	0	4	5	Hail (1.5)	
	17	2235CST			0	0	3	4	Hail (1.0)	
	17	2250CST			0	0	4	4	Hail (1.75)	
	17	2305CST			0	0	3	4	Hail (.75)	
	17	2310CST			0	0	5	5	Hail (1.0)	
	17	2320CST			0	0	2	4	Hail (.75)	
Riley Co 5N Randolph Pottawatomie Co Westmoreland	17	2315CST			0	0	2	3	Hail (1.0)	
	17	2340CST			0	0	2	2	TSTM Wind Dmg	
A cluster of severe thunderstorms moved out of Nebraska through Washington and Marysville. The storms dropped large hail and caused a great deal of crop damage in Marshall and Washington Counties. Crops were hit especially hard around Herkimer and north of Waterville.										
Russell Co Russell Airport Wilson Dam	18	0027CST			0	0	2	3	TSTM Wind (67)	
	18	0032CST			0	0	2	3	TSTM Wind (52)	
Outflow winds from a thunderstorm caused minor damage in parts of Russell County. A wind gust of 77 mph was measured at the Russell Airport.										
Barton Co 7E Galatia	18	0820CST			0	0	2	3	Hail (.75)	
A severe thunderstorm dropped 3/4 inch hail briefly east of Galatia.										
KANSAS										
Atchison Co Atchison Airport Leavenworth Co Leavenworth Wyandotte Co Kansas City Johnson Co Overland Park	18	0115CST			0	0	4	0	TSTM Wind Dmg	
	18	0200CST			0	0	3	0	TSTM Wind Dmg	
	18	0230CST			0	0	4	0	TSTM Wind Dmg	
	18	0235CST			0	0	4	0	TSTM Wind (52)	
A thunderstorm produced winds estimated at 60 to 70 mph as it moved from Atchison to Kansas City and into Missouri. Trees and power lines were damaged along the storm's path. Half the roof was ripped from a hangar at the Atchison Airport.										
Brown Co 3S Reserve 1N Htwatha	19	1413CST			0	0	4	5	Hail (1.75)	
	19	1419CST			0	0	4	5	Hail (1.75)	
Doniphan Co Near Severance	19	1440CST			0	0	3	5	Hail (1.75), TSTM Wind Dmg	
	19	1440CST			0	0	3	5	Hail (1.75), TSTM Wind Dmg	
Marshall Co 6NE Frankfort	19	1514CST			0	0	4	5	Hail (1.0), TSTM Wind (52)	
Axtell Yermillion	19	1520CST			0	0	4	5	Hail (1.5)	
	19	1525CST			0	0	4	5	Hail (1.5)	
Nemaha Co Centralia	19	1540CST			0	0	4	4	Hail (.75)	
Pottawatomie Co 3E Onaga Havensville	19	1550CST			0	0	4	3	Hail (1.5)	
	19	1550CST			0	0	3	3	Hail (1.0)	
	19	1600CST			0	0	2	3	Hail (1.0)	
Jackson Co Soldier Circleville Mayetta Hoyt	19	1550CST			0	0	4	5	Hail (1.75)	
	19	1555CST			0	0	4	5	Hail (1.75)	
	19	1610CST			0	0	5	4	Hail (2.75)	
	19	1620CST			0	0	5	4	Hail (2.75)	
Shawnee Co Rossville Elmont North Topeka Topeka Billiard Airport 5SE Topeka	19	1616CST			0	0	3	3	TSTM Wind (52)	
	19	1625CST			0	0	5	5	Hail (2.5)	
	19	1630CST			0	0	5	4	Hail (2.75)	
	19	1635CST			0	0	3	0	TSTM Wind (52)	
	19	1639CST			0	0	5	4	Hail (2.0)	
	19	1645CST			0	0	4	5	Hail (1.5)	
Osage Co Overbrook	19	1700CST			0	0	4	5	Hail (1.0), TSTM Wind (56)	
Yassar Douglas Co Clinton Lake Franklin Co Centropolis	19	1720CST			0	0	4	5	Hail (1.0)	
	19	1700CST			0	0	3	0	TSTM Wind (56)	
	19	1710CST			0	0	3	4	Hail (1.0), TSTM Wind (52)	
Ottawa	19	1721CST			0	0	5	4	TSTM Wind Dmg, Hail (1.0)	
Princeton	19	1733CST			0	10	6	6	TSTM Wind Dmg, Hail (2.0)	
Richmond	19	1740CST			0	0	5	5	TSTM Wind Dmg, Hail (2.0)	
Johnson Co Edgerton Olathe Airport Anderson Co Scipio Greeley	19	1720CST			0	0	3	0	TSTM Wind (52)	
	19	1724CST			0	0	3	0	TSTM Wind (50)	
	19	1745CST			0	0	4	5	Hail (1.75)	
	19	1750CST			0	0	4	5	Hail (1.75), TSTM Wind Dmg	
Bush City	19	1750CST			0	0	4	5	Hail (1.75), TSTM Wind Dmg	
Garnett Miami Co Paola	19	1810CST			0	0	4	3	TSTM Wind (61)	
	19	1800CST			0	0	4	3	TSTM Wind (61), Hail (1.0)	
Linn Co Centerville Prescott	19	1815CST			0	0	4	0	TSTM Wind Dmg	
	19	1815CST			0	0	4	0	TSTM Wind Dmg	
Bourbon Co Fulton Fort Scott Fort Scott	19	1839CST			0	0	4	0	TSTM Wind (69)	
	19	1900CST			0	0	3	0	TSTM Wind (52)	
	19	1920CST			0	0	4	0	TSTM Wind Dmg	
A cluster of severe thunderstorms formed near the Nebraska border from Marysville to St. Joseph, Missouri. The storms moved south through Topeka, Ottawa, Garnett and Ft. Scott. Large hail fell in many places and left a tremendous amount of damage to more than 100,000 acres of corn, soybeans and milo. Hundreds of homes from Mayetta through north Topeka lost most northside windows to hail, and some had nearly all the paint taken off as well. Roof damage was widespread throughout the storm's path.										
Worst of the damage was concentrated in southern Franklin County from Ottawa through Princeton and Richmond. The roof was torn from a school in Ottawa and a dozen airplanes were damaged at the airport there. Nearly every building in Princeton was damaged and one mobile home was destroyed. Ten people suffered injuries in Princeton, and four of them were treated at the Ottawa Hospital. Homes and trees were also damaged at Richmond. Crop										

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 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									
									damage in Franklin County alone was estimated at \$3.5 million.
									The northeast corner of Anderson County also caught the brunt of the storm. The roof was blown from a mobile home at Greeley, and outbuildings were torn apart at seven farms between Scripio and Bush City.
Miami Co Louisburg	20	0100CST			0	0	4	3	Hail (1.0) Inch diameter hailstones damaged automobiles, campers and roofs in Louisburg.
Marshall Co Herkimer	22	1830CST			0	0	4	0	Lightning Lightning set fire to a home just east of Herkimer. The fire was contained in the second floor and attic, but smoke and water damage was severe throughout the house.
Barton Co 15 Hoisington	25	1425CST			0	0	3	2	TSTM Wind Dmg Thunderstorm winds knocked down several power poles south of Hoisington.
									SPECIAL HAIL SUMMARY
									Kansas-Oklahoma Hail Loss Service reports indicate hail was especially damaging to crops in the listed counties on the following dates:
									03 Edwards
									17 Graham, Marshall, Washington
									19 Brown, Doniphan, Jackson, Marshall, Nemaha, Shawnee
15 KENTUCKY									
Webster County	03	1530 CST	-	-	0	0	4	0	Thunderstorm Winds Trees, large limbs, and power lines were blown down in Providence. A few trees were uprooted. Downed trees blocked a few roads. A 5,000 square foot office complex under construction was leveled. An awning was blown down at a bank office.
Henderson County	03	1550 CST	-	-	0	0	3	0	Thunderstorm Winds Large trees and power lines were blown down across eastern Henderson County along Highway 1078.
Daviess County	03	1630- 1710 CST	-	-	0	0	0	4	Hail (1.00) Hail, one inch in diameter, fell near Maceo and in a two mile wide path between West Louisville and St. Joseph. Twenty acres of tobacco were destroyed valued at \$1,000. per acre. Ten acres of soybeans were severely damaged.
Crittenden County	03	1645 CST	-	-	0	0	3	0	Thunderstorm Winds Numerous trees and power lines were blown across roads in Marion. Power lines were severed by falling trees.
Meade County	03	1815 CST	-	-	0	1	0	0	Lightning A 28 year old Flaherty man was changing the propeller on his boat when lightning struck the boat and injured him. Three fingers on his left hand, his left side, feet, head, and shoulders were affected. He could barely walk after the incident.
Hardin County	03	2000 EST	-	-	0	0	2	2	Thunderstorm Winds Thunderstorm winds damaged crops and blew shingles off of roofs in Eastview. Hail, of unknown size, damaged tobacco. A falling tree caused a telephone pole to fall in Radcliff.
KENTUCKY									
LaRue County	03	2017 EST	-	-	0	1	5	4	Thunderstorm Winds Winds, gusting to 95 MPH, did extremely severe damage in the small town of Hodgenville. The worst damage occurred between south Lincoln Boulevard and College Street. Numerous trees were blown down or uprooted. Trees and downed power lines blocked roads in nearly every major street in town. Several cars were crushed as trees fell on them. Several businesses and homes reported structural damage. 1 camper was destroyed. There were reports of small animals being dashed against buildings and killed. Carpools were blown away or brought down on the vehicles they were built to protect. Television antennas were twisted and blown down. Crops were destroyed.
Adair County	03	2048 EST	-	-	0	0	0	2	Hail (0.75) Hail, 3/4 inch in diameter, fell in Sparksville along with 55 MPH winds.
Adair County	03	2105 EST	-	-	0	0	1	0	Hail (0.75) Hail, 3/4 inch in diameter, fell in Knifley.
Pulaski County	03	2130- 2215 EST	-	-	0	0	3	0	Thunderstorm Winds Trees were blown down along Highways 27 and 70 in northern Pulaski County and along Clifty Road near Somerset. Trees damaged power lines interrupting electrical service throughout the county. One residence east of U S 27 off KY 1721 was heavily damaged when a tree fell across two bedrooms of a mobile home. Damage was assessed at \$4,000.
Casey County	03	2140 EST	-	-	0	0	2	0	Thunderstorm Winds Trees were blown down along Highway 70 near Liberty. Numerous power outages were reported.
McCracken County	09	1630 CST	-	-	0	2	0	0	Lightning Two men, and two women, ages unknown, were seated at a picnic table when lightning struck a hickory tree about three feet from a lean-to they had taken shelter in, from the thunderstorm. The lightning's current traveled through a window into the area where the picnic table was setting. The force of the bolt knocked all four people away from the table in different directions. One man struck his head in the incident and was burned on his arm. His right foot was numb for twenty minutes after the incident. One of the women was also burned on the arm. The other two adults were uninjured.
Adair County	09	1630- 1700 EST	-	-	0	0	5	0	Thunderstorm Winds/Lightning Dozens of trees blew down across county roads in Adair County. Small barns and sheds were overturned. Most of the damage occurred in the Glensfork, Garlin, and on King Wilson Road on KY 80 east of Columbia. Two houses reported their roofs blown off. Lightning struck two 210 barrel crude oil holding tanks in Melson Ridge, setting them afire.
Boyle County	09	1800- 1900 EST	-	-	0	0	4	0	Thunderstorm Winds Two miles west of Perryville on U S 68, an unoccupied mobile home was destroyed by wind. Two barns were damaged. 1 house was damaged. Several trees were blown down along with power lines.
Casey County	09	1830 EST	-	-	0	2	0	0	Lightning Two Liberty men, one 34, the other 40 years old, were picking peppers on a farm off KY 1649 in Liberty when lightning struck them both, injuring them seriously. The 34 year old man was taken to the hospital unconscious.
Casey County	09	1839 EST	-	-	0	0	3	0	Thunderstorm Winds Trees and power lines were blown down in Liberty. Some small barns were blown down. Roofs were ripped from two houses. Some vehicle damage was reported from falling trees and limbs.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1987

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					KILLED	INJURED	PROPERTY	CROPS	
KENTUCKY									
Pulaski County	09	1920 EST	-	-	0	0	3	0	Thunderstorm Winds
									Trees and large limbs blocked several roads from Burnside to Tateville. Power outages were widespread across the County.
Lincoln County	09	1930 EST	-	-	0	0	2	0	Thunderstorm Winds
									Trees were blown down across Lincoln County.
Rockcastle County	09	2006 EST	-	-	0	0	2	0	Thunderstorm Winds
									Trees were blown down blocking Highways 461 and 150.
Monroe County	09	2010 EST	-	-	0	0	0	0	Funnel Cloud
									A funnel cloud was sighted over Tompkinsville moving east.
Clinton County	09	2023 EST	Short	Narrow	0	0	1	0	Tornado (F0)
									A mini tornado very briefly touched down in a wooded area just to the south of Shipley. The tornado twisted the tops out of and uprooted several trees.
Clinton County	09	2200 EST	-	-	0	0	4	0	Lightning
									Lightning struck the cross atop the Trooper Island Boys Camp Chapel located on Dale Hollow Lake at the southwestern most portion of Clinton County. The A frame structure appeared relatively unscathed from the bolt which split the wooded cross on the northern end of the Chapel. Once inside the Chapel it was obvious that for at least a split second, the structure withstood tremendously high temperatures. Plastic windows on the south side of the chapel melted and ran down the inside walls of the building, and large chandeliers hanging from the top of the ceiling down to a height of about eight feet, melted and were hanging in skinny streamers to the floor. The 2 X 8 exposed ceiling rafters that joined at the pointed top of the building were burned and had taken on the appearance of charcoal with large chunks of the wood littering the floor of the Chapel. Plywood boxing between the rafters had burned away near the apex of the ceilings, allowing insulation to become exposed and fall to the floor partially melted. Glass in picture frames hanging on the wall was melted.
Pulaski County	17	0600-0800 EST	-	-	0	0	3	0	Flooding/ Lightning
									From 3 1/4 to 6 inches of rain was measured across Somerset flooding streets and knocking out telephone and electrical service. Basements throughout the city were flooded. Caney Fork Creek that runs through northern Somerset, went on a rampage and flooded across KY 1247.
									At 645 am EST, The Commonwealth-Journal building apparently took a direct lightning hit to its electrical system, knocking out its two main components of computerized typesetters and the video display terminals and telephones.
Washington County	17	early morning	-	-	0	1	0	0	Lightning
									A 73 year old man from Texas, Kentucky, was knocked out of his chair in his one story frame home after a lightning bolt struck a maple tree next to the house. The base of the maple tree set 25 feet from the house. The lightning current traveled through the roots of the tree into the home.
Adair County	17	0800-noon EST	-	-	0	0	3	0	Flooding
									Five inches of rain fell in Columbia resulting in extensive street flooding. Two families were evacuated in Columbia when their basement walls of their homes collapsed in rising waters. A service station and an auto parts store were also damaged from flood waters.
									Flooding along Russell Creek in Columbia continued into the late afternoon.
KENTUCKY									
Greenup County	22	1840 EST	-	-	0	0	5	0	Thunderstorm Winds
									Severe wind damage occurred at the Ashland/Boyd County Airport in Worthington. Five "T" shaped hangars were destroyed, one was damaged. The wind picked up the hangars and blew them 20 to 30 feet high in the air, then slammed them down 50 feet from their original foundation. Two light aircraft were damaged, one turned completely upside down. Concrete anchor blocks of the hangars were pulled completely out of the ground. The blocks were 24 inches long and 14 inches square. These blocks had been set flush with the ground. Two other large hangars were damaged nearby. When the hangars were pulled out of the ground, a natural gas line was ruptured.
									Approximately three blocks away from the airport, in a residential area, large limbs were blown down. Three trees fell across streets. Trees and power lines were blown down from Russell to Worthington, with a few power poles reportedly broken off.
Caldwell County	22	2000 CST	-	-	0	0	4	0	Thunderstorm Winds
									One outbuilding was picked up by strong winds during a thunderstorm and thrown on a car. An 80 foot long tobacco barn was leveled. A two car garage was smashed, extensively damaging a car inside the garage. All of the damage occurred in an area just east of the Mile Hill near Dawson Road.
Morgan County	22	2030 CST	-	-	0	0	3	0	Thunderstorm Winds
									Large trees were blown down and uprooted on the eastern outskirts of West Liberty. Severe power line damage was reported in the Crockett area.
Floyd, Magoffin, and Bell Counties	22	2045-2135 EST	-	-	0	0	4	0	Thunderstorm Winds
									Thunderstorm winds blew down trees and power lines in Floyd, Magoffin and Bell counties of southeast Kentucky. Only a few trees were blown down in Bell County. Numerous trees were down in Magoffin County, especially near Sayersville.
									Near Sayersville, in Magoffin County, large signs and traffic lights were blown down. Considerable damage was done to businesses along restaurant row of the Mountain Parkway, outside the Sayersville city limits. A mobile home was overturned and a barn was destroyed in Magoffin County along Highway 114 just outside Sayersville. A few other mobile homes were knocked from their foundations. There were numerous reports of roof damage.
Rowan County	27	1518 EST	-	-	0	0	4	0	Thunderstorm Winds
									Trees were blown down in Morehead, blocking major roads. At Morehead State University, twenty five trees were reportedly blown down on the campus. Three campus vehicles were damaged by falling trees.
Rowan County	27	1530 EST	-	-	0	1	3	0	Lightning
									A 48 year old Utah man was traveling west on Interstate 64 near Morehead on a motorcycle when lightning struck the roadway near him. The cyclist lost control of the motorcycle. The bike struck the guardrail and traveled 25 feet from the point of impact, throwing the driver 20 feet in the opposite direction. The cyclist was seriously injured and the motorcycle was a total loss.
Garrard County	27	1630 EST	-	-	0	0	3	0	Thunderstorm Winds
									Several trees were blown over or uprooted near Lancaster, along Crab Orchard and Industry Road. Bee hives were blown over and scattered across a nearby creek. Minor structure damage was reported to homes and garages.
Taylor County	27	1645 EST	-	-	0	0	3	0	Thunderstorm Winds
									75 MPH winds blew down numerous trees and power lines in and around Campbellsville. Downed trees blocked many streets.
									A lightning incident attributed indirectly to the death of a 74 year old Campbellsville man. Lightning struck the man's house setting it on fire. It frightened the man so severely, he had a heart attack and died. The man suffered from a previous ailing heart condition.

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					KILLED	INJURED	PROPERTY	CROPS	
KENTUCKY									
Casey County	27	1700 EST	-	-	0	0	2	0	Lightning
									Lightning charges ran inside a Liberty home damaging a brick floor on which sat a wood burning stove. A hole was left in the floor after pieces of brick were sent flying across the room.
Madison County	27	1700 EST	-	-	0	0	3	0	Thunderstorm Winds
									Trees and power lines were blown down in Peytontown. There were also reports of fences blown down.
Nicholas County	27	1705 EST	-	-	0	0	3	0	Thunderstorm Winds
									Power lines and trees were blown down in Carlisle. Large signs and a few homes and businesses were damaged.
Mercer County	27	1730 EST	-	-	0	0	3	0	Thunderstorm Winds
									Trees and power lines were blown down east of Burgin. Lightning ignited a barn fire near Harrodsburg which resulted in a total loss.
Fleming County	27	1730 EST	-	-	0	0	3	4	Thunderstorm Winds/Hail
									Trees, power lines, television antennas, and towers were blown down in Mt. Carmel. Pieces of buildings were torn from store fronts. A few windows and screens were blown out. Roofs and barns were damaged.
									Hail, of unknown size, damaged the tobacco and corn crops along Cherry Grove Road.
Boyle County	27	1735 EST	-	-	0	0	3	0	Lightning
									Lightning strikes resulted in a few fires. Two major fires were set by lightning in Junction City and along Pope Road.
Estill County	27	1745-1800 EST	-	-	0	0	3	0	Thunderstorm Winds
									Irvine police reported trees blocking county road 1209 12 miles east of Irvine. A barn roof was blown off at Crooked Creek. Two barns and a house trailer were damaged at Ledgerville.
Leslie County	27	1812 EST	-	-	0	0	2	0	Thunderstorm Winds
									Downed trees and power lines blocked roads near Smilax.
Lee County	27	1825 EST	1/4	200	0	0	4	0	Tornado (F1)
									A small tornado struck the community of Filmore in western Lee County causing extensive damage to a small area. A small barn was destroyed, roofs were removed from 2 barns, a 2 story barn was moved off of its foundation, siding was removed from a house, a satellite dish was carried 100 yards from its original site and numerous trees were uprooted and twisted off at the top. Downed trees blocked parts of Highway 708 and Highway 399 in Lee County.
Jefferson County	27	1836 EST	-	-	0	0	1	0	Thunderstorm Winds
									58 MPH wind gusts were recorded at Bowman Air Field in Louisville.
Morgan County	27	1910 EST	-	-	1	2	0	0	Lightning
									Lightning struck a barn at Grassy Creek in which three men were housing tobacco. The men were standing in the hallway of the barn when the lightning struck. A 29 year old man was killed, and two other men injured seriously.
Harlan County	27	1930 EST	-	-	0	0	2	0	Thunderstorm Winds
									Thunderstorm winds downed trees across parts of Pine Mountain and Ages roads in Harlan County.
16 LOUISIANA									
St. Tammany Parish	02	1930CST	-	-	0	0	0	?	SVR TSTM-Wind
									State Police Troop L reported a severe thunderstorm blew down several large tree limbs on LA Highway 25 just northwest of Covington.
Ascension Parish	04	1500CST	-	-	0	1	0	0	TSTM-Lightning
									A Gonzales man was hospitalized in good condition after being struck by lightning.
Madison Parish	04	1635CST	-	-	0	0	0	?	SVR TSTM-Wind(50)
Tensas Parish	04	1640CST	-	-	0	0	0	?	SVR TSTM-Wind(50)
									Severe thunderstorms blew down numerous trees near Indian Lake (8 miles east of Longview in Madison Parish) and north of Newlight (Tensas Parish).
Desoto Parish	05	1805CST	-	-	0	0	0	?	SVR TSTM-Wind
									Straight line winds blew down a few trees near Frierson.
Terrebonne Parish	06	1310CST	-	-	0	0	0	0	Funnel
									A funnel was spotted five miles north of Houma.
Plaquemines Parish	09	1515CST	-	-	0	0	0	0	Funnel
									A funnel was observed near Belle Chasse.
East Baton Rouge, Livingston, Tangipahoa and St. Tammany Parishes	12	0230CST-0830CST	-	-	0	0	?	?	Remnants of a Tropical Depression-Heavy Rain
St. Tammany Parish	12	0350CST	-	-	0	0	0	?	SVR TSTM-Wind
St. Tammany Parish	12	0355CST	-	-	0	0	?	?	SVR TSTM-Wind(50)
St. Tammany Parish	12	0459CST	-	-	0	0	?	?	SVR TSTM-Wind(50)
									4 to 8 inches of rain fell from 0230CST-0830CST along and north of a line from Baton Rouge to Slidell in southeast Louisiana. Widespread street flooding was reported in Baton Rouge, Hammond, Mandeville, Covington and Slidell.
									Fortunately, only a few homes were flooded in Baton Rouge (East Baton Rouge Parish) and in French Settlement in neighboring Livingston Parish. About a foot of water inundated some apartments in Tangipahoa and a elementary school in Hammond (Tangipahoa Parish).
									St. Tammany Emergency Management officials said about a dozen homes and a shopping center were flooded by heavy rain in Mandeville. In addition, some of the thunderstorms produced straight line wind damage. State police reported large trees were blown down on LA Highway 25 northwest of Covington and on LA Highway 36 just to the east of Covington about 0350CST. By 0355CST a 50 knot gust was observed by state police in Folsom. Finally, blinding rain and 50 knot winds forced police to close the Causeway bridge to traffic across Lake Pontchartrain at 0459CST.
West Carroll Parish	18	1532CST	-	-	0	0	0	?	SVR TSTM-Wind
									A severe thunderstorm blew down numerous trees near Terry.
Acadia Parish	28	1905CST	-	-	0	0	0	0	Funnel
									The Acadia Parish sheriff reported a funnel seven miles northeast of Crowley.
Cameron Parish	30	1624CST	-	-	0	0	0	0	Funnel
									The Cameron Parish sheriff department reported a funnel southeast of Cameron.
Plaquemines Parish	30		-	-	1	0	0	0	Lightning
									Lightning struck a man standing on a pier near Buras. The man subsequently died on Sep 2, 1987 of injuries from the lightning strike. M330
17 MAINE									
Cumberland Co. Gray	08	1420EDT	-	-	0	0	2	0	Hail (1.0)
									A severe thunderstorm produced 3/4 inch hail at Panther Pond in No. Raymond and moved into Gray, where one inch hail fell at Little Sebago Lake and a large tree was knocked down by wind at State Game Farm.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1987

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					KILLED	INJURED	PROPERTY	CROPS	
MAINE									
York Co.									
Parsonfield	19	1942EDT			0	0	3	0	TWIND
Lebanon, Berwick	19	1942EDT			0	0	4	0	TWIND
Kittery	19	1943EDT			0	0	3	0	TWIND
Sanford, Waterboro	19	1955EDT			0	0	4	0	TWIND
Buxton	19	2000EDT			0	0	3	0	TWIND
Old Orchard Beach	19	2015EDT			0	0	4	0	TWIND
Cumberland Co.									
Harrison	19	1945EDT			0	0	3	0	TWIND
No. Raymond	19	2000EDT			0	0	3	0	TWIND
Gorham	19	2005EDT			0	0	3	0	TWIND
So. Gray	19	2010EDT			0	0	3	0	TWIND
2SE Portland	19	2020EDT			0	0	3	0	TWIND
Scarborough	19	2023EDT			0	0	3	0	TWIND
Harpwell	19	2028EDT			0	0	3	0	TWIND
<p>A line of severe thunderstorms swept across York and Cumberland Counties. Trees and power lines were taken down in many locations. In addition to the ones listed; Westbrook, the North Deering of Portland, and several locations throughout Scarborough and Cape Elizabeth had power outages due to downed trees and power lines.</p>									
18 MARYLAND and D.C.									
Anne Arundel Co	5	1430EST			0	1	0	0	Lightning
<p>A 24 year old U.S. Coast Guard Seaman was struck and injured by lightning at Thomas Point Lighthouse as he put a key into a truck doorlock.</p>									
Montgomery Co	9	1645EST			0	0	3	0	Thunderstorm
Anne Arundel Co		1730EST			0	0	2	0	Wind G53
<p>Thunderstorm winds in Gaithersburg lasted through 1730EST. Gusts estimated near 53 knots knocked over many power lines and trees. In Anne Arundel County strong winds uprooted a 60 foot tree, and split and sheared two other large trees.</p>									
MD2001	16	1115EST			2	0	0	0	Rough Surf
Eastern MD	<p>Nearly continuous onshore flow since August 10 resulted in unusually rough surf. Two people died while swimming in the rough water at Ocean City. M170 ????</p>								
19 MASSACHUSETTS									
Barnstable county,	24	1400EST			0	0	3	0	Dust devil
West Yarmouth	<p>An unusually strong whirlwind during fair weather or dust devil did several thousand dollars damage to a building near the Parker River where it crosses Route 28. The roof of the building was damaged and electrical wires blown down. The roof of an old fishing boat was blown off and glass and wood littered the parking lot. No one was injured. It was just ten years to the date that a small tornado ripped through the same area.</p>								
20 MICHIGAN									
MIC013-	01	2100EST			0	1	5		Flash Flood
L'Anse, Baraga Co.	<p>A boy was washed through a culvert and injured. Roads were washed out. Substantial damage was done to several buildings, including the high school.</p>								
MIC147-	02	1445EST			0	0	0		Funnel Cloud
Port Huron, St. Clair Co.	<p>The funnel was reported by police over Lakeside Beach.</p>								
MIC019-	03	afternoon			0	1	2		Twind (6B)
Frankfort, Benzie Co.	<p>Several boats were dashed onto rocks, injuring one woman.</p>								
MICHIGAN									
MIC055-	09	1200EST			0	1	1		Lightning
Pike Lake, Grand Traverse Co.	<p>An innate at Camp Pugsley suffered a seizure when lightning struck nearby.</p>								
MIC099-	09	1500EST			0	1	5		Twind
Warren, Macomb Co.	<p>A woman was injured when a sign fell on her car. A sports dome collapsed. There was widespread minor kinds damage.</p>								
MIC125-	09	1538EST			0	0	0		Funnel Cloud
Southfield, Galleda Co.									
MIC163-	09	1604EST			0	0	0		Funnel Cloud
Downtown Detroit, Wayne Co.									
MIC021-	16	2324EST			0	0	4		Twind
Berrien Co.	<p>Widespread wind damage was concentrated in Berrien and northern Niles townships.</p>								
Sanis, Marquette Co.	18	1600EST	0.1	20	0	0	2		Tornado (F0)
<p>An eyewitness on Old County Road 553 saw an oddily-colored V-shaped cloud touch down for approximately 150 yards. A trailer and a storage building were demolished. Windows were blown out of a mobile home. "Rain followed by dark clouds and a howling noise preceded the tornado."</p>									
Conway, Emmet Co.	18	1900EST	0.0	30	0	0	4		Tornado (F0)
<p>The tornado touched down at the east end of Conway and moved along the shore of Crooked Lake. Trees were twisted off. Rows of corn just outside the narrow path were undisturbed. Several cottages were damaged and a pontoon boat flipped.</p>									
MIC001-117-097-181-045-125-	21	2310EST			0	0	0		Hail (0.80)
2 W Sparta, Kent Co.	21	2320EST			0	0	1		Twind
Near Sidney, Montcalm Co.	22	0005EST			0	0	0		Hail (0.75)
Grand Rapids Airport	22	0008EST			0	0	2		Twind
Rochford, Kent Co.	22	0116EST			0	0	2		Twind
S S Fowlerville, Livingston Co.	22	0125EST			0	0	0		Funnel Cloud
Whitmore Lake, Washtenaw Co.	22	0138EST			1	0	3		Lightning
Flushing, Genesee Co.	22	0150EST			0	0	4		Lightning
Pontiac, Oakland Co.	<p>A car was spun around by the wind at Sidney. Large trees were down at Rochford. An unoccupied mobile home was flipped near Fowlerville. At Flushing a house was set afire and a man sleeping inside died. A school was seriously damaged at Pontiac. There was widespread minor wind damage in the area bounded by Muskegon, Port Huron, and Monroe. M30H</p>								
21 MINNESOTA									
Itasca Co.	01	0415CST			0	0	0	0	Thunderstorm Wind
4SE Max	<p>Four acres of trees were damaged or knocked down.</p>								
Ottertail Co.	02	1958CST			0	0	0	?	Hail
Elizabeth	02	2000CST			0	0	3	0	Thunderstorm Wind
Fergus Falls	02	2006CST			0	0	4	0	Lightning
SN Fergus Falls									
Todd Co.	02	2215CST			0	0	0	0	Thunderstorm Wind
Eagle Bend	02	2200CST			0	0	0	0	Thunderstorm Wind
2NW Clarissa	02	2224CST			0	0	3	?	Thunderstorm Wind, Hail
Browerville									
Crow Wing Co.	02	2230CST			0	0	0	0	Funnel
8W Brainerd	02	2230CST			0	0	0	0	Funnel
8S Brainerd	02	2235CST			0	0	4	0	Lightning
Crosby	<p>Hail almost as large as golf balls damaged crops in the Elizabeth area. Hail broke windows in Browerville and damaged crops east of Browerville. Lightning shattered three power poles five miles north of Fergus Falls. A barn just north of Crosby was destroyed after being hit by lightning. Wind downed trees that resulted in property damage at several locations across Ottertail and Todd Counties.</p>								

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 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	

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MINNESOTA

St. Louis Co. Tower	03	0130CST			0	0	4	0	Thunderstorm Wind
<p>A boathouse was wrecked at Pike Bay at Lake Vermilion. Trees were uprooted or broken off. Campgrounds and a few cabins near Tower were damaged by falling trees. Two hangars were reduced to rubble at the Tower Municipal Airport. One plane was overturned and crumpled. Two other planes received minor damage.</p>									
Martin Co. Fairmont	03	0700CST			0	0	5	0	Flash Flood
<p>Rain fell at the rate of 4.26 inches in 90 minutes. The heavy rain flooded basements, street intersections and immersed cars in a parking lot up to their door handles. Forty residents of a nursing home were evacuated when water began running through the building.</p>									
Goodhue Co. Wanamingo	03	0945CST			0	0	0	0	Funnel
Houston Co. Caledonia	03	1109CST			0	0	0	0	Funnel
Cass Co. Cass Lake	15	1312CST			0	0	3	0	Thunderstorm Wind, Hail
Lake Winnibigoshish	15	1425CST			0	0	0	0	Thunderstorm Wind
<p>Golfball size hail fell in Cass Lake. Winds downed trees in Cass Lake and near Winnibigoshish. A car was damaged by a falling tree in Cass Lake.</p>									
Ottertail Co. Vergas 6W Dent	15	1615CST			0	0	0	0	Hail (1.0)
	15	1625CST			0	0	0	0	Hail (1.75)
Hubbard Co. 3S Park Rapids	15	1700CST			0	0	0	0	Funnel
Becker Co. Detroit Lakes	15	1709CST			0	0	0	0	Funnels
<p>Two funnels were sited just southeast of Detroit Lakes.</p>									
Ottertail Co. Dalton	15	1758-1803CST	0.5	20	0	0	0	0	Tornado (F0)
20 SE Fergus Falls	15	1823-1840CST	1	50	1	8	6	0	Waterspout-Tornado (F2)
<p>A tornado was sighted near Dalton and again one-half mile east of Dalton. This tornado resulted in no significant damage. A waterspout was next observed crossing Eagle Lake 20 miles southeast of Fergus Falls. This waterspout hit land along the north shore of Eagle Lake and left a half-mile stretch of destruction along the shoreline. Nine cabins received major structural damage, several of which were leveled to the foundation. One man was killed from falling debris after his lake home was lifted and dumped 15 feet away. Eight others were hospitalized with severe injuries. M47P</p>									
Itasca Co. Deer River	15	1830CST			0	0	0	0	Thunderstorm Wind (52)
<p>Winds of 60 miles per hour downed trees near Deer River.</p>									
Ottertail Co. Parkers Prairie	15	1845CST			0	0	5	0	Thunderstorm Wind
<p>Five farm sites were damaged around Parkers Prairie. Several barns and a number of outbuildings were blown down. At one farm site a silo was destroyed and a pickup truck was blown 60 feet. In Parkers Prairie a mobile home was tipped over, the scoreboard at a football field was ripped down and the concrete block wall of a softball dugout was blown over.</p>									

MINNESOTA

Douglas Co. Rose City	15	1850CST			0	0	4	0	Thunderstorm Wind
Wadena Co. Wadena	15	1850CST			0	0	0	0	Thunderstorm Wind (59)
Todd Co. 1W Browerville	15	1904CST			0	0	0	0	Funnel
Eagle Bend	15	1915CST			0	0	3	0	Thunderstorm Wind (52)
Stearns Co. Brooten	15	1925CST			0	0	0	0	Thunderstorm Wind (52)
<p>Winds destroyed a barn in Rose City. Gusts of 68 miles per hour were reported from Wadena and 60 mile per hour winds were reported from Eagle Bend and Brooten.</p>									
Itasca Co. 10NW Grand Rapids	15	2000CST			0	0	0	0	Thunderstorm Wind
<p>Trees were downed northwest of Grand Rapids.</p>									
Kandiyohi Co. New London and Spicer	15	2014CST			0	0	3	0	Thunderstorm Wind
Morrison Co. Pierz	15	2015CST			0	0	3	0	Thunderstorm Wind
<p>Trees and power lines were knocked down in the New London and Spicer area and also in Pierz.</p>									
Waseca Co. Waseca	15	2325CST			0	0	3	0	Thunderstorm Wind (74)
Olmsted Co. Rochester	16	0023CST			0	0	4	0	Thunderstorm Wind (56)
<p>Winds knocked down large tree limbs around Waseca and caused power outages with gusts up to 85 miles per hour. A wind of 64 miles per hour flipped a single engine plane at the Rochester airport.</p>									
Clay Co. Dilworth	17	1840CST			0	0	0	0	Funnel
Ottertail Co. Pelican Rapids	17	1928CST			0	0	0	0	Hail (0.75)
Waseca Co. Waseca	21	0103CST			0	0	0	0	Hail (1.0)
Steele Co.	21	0125CST			0	0	0	?	Hail (1.75)
<p>Golfball size hail was reported between Hope and Ellendale.</p>									
Ottertail Co. Parkers Prairie	21	1245CST			0	0	0	?	Hail (0.75)
Todd Co. 25W Eagle Bend	21	1302CST			0	0	0	?	Hail (0.75)
Clarissa	21	1308CST			0	0	0	?	Hail (0.75)
Morrison Co. 3N Little Falls	21	1400CST			0	0	0	0	Hail (1.0)
Lac Qui Parle Co. Boyd	21	1445CST			0	0	0	?	Hail (2.75)
Yellow Medicine Co. Clarkfield	21	1458CST			0	0	3	?	Hail (0.75)
<p>Baseball size hail fell between Marquette and Haydenville in western Lac Qui Parle County. Hail 3/4 inch along with some crop damage was also reported in Lac Qui Parle County near Boyd. Hail broke windows, damaged cars and caused minor property damage to homes around Clarkfield in Yellow Medicine County.</p>									
Freeborn and Mower Counties	28	1044CST			0	0	0	0	Funnel
<p>A funnel was observed along the Freeborn and Mower county line west of Austin.</p>									
Marshall Co. 20NE Thief River Falls	29	1807CST			0	0	0	0	Funnel
Clay Co. Glyndon	29	1855CST			0	0	4	0	Thunderstorm Wind
Becker Co. Lake Park	29	1920CST			0	0	0	0	Funnel
<p>Strong winds damaged roofs around Glyndon.</p>									
Isanti Co. 8NW Cambridge	29	1940CST			0	0	0	0	Hail (1.75)
Anoka Co. 7N Anoka	29	1940CST			0	0	0	0	Hail (0.75)

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					KILLED	INJURED	PROPERTY	CROPS	

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MINNESOTA

Chisago Co. Wyoming	29	2010CST			0	0	0	0	Hail (1.5)
Chippewa Co. Clara City	29	2020CST			0	0	4	?	Thunderstorm Wind, Hail (1.75)
Golfball size hail damaged cars and crops around Clara City. Winds also downed several trees.									
St. Louis Co. Lake Vermilion	29	2115CST			0	0	4	0	Thunderstorm Wind
Crow Wing Co. IN Crosby	29	2140CST			0	0	0	0	Hail (0.75)
St. Louis Co. 40 N Hibbing	29	2157CST			0	0	0	0	Thunderstorm Wind
Linden Grove	29	2159CST			0	0	0	0	Thunderstorm Wind
10S Floodwood	29	2300CST			0	0	0	0	Hail (0.75)
Strong thunderstorm winds roared across the Lake Vermilion area snapping off large trees, one of which crushed the roof of a mobile home. Winds downed trees 40 miles north of Hibbing along Highway 73 to the south of Highway 1 and also near Linden Grove.									
Sherburne Co. Zimmerman	20	2150CST			0	0	0	0	Hail (0.75)

MISSISSIPPI

Tate County, Coldwater	01	1330CST			0	0	5	0	Thunderstorm Winds
Strong winds damaged roofs and blew down several large trees.									
Madison County, Ridgeland	02	1315CST			0	1	0	0	Lightning
A motorist was struck and injured by lightning while riding down a street in Ridgeland. The motorist was taken to a local hospital and later released with minor injuries.									
Madison County, Ridgeland	02	1320CST			0	1	0	0	Lightning
A woman talking on a telephone during a thunderstorm was injured. Lightning struck the telephone line outside, traveled down the line into the house and the receiver. She survived with minor injuries.									
Hinds County, Jackson	02	1345CST			1	2	0	0	Lightning
During a ball game, lightning struck a transformer, then struck 3 people on the field. One of the players was severely burned and remained unconscious for 24 hours before she died. A coach and one other player survived with only minor injuries. At the time of the lightning strike, a storm was off in the distant east. It is not known if the lightning bolt came from this storm or was the first stroke in a developing storm. F250									
Rankin County, Richland	03	1535CST			0	0	5	0	Thunderstorm Winds (670)
Winds estimated near 80 mph damaged 6 roofs, numerous outbuildings and downed several large trees.									
Hinds County, Jackson	03	1545CST			0	1	0	0	Lightning
A man was working on a roof when he was struck and injured by lightning. He was hospitalized and released 4 days later. Other men also working on the roof were uninjured.									
Hinds County, Jackson	03	1555CST			0	0	5	0	Thunderstorm Winds
Strong winds blew half of a roof off a mobile classroom at a school. One house was damaged from a fallen tree. About 30 trees were blown down just north of the downtown area.									
Panola County, Batesville	04	1600CST			0	0	5	0	Thunderstorm Winds
Strong winds blew a trailer off its foundation blocks. A roof was torn off a storage shed. Numerous trees and power lines in the same area were also blown down.									
Monroe County, Aberdeen	04	1653CST			0	0	5	0	Lightning, Thunderstorm Winds
Lightning struck a pine tree, traveled into a home and knocked a 2 foot diameter hole in the wall. The bolt traveled into the attic, hit a pipe and exploded. It sounded like a cannon ball. Two-thirds of the attic were burned. Several other homes in the area had damage from lightning.									
Also, high winds blew a steeple off a church and downed power lines and poles. A globe in front of a funeral home was destroyed. Some roofs were damaged by fallen trees.									

MISSISSIPPI

Panola County, Batesville	04	1700CST			0	0	5	0	Thunderstorm Winds
Another storm hit the Batesville area with strong winds. A 4x8 ft. plate glass window was blown out with numerous trees and power lines blown down in the area.									
Pike County, 2N McComb	05	1400CST			0	0	4	0	Thunderstorm Winds
Several trees were blown down at a construction site just north of McComb.									
Hinds County, Jackson	05	1655CST			0	0	5	0	Flash Flood
Very heavy rains of 2 to 4 inches in 1 hour caused extensive flooding in parts of North Jackson. One rain gauge in Northeast Jackson recorded 4.35 inches of rain. Water on some roads were up to car doors and waist deep. Some homes received some water damage.									
Forrest County, Hattiesburg	06	1015CST			0	0	5	0	Flash Flood
Heavy rains of 4 to 6 inches caused flooding of streets and some residences in Hattiesburg.									
Alcorn County, Biggersville	10	1330CST			0	0	5	0	Lightning
Lightning destroyed a home in Biggersville. Also, 5 beef cows and one dairy cow, under a tree, were struck and killed by lightning. The livestock were valued at \$15,000.									
THE REMAINS OF A TROPICAL DEPRESSION CAUSED THE FOLLOWING 6 FLOOD EVENTS:									
Marion County, Columbia	13	0230CST- 1030CST			0	0	6	0	Flash Flood
Heavy thunderstorms developed in the Columbia area around 0000CST and persisted until 0800CST. During this period 12.2 inches of rain fell in the Columbia area. Ten to 15 inches of rain fell across most of the county. Damage estimates were at slightly more than 3 million dollars. In Marion County, 177 residences and 65 businesses had water damage. Damage to bridges, streets and public buildings were estimated at 176,000 dollars.									
Lawrence County, Oak Vale	13	0500CST			0	0	5	0	Flash Flood
About 6 to 10 inches of rain caused flooding in Southeast Lawrence County. Three homes suffered major water damage.									
Jackson County	14	0900CST- 2800CST			0	0	6	0	Flash Flood
From 0300CST - 1500CST, 8 to 15 inches of rain fell through most of Jackson County. Total damage estimated at 1.2 million. Damage to mobile homes, homes, businesses were 666,000 dollars. Damage to road and bridges was 463,000 dollars.									
Stone County	14	1100CST- 1500CST			0	0	5	0	Flash Flood
Rainfall of 6 to 12 inches caused flooding throughout the county. Damage to public property in this mostly rural county was 55,000 dollars.									
Harrison County	14	1100CST- 15 1600CST			0	0	6	0	Flash Flood, Flood
Rainfall amounts of 6 to 10 inches caused extensive flooding through most of Harrison County. Three hundred residents were forced to evacuate. Flooding of the Tchoutacabouffa and Biloxi rivers complicated the flooding. Damage estimates to private property at 213,000 dollars.									
Marion County, Columbia	14	1525CST			0	0	4	0	Flash Flood
Heavy rains caused extensive flooding in Columbia. Many cars were left stranded.									
Itawamba County, Fulton	17	1700CST			0	0	4	0	Thunderstorm Winds
Trees and power lines were blown down in Fulton.									
Marshall County, Holly Springs	18	1200CST			0	0	5	0	Thunderstorm Winds
Strong winds blew down trees and caused extensive damage to electrical lines and poles.									
Lauderdale County, Meridian	18	1715CST			0	0	4	0	Thunderstorm Winds
Strong winds blew the roof off of a lumber shed in West Meridian.									
Lauderdale County, Meridian	18	1715CST- 1745CST			0	0	5	0	Thunderstorm Winds
Numerous trees and power lines were blown down in Meridian.									
Lauderdale County, Meridian	18	1745CST			0	0	4	0	Thunderstorm Winds
Trees were blown down on Highway 493 North near the Meridian City Limits.									

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					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS	
MISSISSIPPI																			
Lee County, Saltillo	23	1600CST			0	0	5	0	Thunderstorm Winds	Buchanan Platte (St Joseph to Dearborn)	19	1510-30			0	0	3	6	HAIL
									Two metal buildings, 180 ft x 50 ft and 300 ft x 50 ft, on Highway 45 near Saltillo were destroyed by strong winds. The estimate of damage was 150,000 dollars.										Hail to 1 3/4 inch diameter fell from the south portion of St Joseph to near Dearborn. Extensive crop damage was reported. Some farms received 100 percent damage to crops.
Leake County, 2NW Thomastown	24	1945CST			0	0	4	0	Thunderstorm Winds	Platte (Edgerton)	19	1530			0	0	4	3	TSTM WND HAIL
									Power lines were blown down 2NW of Thomastown.										Hail 1 1/2 to 1 3/4 inch diameter and strong winds combined to blow out windows at Edgerton. Trees were downed in Edgerton and Camden Point.
Alcorn County, Corinth	27	1215CST			0	0	5	0	Lightning, Thunderstorm Winds	Clay (Kearney)	19	1600			0	0	3	0	HAIL
									Numerous trees and power lines were blown down in Corinth. Intense and frequent lightning caused widespread power outages throughout the county.										Large hail knocked out windows.
Forrest County, Camp Shelby	28	1600CST			0	0	5	0	Lightning	Clay (Liberty)	19	1607			0	0	3	0	TSTM WND
									A house near the North Gate of Camp Shelby was struck by lightning. The house was then destroyed by a resulting fire.										Trees downed by winds exceeding 60 mph.
Lauderdale County, SE Meridian	28	1835CST			0	0	5	0	Hail (2.00)	Jackson (Buchner and Sibley)	19	1615			0	0	4	0	TSTM WND
									Hail slightly larger than golf balls fell in Southeast Meridian.										Trees and power lines down from Sibley to Buchner.
23 MISSOURI																			
...All times CST...																			
Franklin (St. Clair)	3	1900			0	0	4	0	TSTM WND	Ray (Orrick)	19	1630			0	0	4	0	TSTM WND
									Power lines, trees and road signs downed. Damage to a fireworks building.										Power lines down and mail boxes blown away.
Boone (Columbia)	8	1752			0	0	0	0	TSTM WND	Johnson (Edgerton)	19	1726			0	0	0	0	TSTM WND
									Wind gust to 62 mph at the Columbia Regional Airport.										Winds to 60 mph.
Benton (Cole Camp)	16	1620			0	0	0	0	HAIL	Lafayette (Aullville)	19	1700			0	0	0	0	HAIL
									Hail to 3/4 inch diameter.										Hail to 1 inch diameter.
Morgan (Versailles)	16	1650			0	0	0	0	TSTM WND	Pettis (Sedalia)	19	1752			0	0	?	?	TSTM WND HAIL
									Wind to 60 mph near Versailles.										Hail to 1 3/4 inch diameter and winds to 60 mph reported at Sedalia.
Morgan (Versailles)	16	1715			0	0	4	0	TSTM WND/HAIL	Vernon	19	1900			0	0	?	?	TSTM WND
									Hail to 3/4 inch diameter. Large trees uprooted and 2 airplanes overturned in Versailles.										Winds 50 to 70 mph reported on the Missouri Kansas border just east of Fort Scott, Kansas.
Boone (McBaine and Huntsdale)	16	1730			0	0	4	0	TSTM WND	Cedar (Eldorado Springs)	19	1905			0	0	0	0	TSTM WND
									Large trees down. Power lines downed by winds to 80 mph at McBaine and Huntsdale.										Winds 50 to 55 mph.
Miller (Eldon)	16	1740			0	0	4	0	TSTM WND	Cedar (Stockton)	19	1935			0	0	0	0	TSTM WND
									Roof blown off house and large trees downed at Eldon. Winds of 60 mph.										Winds 50 to 55 mph.
Camden (Climax Springs)	16	1745			0	0	4	0	TSTM WND	Barton (Golden City)	19	1957			0	0	3	0	TSTM WND
									Three houses damaged south of Climax Springs. Tree fell on one house.										Trees and power lines downed by 60 mph wind.
Camden (Coffman Bend)	16	1802			0	4	2	0	TSTM WND	Dade Cedar	19	2000			0	0	3	0	TSTM WND
									Four people injured when their boat was destroyed at Coffman Bend. Injuries were minor.										Power lines and trees down.
Boone (Prathersville)	16	1815			0	0	2	0	TSTM WND	Greene (Ash Grove)	19	2010			0	0	?	?	TSTM WND
									Roof torn off trailer with family inside.										Winds to 65 mph.
Camden (Horseshoe Bend)	16	1845			0	0	4	0	TSTM WND	Polk (Eudora)	19	2010			0	0	4	0	TSTM WND
									Trees down and house damaged.										Wind damage to fire station.
Atchison (PHELPS City)	19	1325			0	0	0	0	HAIL	Greene	19	2010			0	0	2	0	TSTM WND
									Hail to 1 3/4 inch diameter.										Tree fell on ambulance making emergency run on Highway V.
Atchison (Langdon) Holt (Corning)	19	1335			0	0	?	?	HAIL	Jasper (near Joplin)	19	2025			0	0	?	?	TSTM WND
									Hail to 1 3/4 inch diameter at Langdon and south to Corning in Northwest Holt County.										Winds to 65 mph reported just northwest of Joplin.
Nodaway (15 nw Maryville)	19	1400			0	0	0	0	HAIL	Barry (Monett)	19	2055			0	0	0	0	TSTM WND
									Hail to 1 3/4 inch diameter.										Wind to 59 mph.
Holt (Craig to Bigelow to Fortescue)	19	1410			0	0	4	0	TSTM WND HAIL	Stone (Blue Eye)	19	2120			0	0	0	0	TSTM WND
									Hail to 1 3/4 inch diameter and winds downed trees from Craig to Bigelow to Fortescue.										Wind to 60 mph.
Andrew (Savannah)	19	1450			0	0	?	?	TSTM WND HAIL	Adair (2 n. Kirksville)	20	1820			0	0	?	?	TSTM WND
									Hail to 3/4 inch diameter and winds to 50 mph and greater in Savannah.										Winds to 70 mph reported by KTVQ TV.
Platte (Dearborn)	19	1530			0	0	3	0	TSTM WND	Adair (Kirksville)	20	1830			0	0	?	?	TSTM WND
									Roof off high school.										Wind gusts to 60 knots reported at the airport.
										Adair (Kirksville)	20	1833			0	0	0	0	HAIL
																			Hail to 1 3/4 inch diameter reported at KIRK Radio in Kirksville.
										Knox (Knox City)	20	1835			0	0	0	0	HAIL
																			Hail to 1 inch diameter.
										Lewis (La Belle)	20	1845			0	0	4	4	HAIL
																			Windows blown out of house and up to 8 inches of hail on the ground.
										Shelby (Emden)	20	1905			0	0	4	0	TSTM WND
																			Trees and power lines downed.
										Marion (Palmyra)	20	1920			0	0	4	0	TSTM WND
																			Tree and power line damage. Wind estimated near 65 mph.
										Shelby	20	1930			0	0	5	0	TSTM WND
																			A severe thunderstorm produced the following damage. House collapsed 1 1/2 miles north of Lakeman (under construction). Trailer home overturned and roof off house in Bethel. Damage to school in Clarence. Trees and power lines down across County.

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					KILLED	INJURED	PROPERTY	CROPS	
MISSOURI									
Monroe (Paris)	20	1930-2000		0	0	4	0		TSTM WND
Roof blown off garage adjacent to Deputy Sheriff's home. Damage to the roof and to power lines and trees in Paris and across the county. Wind estimated at 70 mph in Paris.									
Pike (Bowling Green)	20	2040		0	0	?	?		TSTM WND
Wind gusts to 60 mph 10 mph north of Bowling Green.									
Pike (Bowling Green)	20	2057		0	0	4	0		TSTM WND
Power lines and trees down.									
Pike (Bowling Green)	20	2100		0	0	?	?		TSTM WND
Wind gusts to 60 mph or greater, 10 miles south of Bowling Green.									
Lincoln (15 n. Troy)	20	2110		0	0	3	0		TSTM WND
Winds in excess of 60 mph downed trees.									
Lincoln (Troy and Elsberry)	20	2120		0	0	?	?		TSTM WND
High winds									
St. Louis	20	2215		0	0	2	0		TSTM WND
Minor tree damage in Florissant. Winds estimated 50 to 55 mph.									
24 MONTANA									
Custer County	14	0300MST		0	0	3	2		Flash Flood
A flashflood down Coal Creek washed out approaches to bridges, weakened railroad bridges, and destroyed irrigation pipes near Fort Keogh.									
Dawson County	16	1200MST	.7	15	0	0	4	0	Tornado (F0)
A small tornado caused damage to homes and businesses in West Glendive.									
25 NEBRASKA									
Douglas Co. Omaha	02	Morning		1	0	0	0		Heat
A woman was found dead in her home from heat stroke. The daytime high of 95 marked the 15th consecutive 90 degree or above day. 6:55P.									
Webster Co. 15W Blue Hill	02	2310CST	0.2	40	0	0	4	0	Tornado (F1)
A tornado touched down briefly 1 mile southwest of Blue Hill, turning over a stock trailer and damaging a house and outbuildings.									
Douglas Co. Omaha	03	0532CST		0	1	3	1		Thunderstorm Wind (50)
Winds gusted to 59 m.p.h. at Omaha Eppley Airport downing trees in the area and blowing freight containers about. A man was injured in a nearby park when hit by a falling limb. Other tree damage was reported in Omaha along with power outages.									
Scottsbluff Co. 10E Scottsbluff	03	2200CST		0	2	4	1		Thunderstorm Wind
Strong winds heavily damaged a mobile home 10 miles east of Scottsbluff. A woman and child inside received minor injuries.									
Scottsbluff Co. Scottsbluff	04	0015CST		0	0	5	7		Thunderstorm Wind (56) Hail (1.75)
Strong winds and hail to 1 and 3/4 inches caused extensive crop damage in areas around Scottsbluff with an estimated 40 percent loss to beans, corn and sugar beets. Hail to 1 inch fell at Minatare and Gering at 0025CST. Property damage to vehicles and roofs was also reported at Scottsbluff where the wind gusted to 64 m.p.h. at the airport during the storm.									
Banner Co. 19NE Harrisburg	04	0100CST		0	0	6	4		Thunderstorm Wind Hail (1.0)
Strong winds destroyed a large corrugated steel and wood building on a ranch in the extreme northeast part of the county, 19 miles northeast of Harrisburg. Wind driven hail to 1 inch in diameter damaged crops and killed a cow.									
NEBRASKA									
Morrill Co. BSW Bridgeport	04	0115CST		0	0	3	5		Hail (0.75)
Wind driven 3/4 inch hail damaged crops 8 miles southwest of Bridgeport.									
Scottsbluff Co.	04	0200CST		0	0	6	5		Flash Flood
Heavy 4 to 8 inch rain caused a break on the Tri-State Canal 1 1/2 miles north of Hesslers Corner which fueled flash flooding on Nine Mile Creek north of Minatare. Water surrounded homes, washed out roads and bridges and forced some evacuations. The canal break created a torrent which swept cattle trailers, grain bins, irrigation pipes and other debris 3/4 miles south. Crop and soil erosion was heavy. Four inch rains flooded streets and businesses in the northeast part of Scottsbluff and backed up storm sewers.									
Kimball and Cheyenne Co. Dix, Potter	04	0245CST		0	0	6	6		Hail (3.00)
Wind driven 3 inch hail caused extensive damage to windows, roofs, siding and vehicles in and around Dix. Crops in a strip from Dix to Potter were also severely damaged. Hail accumulated to 4 feet deep in some areas and hail on the interstate caused a livestock truck to overturn killing 72 hogs.									
Kimball Co.	04	0245CST		0	0	4	4		Flash Flood
Heavy rains to around 4.5 inches eroded fields and damaged two earthen dams around Dix.									
Madison Co. Norfolk	06	0013CST		0	0	2	1		Thunderstorm Wind (53)
Wind gusted to 61 m.p.h. at the Norfolk airport with minor property damage.									
Lancaster Co. Roca	06	0750CST		0	0	1	2		Hail (0.75)
Three-quarter inch hail caused minor crop damage around Roca.									
Lancaster Co. Lincoln	06	1220CST		0	0	2	1		Hail (0.75)
Three-quarter inch hail fell in east Lincoln with only minor reported damage.									
Johnson Co. Cook	06	1600CST		0	0	3	3		Hail (1.0)
One inch hail caused minor crop and property damage at Cook.									
Kimball Co. 5N10E Kimball	06	1637CST	0.2	20	0	0	0	1	Tornado (F0)
A tornado was reported by Air Force personnel in open rangeland 5 miles north and 10 miles east of Kimball.									
Thayer Co. Deshler	07	1845CST		0	0	4	4		Hail (1.50)
One and a half inch hail damaged roofs and crops in the Deshler area.									
Douglas Co. Omaha	07	1940CST		0	0	5	1		Thunderstorm Wind Hail (1.50)
One and a half inch hail damaged cars in downtown Omaha. Strong winds broke tree limbs and downed power lines.									
Douglas Co. Omaha	07	1955CST		0	0	4	0		Lightning
Fire started by lightning damaged a building in west Omaha.									
Douglas Co. Omaha	07	2000CST		0	0	6	3		Flash Flood
Three and a half to 6 inch rains flooded streets, underpasses, and basements in Omaha. A few roads were reported washed out and for a time water was reported up to car doors in downtown streets. The rains caused a large section of roof of a seven story downtown office building to collapse resulting in heavy damage.									
Saunders Co. Prague	07	2000CST		0	0	3	4		Flash Flood
Four and a half inches of rain around Prague eroded crops and caused minor lowland flooding.									
Adams Co. Hastings	07	2030CST		0	0	4	0		Thunderstorm Wind (52)
Wind gusts estimated to 60 m.p.h. downed limbs and power lines in Hastings.									
Sarpy Co.	08	0545CST		0	0	2	2		Flood
Runoff from upstream heavy rains pushed Papillion Creek 1 foot over flood stage at Ft. Crook.									
Gage Co. Beatrice	09	1330CST		0	0	4	2		Thunderstorm Wind (59)
Winds gusted to 69 m.p.h. at Beatrice downing utility lines and trees.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 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		
NEBRASKA										
Dawes Co. 3E Chadron	13	1850CST			0	0	2	4	Hail (1.75)	One and three-quarter inch hail fell 3 miles east of Chadron with reported damage to crops.
Hamilton Co. Aurora	14	1540CST			0	0	3	3	Hail (1.50)	One and a half inch hail damaged crops and some roofs at Aurora.
Gage Co. Beatrice	14	1700CST			0	0	3	1	Thunderstorm Wind	A strong gust blew the roof off a building in Beatrice.
Grant and Hooker Co. Whitman, Mullen	15	1900CST			0	0	4	4	Hail (0.75)	Three-quarter inch hail damaged rangeland and hay fields and a number of ranch and service buildings from just south of Whitman to south of Mullen.
Pierce Co. SSW Pierce	17	1343CST			0	0	3	4	Hail (1.75)	One and three-quarter inch hail damaged crops 5 miles southwest of Pierce.
Pierce Co. Pierce	17	1400CST			0	0	4	0	Hail (1.75)	One and three-quarter inch hail damaged a few roofs and vehicles at Pierce.
Holt Co. Inman	17	1539CST			0	0	2	3	Hail (0.75)	Three-quarter inch hail fell in the Inman area with minor damage.
Antelope Co. Brunswick	17	1550CST			0	0	3	4	Hail (1.75)	One and three-quarter inch hail damaged crops around Brunswick.
Valley Co. Arcadia	17	1730CST			0	0	0	4	Hail (1.00)	One inch hail and strong winds damaged crops in the area around Arcadia.
Sherman Co. 6N Loup City, Ashton	17	1810CST			0	0	2	5	Hail (1.00) Thunderstorm Wind	One inch hail damaged crops from north of Loup City through the Ashton area. Strong winds also damaged a number of farm outbuildings along the path.
Wheeler Co. 7N Bartlett	17	1820CST			0	0	2	4	Hail (1.50)	One and half inch hail damaged crops 7 miles north of Bartlett.
Howard Co.	17	1835CST			0	0	2	4	Hail (0.75)	Wind driven three-quarter inch hail damaged crops around Dannebrog.
Hall Co. Cairo	17	1905CST			0	0	2	4	Hail (0.75)	Three-quarter inch hail along with strong gusty winds damaged crops in the vicinity of Cairo.
Hall Co. Grand Island	17	1910CST	0.3	40	0	0	6	1	Tornado (F1)	A tornado touched down in the northwest part of Grand Island and moved southeast about a quarter of a mile damaging 9 homes along with downing trees and power lines.
Hamilton and Clay Co.	17	1930CST			0	0	4	6	Hail (2.75)	Hail upwards to two and three-quarter inches heavily damaged crops in scattered areas from near Phillips southeast to the Sutton area. Some damage to roofs was also reported.
Nuckolls Co. Superior	17	2100CST			0	0	5	0	Thunderstorm Wind	Strong thunderstorm gusts destroyed an airplane hangar in Superior. Tree limbs were also broken.
Jefferson Co. Fairbury	17	2130CST	0.2	50	0	0	5	2	Tornado (F2)	A tornado touched down in southwest Fairbury and moved southeast about a quarter of a mile destroying a trailer home, damaging a number of other homes and uprooting trees and utility lines.
Jefferson Co. Fairbury	17	2130CST- 2150CST			0	0	7	7	Thunderstorm Wind (87) Hail (2.75)	Winds estimated 80 to 100 m.p.h. along with hail upwards to two and three-quarter inch in diameter caused severe crop damage from 7 miles northwest of Fairbury to the southwest edge of Fairbury. At least 30 buildings and homes along the path reported damage to roofs and siding, windows broken or blown out and vehicles dented.
NEBRASKA										
Richardson Co. Falls City	17	2300CST			0	0	3	1	Thunderstorm Wind	Wind gusts downed trees and power lines in Falls City.
Boone Co. Albion, St. Edward	19	0755CST			0	0	5	5	Hail (3.00)	Hail upwards to 3 inches in diameter damaged roofs and vehicles around Albion along with causing heavy crop damage. Three-quarter inch hail fell at St. Edward causing minor property damage but more significant crop damage southeast of town.
Platte Co. Monroe	19	0815CST			0	0	5	5	Hail (1.75)	One and three-quarter inch hail damaged crops, roofs and vehicles around Monroe.
Butler Co. Bellwood	19	0910CST			0	0	3	6	Hail (1.75)	One and three-quarter inch hail caused heavy damage to crops and some roofs in the Bellwood area.
Greeley Co. Spalding	19	0930CST			0	0	2	4	Hail (1.0)	One inch hail damaged crops in the region around Spalding.
Madison Co. Norfolk	19	0931CST			0	0	4	2	Thunderstorm Wind (57)	Wind gusts to 66 m.p.h. were recorded at the Norfolk airport. Damage was reported to trees and utility lines in the area.
Stanton Co. 5NE Norfolk	19	0940CST			0	0	2	4	Hail (0.75)	Three-quarter inch hail fell 5 miles northeast of Norfolk with minor damage. Hail also damaged crops in the south portion of the county.
Nance Co. Genoa	19	0945CST			0	0	4	4	Hail (1.0)	One inch hail damaged crops and outbuildings on farms just north of Genoa.
Madison Co. Madison	19	1000CST			0	0	3	3	Thunderstorm Wind (52)	Wind gusted to 60 m.p.h. at Madison damaging trees and signs.
Platte Co. Columbus	17	1030CST			0	0	5	2	Thunderstorm Wind	Strong winds broke tree limbs and blew shingles off of roofs at Columbus.
Colfax Co. Schuyler	19	1040CST			0	0	5	5	Thunderstorm Wind Hail (1.75)	Strong winds uprooted trees, broke limbs, and downed power lines at Schuyler. One and three-quarter inch hail heavily damaged crops north of town.
Dodge Co. Fremont	19	1115CST			0	0	5	6	Thunderstorm Wind (60) Hail	Wind gusted to 70 m.p.h. in the Fremont area downing trees and damaging power lines. Signs were also damaged in Fremont. Strong wind and half inch hail caused heavy crop damage and some building damage to the west and northwest of North Bend.
Saunders Co. Ashland	19	1130CST			0	0	4	4	Thunderstorm Wind Hail (1.00)	Strong wind gusts downed power lines and trees around Ashland. Some of the trees fell on buildings. A few roofs were also reported damaged in Ashland. Wind driven 1 inch hail damaged crops in areas around Ceresco, Morse Bluff and Prague.
Lancaster Co. 7NE Lincoln	19	1145CST			0	0	3	3	Hail (0.75)	Three-quarter inch hail 7 miles northeast of Lincoln caused some damage to vehicles and crops.
Douglas Co. Waterloo	19	1200CST			0	12	4	2	Thunderstorm Wind	Strong wind gusts blew down a large tent in which a lunch was being served. Twelve of the approximately 75 people inside were injured. Tree limbs were also blown down in the area.
Sarpy Co. Bellevue	19	1210CST			0	0	3	1	Thunderstorm Wind	Wind gusts blew down power lines in Bellevue.
Cass Co. Avoca, Louisville, Union	19	1220CST			0	0	5	6	Thunderstorm Wind (52) Hail (1.75)	Winds gusted to 60 m.p.h. at Avoca. Utility poles were broke and trees blown down south of Louisville with other extensive tree damage at Murdock. Hail upwards to one and three-quarter inch damaged field crops, orchards and farm buildings from around Murdock through Union.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 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	

NEBRASKA

Oroo Co. Nebraska City	19	1245CST	0	0	2	3	Hail (0.75)	Three-quarter inch hail in the Nebraska City area caused minor damage to field crops and orchards.
Nemaha Co. Peru	19	1310CST	0	0	3	4	Hail (1.00)	Hail to 1 inch damaged crops around Peru and Brownville.
Richardson Co. Falls City	19	1400CST	0	0	3	2	Thunderstorm Wind	Wind gusts caused some roof damage just southwest of Falls City and blew down corn plants. A few trees were blown down in Falls City.
Gage Co. Wymore	19	1415CST	0	0	3	4	Hail (1.5)	One and a half inch hail damaged crops and dented a few vehicles at Wymore.
Butler, York, Seward and Saline Co.	24- 25	Night- Morning	0	0	5	6	Flash Flood	Heavy rains flooded farmlands, roads, washed out bridges and caused soil erosion and crop damage from northeast Butler County across Butler and northern Seward County. 5.5 inches of rain fell at Staplehurst, 5.0" at Waco, 4.4" at Ulysses and Surprise, and 4.2" at David City. Plum Creek was forced out of banks surrounding a number of homes in Seward. Runoff resulted in lowland flooding along the Big Blue River into the 29th. A stage of 0.5 feet over flood stage was recorded at Surprise on the 25th; 1.0 feet over flood stage at Seward on the 26th and 3.9 feet over flood stage at Crete on the 28th. Lincoln Creek also crested 3.8 feet over flood stage at Seward.
Saunders Co.	25	Morning	0	0	6	7	Flash Flood	Very heavy rains flooded farmlands, county and state roads, washed out bridges and forced creeks and rivers out of banks. 7.15 inches of rain was measured at Ceresco, 7" at Ashland and 6.75 inches at Valparaiso. Streets were flooded at Ashland and basements were flooded. Crops were heavily damaged and soil eroded. Runoff kept some streams out of banks into the 27th. Salt Creek was pushed out of banks with a stage 5 feet over flood stage at Ashland on the 25th. Rock Creek crested 7.6 feet over flood stage at Ceresco on the 25th. Wahoo Creek crested 4 feet over flood stage at Wahoo and 3.1 feet over at Ithaca on the 26th.
Lancaster Co.	25	Morning	0	0	6	6	Flash Flood	Very heavy rains fell in northern Lancaster County flooding farm lands, state and county roads and forcing streams out of banks. State and county roads were flooded and bridges washed out. Highway 77 closed as water rose from flooding Rock Creek to the depth of car windows floating a number of vehicles off the road. Rock Creek also flooded homes, damaged crops, and washed away livestock. Rainfall of 7.3 inches was measured at Waverly.
Cass and Sarpy Co.	25	Morning	0	0	5	5	Flash Flood	Heavy rain flooded lowlands, buildings and roads, damaged crops and pushed creeks out of banks. Water rose to the depth of vehicle windows on interstate access roads west of Greenwood. Some intersection flooding was reported in Bellevue. Rainfall included 6.3" at Greenwood, 6.2" at Louisville, and 5.1" at Bellevue. Runoff kept creeks out of banks into the 26th. A stage 5 feet over flood stage was measured near Greenwood on Salt Creek on the 25th and 1.5 feet over flood stage at Union on Weeping Water Creek on the 26th.
Nemaha and Richardson Co.	26- 27	Afternoon Afternoon	0	0	2	4	Flood	Runoff from upstream tributaries pushed the Missouri a small amount out of banks. A stage 0.9 feet above flood stage was recorded at Brownville on the 26th and 0.5 feet over at Rulo on the 27th.

26 NEVADA

Clark Co.	03	1330PST	0	1	0	0	Flash Flood	Flash flooding from heavy, slow moving thunderstorms sent 3 to 5 feet of water across S.R. 160 at Lovell Canyon Wash about 25 miles west of Las Vegas. One woman was swept about 1/2 mile downstream while attempting to cross the wash on foot after the flood had stopped traffic along the road. She suffered some injuries and was hospitalized. There were no other reported injuries or damage.
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NEVADA

Clark Co.	05	1630PST	0	0	0	0	Flash Flood	Flash flooding from heavy, slow moving thunderstorms washed out all roads leading into and out of Sandy Valley, some 32 miles southwest of Las Vegas. There were no other reports of damage and roads were reopened the next day.		
White Pine Co.	06	1430PST	0	0	3	0	Flash Flood/ Mudslide	Heavy thunderstorms in the Ely area dumped up to 2.00 inches of rain during a period of 1 1/2 hours resulting in street and intersection flooding around town. There were no reports of major flooding or damage. A mudslide from the same cluster of storms sent 1 1/2 feet of mud and rocks across U.S. 93 about 6 miles north of Ely, temporarily closing the road. A snowplow opened one lane and kept it clear until the flow subsided.		
Lincoln Co.	07	1600PST	0	0	0	0	Flash Flood	Water was across the road and boulders blocked one lane of U.S. 93 a couple of miles north of Alamo.		
Lincoln Co. 25 Hiko	07	1600PST	0.1	10	0	0	5	0	Tornado (F0)	A small tornado touched down 2 miles south of the small community of Hiko in west-central Lincoln County. It tore the roof off one home and uprooted several trees. Also, numerous bales of hay "disappeared". No one was reported injured or killed.
Lincoln Co.	08	1125PST	0	0	0	0	0	0	Flash Flood	Heavy rains sent up to 2 feet of water across some roadways east of Caliente. No reports of damage.
Elko Co.	14	1055PST	0	1	0	0	0	0	Lightning	24 year old man was struck by lightning in the Wildhorse area. The man had just stepped out of his front door when he was struck. He was not knocked unconscious but his right arm was paralyzed. A follow-up query about a week later showed some improvement but he still had some motor and co-ordination problems with his right hand.
Elko Co.	14	1325PST	0	0	0	0	0	0	Funnel Cloud	A short-lived funnel cloud was sighted just north of Carlin.
Nye Co.	30	1645PST	0	0	0	0	0	0	TSTM WIND (52)	The Tonopah airport recorded a wind gust of 52 knots from a high-based thunderstorm along with reduced visibilities in blowing dust and sand. There were no reports of damage.

27 NEW HAMPSHIRE

Sullivan Co.	19	1755EDT	0	0	4	0	T WIND	
Claremont	19	1810EDT	0	0	4	0	T WIND	
Newport, Sunapee								
Merrimack Co.	19	1835EDT	0	0	3	0	T WIND	
Warner	19	1835EDT	0	0	3	0	T WIND	
Franklin								
Grafton Co.	19	1855EDT	0	0	4	0	T WIND	
Holderness								
Carroll Co.	19	1905EDT	0	0	4	0	T WIND	
Sandwich, Tamworth	19	1920EDT	0	0	3	0	T WIND	
Tuftonborough								
Strafford Co.	19	1925EDT	0	0	3	0	T WIND	
Strafford								

A line of severe thunderstorms swept across central sections of the State, leaving a 60-mile wide swath of destruction. Trees and four major roads were closed in Claremont and Main Street was blocked in Sunapee. Power outages due to fallen trees and power lines also occurred in Newport, Moultonboro, Ossipee, and New Durham. Falling trees damaged houses in Claremont and Holderness.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1987

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					KILLED	INJURED	PROPERTY	CROPS	
28 NEW JERSEY, Northern									
Bergen, Essex, Morris Passaic and Somerset Co.	05	Evening			0	0	?	0	Flash Flood
			A series of very heavy thunderstorms dumped as much as 5 inches of rain across sections of Northern New Jersey. The major rivers remained within their banks however small streams overflowed and considerable urban flooding occurred across sections of Bergen, Essex, Morris, Passaic and Somerset Counties. Somerville in Somerset County reported 2.5 to 3 feet of water on some roads. Numerous traffic accidents were attributed to the flooding and heavy downpours.						
28 NEW JERSEY, Southern									
Camden County Berlin	5	1358 EST			0	0	2	0	TSTM Winds
			Thunderstorm winds brought down power lines.						
Atlantic County 1 W Richland	5	1415 EST	.25	50	0	0	3	0	Tornado (FO)
			A tornado touched down near Richland taking down trees and power lines and overturning one small trailer at Buena Vista Campground. Some of the trees were twisted off.						
Burlington County Indian Mills	9	1635 EST			0	0	4	0	TSTM Wind (61) Hail (0.75)
4 E Camden	9	1656 EST			0	0	2	0	TSM Wind
Mount Laurel	9	1705 EST			0	0	2	0	TSTM Wind
Hainesport	9	1725 EST			0	0	2	0	TSTM Wind
Lumberton	9	1728 EST			0	0	2	0	TSTM Wind
10 SE Hainesport	9	1740 EST			0	0	2	0	TSTM Wind
Marlton	9	2000 EST			0	0	2	0	TSTM Wind (52)
Medford	9	2010 EST			0	0	3	0	TSTM Wind (52)
Marlton	9	2030 EST			0	0	3	0	TSTM Wind
Mount Laurel	9	2235 EST			0	0	2	0	TSTM Wind
Medford	9	2243 EST			0	0	2	0	TSTM Wind
			Thunderstorm wind gusts brought down many trees in the Indian Mills around 5:35 PM EDT with some falling on automobiles and on one house trailer. The wind gusts were estimated at 70 MPH and caused a damage path 3 miles long and 1/4 mile wide. Hail 3/4 inch in diameter was also reported. Thunderstorm winds brought down power lines in Maple Shade Township, east of Camden, at 5:56 PM EDT, in Mount Laurel at 6:05 PM, in Hainesport at 6:25 PM, in Lumberton at 6:28 PM, in Hampton Township, Southeast of Hainesport, at 6:40 PM, in Marlton at 9:00 PM, in Mount Laurel at 11:35 PM and in Medford at 11:43 PM. Many trees were also downed by winds estimated at 60 MPH in Marlton at 9:00 PM and in Medford at 9:10 PM. There also was minor damage to a restaurant in Medford at this time. Several trees were downed in Marlton around 9:30 PM causing damage to one house and 1 automobile. There also was some roadway flooding and flooding along one small stream in Medford around 11:43 PM.						
Camden County Cherry Hill	9	2020 EST			0	0	3	0	TSTM Wind
10 SE Camden	9	2025 EST			0	0	2	0	TSTM Wind
			A tree was blown into the living room of a house in Cherry Hill. Thunderstorm wind gusts also brought down trees and power lines in Vorhees Township to the southeast of Camden.						
Ocean County 5 W Toms River	9	2310 EST			0	0	2	0	TSTM Wind
			Thunderstorm winds brought down power lines in Manchester Township to the west of Toms River.						
Burlington County 4 SE Tabernacle	9	2320 EST			0	0	2	0	TSTM Winds
			Thunderstorm wind gusts brought down power lines in Tabernacle Township.						
29 NEW MEXICO									
Colfax County-NM2004	2	1730 MST			1	0	0	0	Lightning
			U.S. Air Force Academy Cadet killed standing under some trees six miles southwest of the Philmont Scout Ranch headquarters. Was on staff temporarily at ranch. (M210)						
Bernalillo County-NM2007	2	1900 MST			0	0	0	0	Flash Flood
			Street flooding in eastern Albuquerque metro area from slow moving thunderstorms.						
Cibola County-NM2006	4	1430 MST			0	0	4	0	Flash Flood
			Very heavy brief thunderstorm washed out roads in the El Morro National Monument. The storm also stranded several people on the mesa top. Significant amounts of small hail pelted the area. Unofficial estimate of two inches in 30 minutes by park officials.						
Sierra County-NM2011	4	1500 MST			0	0	0	0	Flash Flood
			Mostly street flooding from heavy downpours in downtown Truth or Consequences.						
McKinley County-NM2006	5	2030 MST			0	0	?	0	Flash Flood
			Thunderstorms produced rapid rise in the Rio Puerco near Gallup. One bridge was washed out and some roads under water east side of town. No homes flooded as river did not spill into the Gallup area.						
McKinley County-NM2006	7	1815 MST			0	0	0	0	Flash Flood
			Flooding of streets north side of town in Gallup. Small hail also accompanied the storm.						
Valencia County-NM2007	7	1600 MST			0	0	5	0	Flash Flood
			Unofficial reports of 3.5 inches of rain in 30 minutes in the village of Los Lunas. Ten streets were washed out while the water also got into some homes. Water lines and sewer systems were also damaged. Residents say this was the worst deluge in recent history.						
Otero County-NM011	8	2000 MST			0	1	0	0	Lightning
			Man was knocked to ground while walking across a street in Alamogordo as lightning struck nearby.						
Dona Ana County-NM2011	8	1535 MST			0	0	?	0	Flash Flood Thunderstorm Wind
			Street flooding and high winds in Las Cruces from storm that dumped near 1.5 inches of rain. Windspeeds were not estimated. Only weaker structures such as sheds and small trees were damaged.						
San Miguel County-NM2004	8	1710 MST			0	0	?	0	Flash Flood Thunderstorm Wind
			Heavy rains and high winds affected various areas around Las Vegas. State highway 3 north of town was covered by three feet of water. Residents east of town relayed reports of high winds that knocked down fences and damaged homes.						
Union County-NM2005	8	1740 MST			0	0	?	0	Flash Flood
			Water from heavy storm washed out a portion of Highway 56 stranding motorists 25 miles west of Clayton.						
Cibola County-NM2006	9	????MST			0	0	?	0	Flash Flood
			Heavy rain flooded town of San Rafael. Flash flooding has been a problem in this town. However, this downpour produced flooding in areas that have not flooded before.						
Curry County-NM2009	10	0000-0600 MST			0	0	?	0	Flash Flood
			Mostly street and rural highway flooding around Clovis as anywhere from one-half inch to over an inch and a half of rain fell during the night. Estimates from the entire weekend were from one-half to near 4 inches. Several streets in Clovis were closed due to high water.						
Sandoval County-NM2007	11	1700 MST			0	0	4	0	Flash Flood
			Street and arroyo flooding plus flooding of seven homes in Rio Rancho just northwest of Albuquerque. Several streets washed out by water. Unofficial estimates of 1.5 to 2 inches in a very brief period.						

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 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	

NEW MEXICO									
Grant County-NMZ010	12	1530 MST			0	24	0	0	Lightning
Lightning struck a high school football field near a group of high school football players just east of Silver City. Eighteen players were treated and released from Gila Regional Medical Center. Six others were admitted. Injuries were minor with most players receiving some degree of mostly superficial burns.									
Los Alamos County-NMZ002-003	13	1210 MST			0	0	5	0	Lightning
Lightning struck two power systems near Los Alamos and White Rock.									
Eddy County-NMZ013	13	????			0	0	?	0	Thunderstorm Wind
Strong winds knocked down power lines south of Carlsbad.									
Cibola County-NMZ010	23	1430 MST			0	0	?	0	Flash Flood
Highway 53 south of San Rafael washed out in four different places. Also, water into some homes. Boulders, trees, and assorted debris washed out of canyons onto the roads and into town.									
Sandoval County-NMZ007	23	1845 MST			0	0	0	0	Funnel Cloud
Police and private citizens reported two funnel clouds to west of Rio Rancho. Weather service observers at the Albuquerque International Airport also observed funnel-like formations in the same area.									
Dona Ana County-NMZ011	24	0300 MST			0	0	4	5	Flash Flood
Heavy overnight rains caused an irrigation canal to burst producing a flood in the downtown and surrounding areas of Hatch. Unofficial estimates of 3.5 inches of rainfall received. At one point 36 blocks of the town were under water. Up to 30 percent of chile crop lost.									
Santa Fe County-NMZ002	24	1200 MST			0	0	0	0	Funnel Cloud
Tower personnel at the airport in Santa Fe observed a small funnel cloud four miles south-east.									
Dona Ana County-NMZ011	24	1400 MST			0	0	6	5	Flash Flood
5.40 inches of rain fell at La Union. Unofficial reports of 7.25 inches just west of Anthony. Low lying residential area and crop land of Rio Grande Valley from El Paso, TX to Las Cruces had problems with standing water and water entering homes. Also, street flooding in Las Cruces. Crop damage estimates also include chile loss from Hatch flood above caused by same system. No way to divide the damages according to county agent.									
Santa Fe County-NMZ002	25	1245 MST			0	0	0	0	Funnel Cloud
Several funnel clouds were spotted by tower personnel at Santa Fe airport, a meteorologist with the Albuquerque Weather Service office, and the public in Santa Fe. Funnels were spotted just southwest of the airport in Santa Fe and approximately 15 miles southeast of the city of Santa Fe.									
Torrance and Santa Fe Counties-NMZ008	26	1150 MST			0	0	0	0	Funnel Cloud
Funnel cloud sighted by public between Edgewood and Moriarty. Lasted only few minutes.									
Bernalillo County-NMZ007	26	1500 MST			0	0	0	0	Flash Flood
Mostly street flooding in and near Albuquerque. Pea size hail also with some storms. Reports of one inch in 25 minutes in the northeast heights of Albuquerque.									
Harding County, 15NE Roy	27	1045 MST	?	?	0	0	0	0	Tornado(F0)
A tornado was spotted by a resident and reported by the sheriff's office 15 miles northeast of Roy. It touched down in an uninhabited area.									
De Baca County-NMZ009	27	1415 MST			0	0	0	0	Funnel Cloud
Funnel cloud reported just east of Fort Sumner.									
De Baca County-NMZ009	27	1620 MST			0	0	0	0	Funnel Cloud
Two funnels reported by Civil Defense about 20 miles north of Fort Sumner.									

NEW MEXICO									
Chaves County-NMZ0013	27	1838 MST			0	0	0	0	Thunderstorm Wind(58)
Strong winds and undeterminable size of hail in and around Roswell. Wind measured at Roswell airport.									
San Miguel County-NMZ004	28	Evening			1	0	0	0	Lightning
Hitchhiker struck on Interstate 25 south of Las Vegas sometime Friday evening. Body not found until Saturday afternoon, so could only guess from medical examiner on time of death. (M300)									
Guadalupe County-NMZ009	29	1530 MST			0	0	5	0	Hail(1.00-1.50)
Hailstorm hit Santa Rosa damaging many cars and homes. Lasted for 30 to 40 minutes.									
Rio Arriba County-NMZ002	29	1550 MST			1	0	0	0	Lightning
Woman killed while fishing at Burns Lake 10 miles northwest of Tierra Amarilla in north central NM. Had her feet in water and bolt struck her head. CPR administered but failed. (F270)									
Lea County-NMZ013	30	1300 MST			0	0	0	0	Funnel Cloud Hail(1.00)
Several funnels sighted by Civil Defense in Hobbs. Pea size to almost golf ball size hail accompanied the nearby storms.									
Roosevelt County	30	1310 MST	?	?	0	0	0	0	Tornado(F0)
State Police reported a tornado 10 to 15 miles southwest of Elida.									
Roosevelt County-NMZ009	30	1332 MST			0	0	0	0	Funnel Cloud
Funnel reported by state police 5 miles south of Dera.									
30 NEW YORK, Coastal									
Westchester Co.	05	1730EST			0	0	0	0	Flash Flood
Very heavy and continuous rain caused Tibbets Brook to overflow in the town of Yonkers. Also the Hutchinson river overflowed closing down sections of the Hutchinson River Parkway.									
30 NEW YORK, Central									
Dutchess County	17	Unknown	--	--	1	0			Heat
One (1) male suffered heat stroke and later died. Cause was listed as extreme heat. Local power companies exceeded all-time record electrical demand on this date as well.									
Chenango County	19	1430EDT	--	--	0	1	5	3	ThunderstormWind
One (1) person was hurt and 2700 homes left without power when thunderstorms rolled across Chenango County. Downed trees and power lines forced the closing of Routes 51 and 12. Large trees were also uprooted.									
Cortland	19	1400EDT	--	--	0	0	4	0	ThunderstormWind
Cortland (City)	19	1405EDT	--	--	0	0	2	0	Lightning
Thunderstorm winds uprooted trees and dropped them on power lines, knocking out 1600 homes. Lightning also hit a transformer and knocked out an additional 600 homes; .94 inch of rain also fell in 30 minutes, resulting in some urban drainage problems.									
Otsego County	19	1530EDT	--	--	0	0	3	0	ThunderstormWind
Thunderstorm winds downed trees and power lines.									
Montgomery	19	1526EDT	--	--	0	0	4	2	ThunderstormWind
St Johnsville	19	1540EDT	--	--	0	0	5	0	Thunderstorm Wind
Ft Plain	Trees down.								

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					KILLED	INJURED	PROPERTY	CROPS	
NEW YORK, Central									
Fulton	19	1530EDT	--	--	0	1	5	4	Thunderstorm/Wind
Johnstown									
Mayfield	19	1600EDT	--	--	0	0	5	0	Thunderstorm/Wind
									Strong thunderstorm winds, estimated at better than 60 MPH, downed power lines, uprooted trees, and toppled a concrete wall of a warehouse.
Washington	19	1615EDT	--	--	0	0	4	0	Thunderstorm/Wind
Hudson Falls	19	1635EDT	--	--	0	0	4	3	Thunderstorm/Wind
Salem	19	1645EDT	--	--	0	0	4	7	Thunderstorm/Wind
Granville									Violent thunderstorms and high winds swept through portions of Washington County. Several large trees were uprooted; over 250 homes were without power for more than seven (7) hours. In the town of Salem some farmers were unable to finish their milking, until power was restored.
Saratoga	19	1630EDT	--	--	0	0	4	4	Thunderstorm/Wind
W. Milton	19	1630EDT	--	--	0	1	4	0	Thunderstorm/Wind
Clifton Park	19	1650EDT	--	--	0	0	3	3	Thunderstorm/Wind
Gansvoort									Local police and fire units reported at least 15 separate incidents of downed trees and power lines. One (1) male was injured, the result of his car being hit by a falling tree.
Rensselaer	19	1700EDT	--	--	0	0	3	0	Thunderstorm/Wind
E. Greenbush									Trees down.
Sullivan	19	1912EDT	--	--	0	0	4	0	Thunderstorm/Wind
									Trees were blown down near Woodbourne.
Ulster	19	1956EDT	--	--	0	0	4	0	Thunderstorm/Wind
									Thunderstorms during the late evening blew down trees and power lines. Over 400 homes were without power for two - four hours, in the city of Newburgh.
Franklin	19	2040EDT	--	--	0	0	5	4	Thunderstorm/Wind
									Trees down.
Orange	19	2200EDT	--	--	0	0	5	0	Lightning
									Lightning struck a radio tower in the town of Cornwall.
Warren	19	1615EDT	--	--	0	6	5	0	Thunderstorm/Wind/Rain
									Powerful thunderstorms, accompanied by torrential downpours moved across Warren County. Nearly 1000 homes were left without power when trees fell on power lines. Five (5) persons were injured when a motorist tried to go around downed power lines and struck (head-on) a fire apparatus responding to another emergency. Another man was injured when a power pole struck him on the head. The pole snapped during a strong wind gust.
30 NEW YORK, Western									
Gleason County	09	1245 EST			0	0	3	0	Rain
Monroe County	09	1430 EST			0	0	3	0	TS Wind
									Heavy rains caused street and basement flooding in Medina and Albion. In Chili and Gates (near Rochester), strong winds broke tree limbs and power lines to more than 3000 homes.
Cayuga County	17	1638 EST			0	0	3	0	TS Winds
Seneca County	17	1640 EST			0	0	3	0	TS Winds
									Strong winds toppled a tree onto a house in Aurelius, Cayuga County. Another tree was downed in Senett, also in Cayuga County. There were reports of broken tree limbs and power lines in Waterloo and Seneca Falls, Seneca County
Cattaraugus County	17	1730 EST			0	0	3	0	Lightning
									Lightning strikes caused power outages in Olean, Portville, Allegany, Franklinville, and Delevan in Cattaraugus County.
NEW YORK, Western									
Cayuga & Onondaga Counties	17	1700 EST			0	0	3	0	TS Winds
Onondaga County	17	1730 EST			0	0	3	0	TS Winds
Oswego County	17	1800 EST			0	0	4	0	Lightning & TS Winds
									Trees and power lines were downed in Montezuma and Port Byron, Cayuga County; in Syracuse, Liverpool, and Marcellus in Onondaga County; and in Central Square in Oswego County.
									Lightning struck a few houses in Pulaski and a barn in Parish, both in Oswego County.
Lewis County	17	1900 EST			0	0	3	0	Lightning
									In Carthage, lightning knocked down a huge tree which fell onto a house and a truck.
Wayne County	19	1130 EST			0	0	0	4	Hail (.50)
									Apple orchard owners in the town of Rose and Sodus lamented the loss of a significant portion of their crop from hail.
Orleans & Genesee	19	1700 EST			0	0	3	3	Hail (.50) & Lightning
									Hail damaged beans and fruit trees in Oakfield, Genesee County; and Waterport, Orleans County.
									In Gaines, Orleans County, lightning zapped a tree limb which damaged a car.
Oswego County	19	1730 EST			0	0	4	0	Lightning
									Lightning severed power lines in Williamstown. It also ignited 3 homes.
31 NORTH CAROLINA									
Onslow Co., 4 NW Hollyridge	01	1330EST			0	0	?	0	TSTM Winds
									Three large trees were blown down across SR 50.
Johnston Co., Smithfield	03	1700EST			0	0	3	0	TSTM Winds
Johnston Co., 6 N Smithfield	03	1715EST			0	0	3	?	TSTM Winds
									A severe thunderstorm moved through central Johnston county blowing down trees and power lines.
Wake Co., 5 S Garner	04	1400EST			0	2	4	?	TSTM Winds
Johnston Co., Benson	04	1435EST			0	0	3	0	TSTM Winds
Johnston Co., Benson	04	1515EST			0	0	?	0	TSTM Winds
Orange Co., Chapel Hill	04	1505EST			0	0	0	0	Funnel Cloud
Chatham Co., All	04	1515EST			0	0	?	?	TSTM Winds
Orange Co., 1 E Hillsborough	04	1530EST			0	0	0	?	TSTM Winds
Harnett Co., Coats	04	1545EST			0	0	?	?	TSTM Winds
Wayne Co., Goldsboro	04	1600EST			0	0	3	0	TSTM Winds (58)
Harnett Co., Near Bunn Level	04	1650EST			0	0	?	0	TSTM Winds
Martin Co., Silome Church, Just W of Jamesville	04	1650EST			0	0	3	0	TSTM Winds
Martin Co., Beargrass	04	1650EST			0	0	?	?	TSTM Winds
Chowan Co., Edenton	04	1650EST			0	0	0	5	TSTM Winds
									Severe thunderstorms developed over central North Carolina and caused many trees and power lines to be blown down. A couple of storms hit Benson in western Johnston county. One of these storms caused quite a bit of damage to power lines, and a 2 ton wooden storage building to be blown over. South of Garner in Wake county, a home under construction was destroyed by wind. 2 men inside were injured - damage was estimated at \$25,000. Numerous large trees and power lines were blown down in Martin county. Another strong storm caused quite a bit of damage at Goldsboro. At Edenton, winds measured at 60 mph destroyed crops. The remainder of storm damage in the area was mostly to trees, although a large funnel cloud was observed by a number of people at the Chapel Hill airport.

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					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	
— NORTH CAROLINA											
Gates Co, All	05	1610EST			0	0	?	?			TSTM Winds
Perquimans Co, All	05	1658EST			0	0	?	?			TSTM Winds
Pasquotank Co, Elizabeth City	05	1720EST			0	0	5	0			TSTM Winds
Wilkes Co, North Wilkesboro	05	1800EST			0	0	4	?			TSTM Winds
Burke Co, Morganton	05	1830EST			0	0	4	?			TSTM Winds
Iredell Co, Statesville	05	1930EST			0	0	4	?			TSTM Winds
			<p>Two areas of severe thunderstorms developed in North Carolina. The first storms caused heavy damage in the "Albemarle" region of the state. Numerous trees were blown onto trees and power lines over nearly all of Perquimans and Gates counties. The storm in Elizabeth City was described as the worst in 20 years. Damage to city utilities was at least \$15,000. Lightning with the storm also caused considerable damage. Similar storms developed in the western part of the state. In Wilkes county signs were blown off or damaged in North Wilkesboro, and numerous trees and power lines were blown down. Near Morganton, numerous trees and power lines were blown down, signs were blown down, and two mobile homes were damaged by the wind. At Statesville trees were blown onto homes, and power was out to over 1500 customers most of the night as a result of high thunderstorm winds.</p>								
New Hanover Co, Coastal Waters	07	1430EST			0	0	0	0			Waterspouts
			<p>Waterspouts were sighted but did not affect boats in the area.</p>								
Iredell Co, Jones Fish Camp	08	1600EST			0	1	0	0			Lightning
Mecklenburg Co, SE	08	1808EST			0	0	4	0			TSTM Winds
			<p>A 9 year old girl was struck and injured by lightning in Iredell county. She was admitted to the hospital for overnight observation, and then released. In the eastern part of Charlotte, thunderstorm winds caused \$7,000 damage to campers and cars. Power lines were blown down, and trees were blown down. A trailer truck was blown onto a car.</p>								
Pitt Co, Fountain	10	1640EST			0	0	0	?			Hail(0.75)
Pitt Co, Greenville	10	1730EST			0	0	3	0			TSTM Winds
Craven Co, Near Wilmar	10	1758EST			0	0	?	0			TSTM Winds
Lenoir Co, I S Kinston	10	1800EST			0	0	4	?			TSTM Winds
			<p>Winds from a severe thunderstorm blew down some power lines in the city of Greenville. The wind, along with other storm effects, also caused wrecks in the city. Dime size hail was reported at Fountain, and trees were blown down near Wilmar.</p>								
Nash Co, Gold Valley Area (WRN)	19	1315EST			0	0	?	?			Hail(1.75)
Nash Co, RWI	19	1338EST			0	0	4	?			TSTM Winds
Johnston Co, Clayton	19	1345EST			0	0	3	0			TSTM Winds
Dare Co, Pamlico Sound/Coastal Waters	19	1350EST			0	0	0	0			Waterspouts
Edgecombe Co, 2 E Macclesfield	19	1400EST			0	0	3	?			Hail(0.75)
Edgecombe Co, SERN	19	1430EST			0	0	3	?			TSTM Winds
Richmond Co, Rockingham	19	1600EST			0	0	3	0			TSTM Winds
Pender Co, Burgaw	19	1630EST			0	0	3	0			TSTM Winds
Craven Co, New Bern Area to Jones Co Ln	19	1630EST			0	0	?	5			TSTM Winds, Hail(0.75)
Cumberland Co, I S N Fayetteville	19	1710EST			0	0	?	?			TSTM Winds
			<p>A severe thunderstorm developed in western Nash county and dropped golf ball size hail in the Gold Valley area. The storm moved across the county, and produced a large swath of hail and wind damage in the extreme eastern part of the county. Winds reached 65 knots at the Rocky Mount-Wilson Airport with 1.25 inch hail also observed. Near the airport crops were wiped out by the combination of wind and hail. Cars and other property was damaged heavily - one person reported 58 dents on his car. The storm continued to produce large hail and damaging winds across Edgecombe county. Power lines were blown down in Clayton along with some trees. A 1/2 mile area of damaging winds was reported north of Fayetteville in Cumberland, and severe storms caused some damage along the coastal area. Numerous trees were blown down in Craven county, and there was crop damage from hail. Several fires were started from downed power lines at Burgaw where winds gusted as high as 57 knots. Some trees and power lines were downed, and the roofs of some buildings were damaged in Richmond county.</p>								
— NORTH CAROLINA											
Wake Co, Cary/Apex	21	1345EST			0	0	4	0			TSTM Winds, Hail(1.00)
Wake Co, Wilbon	21	1415EST			0	0	?	?			TSTM Winds, Hail(0.75)
Lee Co, Swann	21	1500EST			0	0	3	5			Hail(1.00)
Harnett Co, W of Lillington	21	1530EST			0	0	?	?			TSTM Winds
Moore Co, Between Whispering Pines/ Cameron	21	1600EST			0	0	?	5			Hail(1.00)
Scotland Co, Laurinburg	21	1630EST			0	0	?	0			TSTM Winds
			<p>A severe thunderstorm developed over the Cary and Apex areas. There were numerous reports of large hail with the storm and some trees were blown onto houses. This storm moved into southern Wake county: trees were blown down and large hail was reported near Wilbon. A storm moved from north to south across parts of the sandhills. Large hail fell at Swann, and broke windows in homes. Trees were blown down in central Harnett county. 1 inch hail destroyed tobacco crops in Moore county, and trees and limbs were blown down in and near Laurinburg.</p>								
Granville Co, Oxford	27	2050EST			0	0	?	?			TSTM Winds
Vance Co, Kittrell	27	2115EST			0	0	3	5			TSTM Winds
			<p>A severe thunderstorm produced large hail that destroyed tobacco crops in southern and eastern sections of Vance county: trees were blown across roads in the Kittrell area. Large hail was also reported in Granville county.</p>								
Henderson Co, Hendersonville	28	1830EST			0	0	4	?			TSTM Winds
Rutherford Co, Spindale	28	1930EST			0	0	3	0			TSTM Winds
Person Co, 10 N Roxboro	28	2000EST			0	0	?	?			TSTM Winds
Warren Co, NW of Oline	28	2100EST			0	0	0	0			Funnel Cloud
Warren Co, Warrenton and Norlina Areas	28	2115EST			0	0	3	?			TSTM Winds
			<p>A violent thunderstorm with winds estimated by some as high as 80 mph blew down numerous large trees near Horse Shoe in Henderson county. The storm also caused quite a bit of damage in Hendersonville, blowing down trees and power lines. The same storm apparently affected Rutherford county later in the evening. There power was out to about 400 customers for several hours after a storm blew trees and limbs onto power lines. A severe storm developed along the Virginia border. North of Roxboro winds were high enough to cause some power lines to be blown down, and a deputy reported that his car was almost blown off the road. The same storms moved into northern Warren county, and caused trees and power lines to be blown down. A patrolman sighted a funnel cloud northwest of the Oline community.</p>								
Stanly Co, Norwood and Auaadale	29	1450EST			0	0	4	?			Hail(1.75), TSTM Winds
Stanly Co, Just SE Albemarle	29	1510EST			0	0	5	?			Hail(2.75)
Columbus Co, Evergreen	29	1520EST			0	0	3	?			TSTM Winds
Montgomery Co, Carolina Forest	29	1520EST			0	0	4	?			Hail(1.75)
Stanly Co, ESE of Albemarle	29	1530EST			0	0	4	?			Hail(2.75)
Robeson Co, Fairmont	29	1530EST			0	0	?	?			TSTM Winds
Columbus Co, Whiteville, Lake Waccamaw	29	1540EST			0	0	4	?			TSTM Winds, Hail(0.75)
Stanly Co, ESE of Albemarle	29	1545EST			0	0	4	?			Hail(2.75)
Stanly Co, Lake Tillery	29	1600EST			0	0	4	?			Hail(2.75)
Davidson Co, Lexington	29	1600EST			0	0	4	0			TSTM Winds
Robeson Co, Rowland	29	1605EST			0	0	?	?			TSTM Winds
Union Co, Marshville and Wingoate	29	1627EST			0	0	4	?			Hail(1.75), TSTM Winds (52)
Pender Co, Watha Community	29	1645EST			0	0	0	0			Hail(0.75)
Randolph Co, SWRN	29	1700EST			0	0	?	?			TSTM Winds
Robeson Co, Lumberton	29	1700EST			0	0	0	0			Hail(0.75)
Randolph Co, Asheboro	29	1715EST			0	0	4	0			TSTM Winds, Hail(2.75)
Randolph Co, Tabernacle	29	1735EST			0	0	5	0			TSTM Winds
Moore Co, High Falls	29	1750EST			0	0	5	?			TSTM Winds
Chatham Co, Near Bennett	29	1750EST			0	0	?	?			TSTM Winds, Hail(0.88)
Moore Co, Cameron	29	1806EST			0	0	5	?			TSTM Winds
Moore Co, Vass	29	1830EST			0	0	5	?			TSTM Winds, Hail(1.75)
Lee Co, Extreme SRN	29	1830EST			0	0	3	?			TSTM Winds
Cumberland Co, POB and Spring Lake	29	1850EST			0	0	4	0			TSTM Winds (50)
Harnett Co, SWRN	29	1900EST			0	0	3	0			TSTM Winds
Cumberland Co, NRN	29	1915EST			0	0	5	0			TSTM Winds
Cumberland Co, NE	29	1940EST			0	0	4	0			TSTM Winds

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NORTH CAROLINA											
Fayetteville Union Co, S of Marshville	29	1951EST			0	0	?	?	Hail(1.75)		
Anson Co, White's Store Road	29	2000EST			0	0	?	?	Hail(1.75)		
Cabarrus Co, 3 E Mt Pleasant	29	2150EST			0	0	?	?	Hail(0.75)		
	<p>Some of the most powerful thunderstorms in several years developed in the Piedmont and moved through much of central North Carolina during this Saturday afternoon and evening. Three types of severe thunderstorms were noted in the state. Rather "typical" summer pulse severe storms were found in the coastal plain counties of Columbus and Robeson, and in Pender county. These storms blew down trees and produced some large hail. The highest winds and most damage from this set of storms was in Columbus county. At Chadbourn the roof was blown off of a business, a mobile home was destroyed, and other structures were damaged by falling trees. Similar but less extensive damage was reported at Whiteville and Lake Waccamaw. 10,000 customers were without power in Columbus county. In the southern Piedmont, several monster thunderstorms developed during mid afternoon and produced an enormous amount of giant hail. Many people reported baseball or tennis ball size hail, and there was extensive damage, especially in Stanly county. Hail reportedly fell through some roofs, knocked vents off homes, and broke numerous windows and windshields. The hail caused heavy damage to a number of vehicles in the area. Two storms seemed to track from the south central part of Stanly county, and moved slowly to the eastern border around Lake Tillery. One location reported baseball size hail off and on for nearly one hour. Surrounding counties reported similar hail and the same types of damage, although it was not as extensive. The third type of storm developed in Davidson county and moved east southeast through the Piedmont and Sandhills. This storm was a steady state storm and probably near tornadic. Over 5000 customers were without power for most of the night in the Lexington area where the storm began. Numerous large trees were blown down and there was some structural damage. The storm caused a lot of damage in Randolph county as it took nearly an hour to move from west to east. Mostly tree damage was reported in the southwestern part of the county, but worse damage became common in the Asheboro area where numerous trees, power lines, and outbuildings were damaged. Roofs were blown off of a couple of structures. At Tabernacle, 10 miles east of Asheboro, a roof was blown off a manufacturing plant, and many trees and power lines were blown down. The storm did not lose any strength as it began a more southerly track. Numerous giant trees were blown down and some snapped off near High Falls in extreme northern Moore county and southern Chatham county. Many homes suffered extensive damage from falling trees. Two homes were destroyed in the Vass and Cameron areas of Moore county, and at least 8 others suffered heavy damage. Large hail accompanied the storm along its track. It moved along the Moore county border with Lee and Harnett counties and caused some damage there, although not nearly as severe. The storm maintained strength as it moved into Cumberland county. At Pope AFB winds reached 50 knots, and in neighboring Spring Lake there was a lot of damage to trees and power lines. Trees fell onto cars and houses across the northern part of Cumberland. Hardest hit areas were near Methodist College and in northeast Fayetteville. This was the last severe weather reported from the storm although it persisted until it moved off the coast later in the night.</p>										
Stanly Co, Pine Grove Community	31	1500EST			0	0	3	0	TSTM Winds		
	<p>A severe thunderstorm moved through the area tearing roofing off of barns and uprooting trees. One home owner reported at least 12 trees down.</p>										
32 NORTH DAKOTA											
McIntosh Co. 155W Kulin	01	0000CST	Short 5-15		0	0	4	?	Tornado (F0)		
	<p>A brief tornado touchdown knocked down trees and damaged some farm buildings.</p>										
Sargent Co. 5E Gwinner	01	0052CST	Short 5-15		0	0	0	0	Tornado (F0)		
	<p>A tornado briefly touched down and caused no reported damage.</p>										
Richland Co Mooretown	01	0200CST			0	0	0	0	Tstm. Wind G56		
	<p>Wind gusts to 65 mph were reported at a weigh station.</p>										
Ransom Co 6E Sheldon	02	2055CST			0	0	0	0	Hail (0.75)		
McIntosh Co 35E Wishek	05	1546CST			0	0	0	0	Hail (0.75)		
McIntosh Co 2S Lehr	05	1603CST			0	0	0	0	Hail (0.75)		
NORTH DAKOTA											
Ramsey Co Devils Lake	05	1700CST			0	0	0	0	Hail (1.75)		
Stutsman Co Jamestown	05	1704CST 1706CST			0	0	4	4	Hail (1.75) Tstm. Wind G50		
	<p>Golfball-sized hail occurred at the Jamestown airport at 1704CST. A wind gust to 58 mph occurred at the airport at 1706CST. The hail and winds caused some damage in the City of Jamestown.</p>										
Barnes Co Rogers	05	1720CST			0	0	0	0	Hail (3.00)		
	<p>The largest hailstones struck seldom, and little damage was done.</p>										
Dickey Co 5S Merricourt	05	1720CST			0	0	0	0	Hail (0.75)		
Ramsey Co Devils Lake	05	1727CST			0	0	0	0	Hail (1.25)		
Sceele and Barnes Cos	05	1750CST			0	0	0	0	Hail (1.75) Tstm. Wind G52		
	<p>Golfball-sized hail and wind gusts to 60 mph were reported at Luverne, in Steele County, and 2 miles south of Luverne, in Barnes County.</p>										
Cavalier Co 20NW Langdon	05	1755CST			0	0	0	0	Hail (1.75)		
Nelson Co. Mapes	05	1800CST	Short 5-15		0	0	4	4	Tornado (F0)		
	<p>A tornado briefly touched down and damaged some farm machinery.</p>										
Nelson Co. 2W Petersburg	05	1800CST	Short 5-15		0	0	0	0	Tornado (F0)		
	<p>A tornado briefly touched down.</p>										
Nelson Co Michigan	05	1810CST							Funnel Cloud		
Nelson Co 10N McVillie	05	1825CST			0	0	4	4	Hail (1.50)		
Grand Forks Co 8SW Grand Forks	05	1835CST	Short 5-15		0	0	0	0	Tornado (F0)		
	<p>A brief tornado touched down near the town of Emerald.</p>										
Steele Co Hope	05	1837CST			0	0	0	0	Hail (1.75)		
Grand Forks Co 8S Emerald	05	1842CST							Funnel Cloud		
Grand Forks Co Grand Forks	05	1859CST			0	0	0	0	Hail (1.75)		
Nelson Co 8S Michigan	05	1900CST			0	0	4	4	Hail (1.50)		
Grand Forks Co Grand Forks	05	1910CST							Funnel Cloud		
Grand Forks Co 2S Larimore	05	1925CST			0	0	0	0	Hail (1.75)		
Grand Forks Co Northwood	05	1935CST			0	0	5	5	Hail (1.75)		
	<p>The hail damaged cropland to the east and southeast of Northwood.</p>										
Steele Co 10E Hope	05	1940CST			0	0	0	0	Hail (0.75)		
Nelson Co 10NNE Aneta	05	1945CST			0	0	4	4	Hail (1.00)		
Burke Co 12SW Bowbells	10	1705CST			0	0	0	0	Hail (0.75)		
Ward Co 2SW Kenmare	10	1734CST							Funnel Cloud		
Cavalier Co Olga	11	0940CST			0	0	4	0	Lightning		
	<p>Lightning struck a church steeple causing a fire within the church.</p>										
Mountrail Co Newtown	13	1500CST			0	0	4	0	Lightning		
	<p>Lightning struck and burned a mobile home.</p>										

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 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	
— NORTH DAKOTA									
Ward Co Minot	14	Morning and Afternoon			0	0	6	6	Tstm. Heavy Rain Lightning
		<p>A series of thunderstorms progressed over the City of Minot, dropping up to six inches of rain. The Minot airport reported 5.73 inches of rain. The heavy rains were highly localized. At the Minot Air Force Base, 15 miles north of the airport, only 0.84 inch was reported.</p> <p>The rain flooded city streets and underpasses, stalling cars and sweeping some off the road. Other parked cars floated over the streets. Many basements were flooded and a few caved in. Sewers were backed up and some streets were washed out.</p> <p>In addition, lightning strikes caused power outages and damaged a few homes in Minot and outlying areas.</p> <p>Torrential rains also occurred over parts of other counties in west central and north central North Dakota. Amounts ranged from 3 to over 7 inches of rain in some areas.</p> <p>The rains left crops floating in standing water, postponing harvest for several days.</p>							
Dunn Co 10X Dickinson	14	1250CST							Funnel Cloud
Ward Co 5W Minot	14	1304CST							Funnel Cloud
Ward Co 15SSW Lansford	14	1321CST							Funnel Cloud
Rolette Co Belcourt	14	1350CST							Funnel Cloud
Richland Co. 10W Wahpeton	15	1445CST	Short	5-15	0	0	0	0	Tornado (F0)
		A tornado briefly touched down and caused no reported damage.							
Cass Co 1E Gardner	15	1602CST			0	0	0	0	Hail (1.75)
Barnes Co 1S Valley City	15	1645CST			0	0	0	0	Hail (1.00)
Cass Co. 1N West Fargo	17	1830CST	Short	5-15	0	0	0	0	Tornado (F0)
		A tornado was sighted by an off duty NWS employee and three trained spotters. No damage was reported.							
Cass Co Fargo	17	1835CST 1838CST			0	0	0	0	Tstm. Wind G55 Hail (1.75)
		Wind gusts to 64 mph were reported in the City of Fargo at 1835CST. Golfball-sized hail was reported in the City at 1838CST.							
Bottineau Co 5NW Weathope	20	2032CST							Funnel Cloud
Rolette Co St. John	20	2243CST			0	0	0	0	Hail (1.75)
ND2006- Central North Dakota	21	Early Morning			0	0	4	0	High Winds
		<p>Strong winds, occurring with heavy rain showers, caused damage at Strawberry Lake. The winds uprooted trees, drove branches into cabins, and upset boat docks.</p> <p>About one and a half inches of rain occurred with the winds.</p> <p>This weather was highly localized, affecting only the immediate Strawberry Lake area, in northeast McLean County.</p>							
33 OHIO									
Lake County	02	1000 EST	--	---	0	1	0	0	Lightning
		A 16 year-old boy was severely injured when struck by lightning.							
Ashtabula County	02	1400 EST	--	---	0	0	4	0	Thunderstorm Wind
		A thunderstorm downed many trees, especially in Conneaut.							
Richland County	02	1515 EST	--	---	0	0	4	0	Thunderstorm Wind Hail (.75)
		A thunderstorm felled trees in Ontario and also dropped large hail on that town.							
— OHIO									
Lorain County	02	1545 EST	--	---	0	0	4	0	Thunderstorm Wind
		A thunderstorm that produced winds of 60 mph downed trees in Wellington.							
Medina County	02	1600 EST	--	---	0	0	4	0	Thunderstorm Wind
		A thunderstorm blew down trees about 3 miles northwest of the city of Medina.							
Trumbull County	02	1630 EST	--	---	0	0	4	0	Thunderstorm Wind
		A thunderstorm blew over trees across the county.							
Geauga County	02	1645 EST	--	---	0	1	0	0	Lightning
		A 44 year-old man was severely injured when lightning struck him while he was playing golf.							
Portage County	02	1650 EST	--	---	0	0	4	0	Thunderstorm Wind
		A thunderstorm felled trees near Mantua.							
Williams County	02	1700 EST	--	---	0	0	4	0	Thunderstorm Wind
		A thunderstorm downed several trees in Bryan.							
Mahoning County	02	1710 EST	--	---	0	0	4	0	Thunderstorm Wind
		A thunderstorm knocked over trees in Austintown.							
Trumbull County	02	1720 EST	--	---	0	0	4	0	Thunderstorm Wind
		A thunderstorm blew over several trees in Leavittsburg.							
Trumbull County	02	1730 EST	--	---	0	0	4	0	Thunderstorm Wind
		Numerous trees were felled by a thunderstorm in Hubbard, causing widespread power outages.							
Lake County	02	1800 EST	--	---	0	0	4	0	Thunderstorm Wind
		A thunderstorm in Mentor produced winds of 60 mph and downed several trees.							
Lucas County	02	1812 EST	--	---	0	0	4	0	Thunderstorm Wind
		A thunderstorm in the northern part of Toledo produced winds of up to 80 mph, felling numerous trees.							
Cuyahoga County	02	1820 EST	--	---	0	0	4	0	Thunderstorm Wind
		A thunderstorm blew down trees at several locations in the county. The worst damage was in Pepper Pike.							
Erie County	02	1840 EST	--	---	0	0	4	0	Thunderstorm Wind
		A thunderstorm toppled trees at Huron and several other locations along Lake Erie's shoreline.							
Ottawa County	02	1845 EST	--	---	0	0	4	0	Thunderstorm Wind
		Winds from a thunderstorm blew down trees at scattered locations in the county.							
Putnam County	02	1846 EST	--	---	0	0	4	0	Thunderstorm Wind
		A thunderstorm felled several trees in Continental. Two buildings were deroofed near Glandorf.							
Seneca County	02	1847 EST	--	---	0	0	4	0	Thunderstorm Wind
		A thunderstorm downed trees at Bettsville and several other locations in the county.							
Erie County	02	1857 EST	--	---	0	0	0	0	Waterspout
		A large waterspout just offshore about 1 mile east of Huron caused no damage, but excited considerable comment.							
Sandusky County	02	1900 EST	--	---	0	0	4	0	Thunderstorm Wind
		A thunderstorm blew over trees in Fremont and Burgoon. A tent blew down in Clyde, briefly trapping 150 attendees of a revival meeting.							
Seneca County	02	1900 EST	--	---	0	0	4	0	Thunderstorm Wind
		A thunderstorm toppled trees in Fort Seneca.							
Van Wert County	02	1900 EST	--	---	0	0	4	0	Thunderstorm Wind
		A thunderstorm downed trees at several locations in the county. A gymnasium under construction in Conroy suffered severe damage. Several new trucks in Van Wert were damaged when a tree fell on them.							

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1987

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					KILLED	INJURED	PROPERTY	CROPS		
OHIO										
Erie County	02	1910 EST	--	---	0	0	4	0	Thunderstorm Wind	A thunderstorm felled trees in both Vermilion and Milan.
Lorain County	02	1910 EST	--	---	0	0	4	0	Thunderstorm Wind	A thunderstorm blew over trees at scattered locations in the county. Damage was especially bad in Amherst where winds of 70 mph were observed.
Cuyahoga County	02	1920 EST	--	---	0	0	4	0	Thunderstorm Wind	A thunderstorm toppled trees in Lakewood and Parma. Winds of up to 65 mph were observed.
Portage County	02	1925 EST	--	---	0	0	4	0	Thunderstorm Wind	A thunderstorm downed trees in Ravenna and Brimfield.
Trumbull County	02	1929 EST	--	---	0	0	3	0	Hail (.75)	Large Hail fell on Warren.
Huron County	02	1935 EST	--	---	0	0	4	?	Thunderstorm Wind	A thunderstorm felled both trees and power lines in Willard and New London, as well as several other locations. Many corn fields were flattened.
Lorain County	02	1940 EST	--	---	0	0	4	0	Thunderstorm Wind	A thunderstorm produced winds of 60 mph and blew down trees in the Grafton area.
Summit County	02	2007 EST	--	---	0	0	4	0	Thunderstorm Wind	A thunderstorm toppled numerous trees in the county.
Wayne County	02	2016 EST	--	---	0	0	4	0	Thunderstorm Wind	A thunderstorm downed trees at several locations. Winds reached 70 mph in Orrville.
Hardin County	02	2017 EST	--	---	0	0	4	0	Thunderstorm Wind	A thunderstorm blew over trees in Ada and Kenton.
Stark County	02	2020 EST	--	---	0	0	4	0	Thunderstorm Wind	Numerous trees across the county were downed by a thunderstorm.
Logan County	02	2030 EST	--	---	0	0	4	0	Thunderstorm Wind	A thunderstorm downed trees at several locations. A barn was destroyed near West Liberty. Several other buildings were damaged.
Marion County	02	2030 EST	--	---	0	0	4	0	Thunderstorm Wind	A thunderstorm blew over trees near Waldo.
Richland County	02	2049 EST	--	---	0	0	4	0	Thunderstorm Wind	Winds of 68 mph were observed at the Mansfield airport. A garage was destroyed and a barn deroofed near Shelby.
Delaware County	02	2100 EST	--	---	0	0	4	0	Thunderstorm Wind	A thunderstorm toppled several trees in the southern part of the county.
Holmes County	02	2100 EST	--	---	0	0	4	0	Thunderstorm Wind	Trees were blown over by a thunderstorm in Holmesville.
Ashland County	02	2115 EST	--	---	0	0	4	0	Thunderstorm Wind	A thunderstorm toppled several trees about 3 miles south of Ashland. Trees were also downed at several locations in the county.
Morrow County	02	2123 EST	--	---	0	0	4	0	Thunderstorm Wind	A thunderstorm downed trees in the western part of the county.
Allen County	02	2145 EST	--	---	0	0	4	0	Thunderstorm Wind	A thunderstorm felled trees at many locations in the county. An apartment building was deroofed in Lima.
OHIO										
Franklin County	02	2145 EST	--	---	0	0	4	0	Thunderstorm Wind	A thunderstorm blew down trees in the northern part of the county.
Mercer County	02	2230 EST	--	---	0	0	4	0	Thunderstorm Wind	A thunderstorm downed trees and poles, and deroofed a store. The worst damage was near Celina.
Auglaize County	02	2245 EST	--	---	0	0	4	0	Thunderstorm Wind	A thunderstorm felled both trees and poles in Saint Marys.
Union County	02	2304 EST	--	---	0	0	4	0	Thunderstorm Wind	A thunderstorm resulted in winds of 60 mph and downed trees in the southern part of the county.
Logan County	02	2315 EST	--	---	0	0	4	0	Thunderstorm Wind	A thunderstorm toppled trees in Rushsylvania.
Franklin County	02	2345 EST	--	---	0	0	5	0	Thunderstorm Wind	A thunderstorm blew over hundreds of trees in the Grandview Heights Marble Cliff-area.
Hamilton County	03	0200 EST	--	---	0	0	4	0	Thunderstorm Wind	A thunderstorm blew over a baseball dugout near Harrison.
Harrison County	09	1615 EST	--	---	0	0	4	0	Thunderstorm Wind	A thunderstorm toppled trees between Jewett and Scio.
Columbiana County	09	1625 EST	1.5	40	0	0	4	0	Tornado (F1)	A tornado set down about 5 miles west of Salem. One mobile home was destroyed and another damaged. Damage was otherwise minor since the storm struck in a rural area.
Jefferson County	09	1820 EST	--	---	0	0	4	0	Thunderstorm Wind	A thunderstorm downed several trees in the Steubenville area.
Lake County	22	0330 EST	--	---	0	0	4	0	Thunderstorm Wind	A thunderstorm felled numerous trees in Mentor.
Greene County	22	1500 EST	--	---	0	0	4	0	Thunderstorm Wind	A thunderstorm blew down some trees near Bowersville.
Montgomery County	22	1500 EST	--	---	0	3	4	0	Thunderstorm Wind	A thunderstorm blew over a concession stand and a tent at a carnival southwest of Dayton, causing minor injuries to 3 people.
Scioto County	22	1800 EST	--	---	0	0	4	0	Thunderstorm Wind	A thunderstorm toppled a number of trees in the Portsmouth area causing significant power outages.
34 OKLAHOMA										
Bryan County	12	1200CST			0	0	5	?	Twind (61)	
3 S Calera	12	1640CST			0	0	4	?	Twind (61)	
Woods County										
2 N Alva										
										Strong winds destroyed 3 mobile homes and damaged two others south of Calera. A shed was also damaged as well as power lines and trees blown down. Another storm destroyed a mobile home, a shed, and a fifth wheel trailer north of Alva. Total damage was estimated at \$75,000.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1987

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					KILLED	INJURED	PROPERTY	CROPS	

OKLAHOMA

Lincoln County Near Stroud	13	1410CST			0	0	3	?	Twind (52)
Muskogee County 1 S Haskell	13	1800CST			0	0	4	?	Twind (61)
Oklahoma County 2 W Jones	13	2015CST			0	0	?	?	Twind (52)
Grady County 6 W Newcastle	13	2020CST			0	0	?	?	Twind (52)
Oklahoma County S Oklahoma City	13	2104CST			0	0	?	?	Twind (52)
Oklahoma County S Oklahoma City	13	2127CST			0	0	?	?	Twind (52)
Thunderstorms produced 60 to 70 mph winds downing trees and powerlines. A mobile home was destroyed west of Newcastle, an airplane was damaged south of Haskell, and a barn destroyed near Stroud.									
Harmon County McQueen	14	1740CST			0	0	?	?	Twind (65)
Kiowa County Roosevelt	14	1850CST			0	0	4	?	Twind (61)
Thunderstorms produced strong winds which uprooted trees, destroyed outbuildings, and downed power poles and lines. Several carports were destroyed in Roosevelt.									
Cotton County 7 NW Walters	16	1615CST			0	0	?	?	Twind (61)
Cotton County 7 NW Walters	16	1615CST			0	0	?	?	Hail (0.88)
McClain County Purcell	16	1700CST			0	0	?	?	Twind (65)
Cleveland County Noble	16	1700CST			0	0	?	?	Twind (52)
Pottawatomie County 5 S McCloud	16	1705CST			0	0	?	?	Twind (61)
Pottawatomie County 3 NW Shawnee	16	1722CST			0	0	?	?	Twind (52)
Cleveland County 8 E Norman	16	1735CST			0	0	?	?	Twind (61)
Cleveland County 8 E Norman	16	1735CST			0	0	?	?	Hail (0.75)
Pottawatomie County Dale	16	1755CST			0	0	?	?	Hail (1.00)
Cleveland County 6 S Stella	16	1800CST			0	0	?	?	Twind (52)
Pottawatomie County Shawnee	16	1810CST			0	0	?	?	Twind (61)
Creek County Bristow Airport	16	1830CST			0	0	5	?	Twind (61)
Tulsa County Bixby	16	1845CST			0	0	?	?	Twind (52)
Wagoner County Covets	16	1845CST			0	0	?	?	Twind (52)
A line of thunderstorms produced small hail and strong winds across portions of the state. The winds downed trees and powerlines and destroyed several outbuildings. Two hangars and two airplanes were damaged at Bristow airport. 70 mph winds hit Lake Thunderbird, east of Norman, causing 6 boats to be lost and causing several people to be rescued from the water.									
Comanche County	17	0700CST			0	0	4	?	Twind (52)
Chattanooga	17	0710CST			0	0	4	?	Twind (52)
Stephens County Duncan	17	1515CST			0	0	?	?	Twind (54)
Jefferson County 5 S Ringling	17	1530CST			0	0	?	?	Twind (52)
Carter County 4 E Milo	17	1545CST			0	0	?	?	Hail (0.75)
Murray County 3 W Jollyville	17	1545CST			0	0	?	?	Twind (52)
Murray County 3 W Jollyville	17	1630CST			0	0	?	?	Hail (0.88)
Ellis County Shattuck	17	1630CST			0	0	?	?	Twind (52)
Johnston County 3 S Troy	17	1640CST			0	0	?	?	Twind (52)
Johnston County Tishomingo	17	1630CST			0	0	?	?	Twind (58)
Marshall County Madill	17	1655CST			0	0	?	?	Twind (52)
Greeley County 7 NW Beaman	17	1735CST			0	0	?	?	Twind (52)
Woodward County 12 SW Woodward	17	1745CST			0	0	?	?	Hail (0.75)
Kay County 1 S Eddy	17	1745CST			0	0	?	?	Twind (52)
Ellis County 6 N Arnett	17	1745CST			0	0	?	?	Twind (52)
Thunderstorms produced winds up to 70 mph and scattered hail up to the size of nickels across portions of southern and western Oklahoma. The winds downed trees and power poles. The wind also took sections of roof off of buildings in Chattanooga and in Duncan.									

OKLAHOMA

Ottawa County Commerce and Miami	19	2048CST			0	0	4	?	Twind (61)	
A thunderstorm produced very strong winds across Ottawa county; uprooting trees, downing powerlines, and blowing out windows. A carport was also destroyed and several roofs damaged in Miami.										
Alfalfa County Burlington	22	1810CST			0	0	?	?	Hail (0.88)	
Alfalfa County Burlington	22	1830CST			0	0	?	?	Hail (0.88)	
Nickel size hail fell two different times at Burlington.										
Grady County Tuttle	24	1755CST			0	0	?	?	Hail (0.75)	
Grady County E Edge of Tuttle	24	1810CST			0	0	?	?	Twind (70)	
Grady County E Edge of Tuttle	24	1810CST			0	0	?	?	Hail (0.75)	
Canadian County 7 WSW Yukon	24	1830CST			0	0	?	?	Twind (52)	
Lincoln County 2 W Stroud	24	2022CST			0	0	?	?	Hail (0.75)	
Thunderstorms produced winds up to 80 mph and 3/4 inch size hail across central sections. The winds downed large trees and powerlines and destroyed a large metal batting cage near Tuttle.										
Rogers County 5 SE Claremore	26	1420CST			0	0	?	?	Hail (1.75)	
Tillman County Frederick	26	1508CST			0	0	?	?	Twind (70)	
Tillman County Tipton	26	1522CST			0	0	?	?	Twind (54)	
Cherokee County Hubert	26	1530CST			0	0	?	?	Hail (1.75)	
McClain County Byars	26	1557CST			0	0	?	?	Twind (52)	
McIntosh County 5 SW Checotah	26	1600CST			0	0	?	?	Twind (52)	
Grady County Rush Springs	26	1612CST			0	0	5	?	Hail (1.75)	
Grady County Chickasha	26	1630CST			0	0	?	?	Twind (52)	
Grady County 7 S Tuttle	26	1655CST			0	0	?	?	Twind (56)	
McClain County 2 E Goldsby	26	1656CST			0	0	?	?	Twind (52)	
Seminole County Seminole	26	1700CST			0	1	?	?	Lightning	
Cleveland County 4 N Norman	26	1707CST			0	0	?	?	Twind (61)	
Oklahoma County 6 SW Midwest City	26	1725CST			0	0	?	?	Twind (52)	
Okfuskee County Okemah	26	1726CST			0	0	?	?	Hail (1.75)	
Thunderstorms produced strong winds, golfball size hail, and periods of heavy rain across southwest, central, and northeast areas. Frederick received winds of over 80 mph which unroofed several businesses, and did considerable damage to roofs, trees and mobile homes. A nursing home, under construction was leveled. Damage was estimated at \$250,000. Strong winds struck Rush Springs, Alex, and Chickasha in Grady county unroofing an automobile dealership. Other houses and businesses received major damage to roofs and windows. Damage in Rush Springs was estimated at \$100,000. A woman was injured when lightning came through a window of her house.										
35 OREGON										
ORZ 04,05,06, 13	30-	1400-	0	0	0	0	?	8	?	Lightning
Josephine, Jackson Jefferson, Klamath Douglas, Eastern Lane, and Western Deschutes Counties	31	2200 pdt								
Dry thunderstorms formed in the mid afternoon into the evening hours both days over the Siskiyou Mountains of southwestern Oregon, along the southern and central Cascade mountains. Well over 1000 lightning strikes were reported. This produced over 900 lightning caused fires. The fires consumed over 130,000 acres of forest land with the fires continuing throughout the month of September. Over 9000 fire fighters were on the lines at one time. This was the 2nd worst forest fire this century in Oregon, exceeded only by the Tillamook burn in northwest Oregon in the 1920s.										

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED ¹ DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
35 PENNSYLVANIA, Eastern									
Huntingdon County Orbisonia	2	1615 EST			0	0	3	0	TSTM Wind.
									Thunderstorm winds brought down trees and tree limbs. Heavy rain of 2 to 3 inches brought streams in the area to bank full.
Chester County Lionville	5	1700 EST			0	0	4	0	Lightning
									Lightning caused fire in a house resulting in \$10,000 damage.
Lancaster County 1 W Lancaster	9	1805 EST			0	0	3	0	TSTM Winds
									Thunderstorm winds brought down trees and power lines down. They also brought heavy rain and marble size hail.
Chester County 6 SE Honeybrook	9	1901 EST			0	0	2	0	TSTM Winds
2 NW Thorndale	9	1920 EST			0	0	2	0	TSTM Winds
Honeybrook	9	2027 EST			0	0	2	0	TSTM Winds
7 E Honeybrook	9	2048 EST			0	0	2	0	TSTM Winds
2 NW Thorndale	9	2101 EST			0	0	2	0	TSTM Winds
3 E Downingtown	9	2108 EST			0	0	2	0	TSTM Winds
7 WSW									
West Chester	9	2118 EST			0	0	2	0	TSTM Winds
3 SW									
West Chester	9	2120 EST			0	0	2	0	TSTM Winds
									Thunderstorms brought down trees northwest of Thorndale at 8:20PM EDT. Thunderstorm winds brought down power lines in Honeybrook, Southeast of Honeybrook, East of Honeybrook, East of Downingtown, West southwest of West Chester and Southwest of West Chester. Power lines were also downed northwest of Thorndale around 10:01PM EDT.
Delaware County Swathmore	9	2125 EST			0	0	3	0	TSTM Winds
Darby	9	2141 EST			0	0	2	0	TSTM Winds
									Thunderstorm winds brought down trees in Swathmore, blocking some roads. Power lines were downed in Darby.
Montgomery County Roslyn	9	2130 EST			0	0	5	0	Lightning
									Lightning caused a fire in a house causing \$50,000 damage.
Philadelphia County Southwest	9	2130 EST			0	0	6	0	Lightning
Philadelphia									Lightning struck a large storage tank in an oil refinery. The contents of the tank were set on fire and burned for several days with a 2 million dollar loss.
Cumberland County Boiling Springs	17	2000 EST			0	0	3	0	TSTM Wind
									Thunderstorm winds downed trees and took siding off a couple houses. At least one small shed was smashed. The damage area was 100 to 200 yards wide and 1/4 to 1/2 mile long. Heavy rain of 1.6 inches fell in less than 15 minutes.
36 PENNSYLVANIA, Western									
Erie County	02	1430 EST			0	0	0	0	Thunderstorm Wind
									Large trees and power lines down in western part of county.
Crawford County Saegerstown, 6 N	02	1430 EST			0	0	0	0	Thunderstorm Wind
Meadville, Linesville,									Trees down, powerlines down in Saegerstown, Linesville, and Townville.
12 W Meadville, Town-									
ville, 12 E Meadville									
Lawrence County	02	1730 EST			0	0	0	0	Thunderstorm Wind
									Large tree limbs and power lines down.
— PENNSYLVANIA, Western									
Erie County Edinboro, 18 S Erie	02	1800 EST			0	0	0	0	Thunderstorm Wind
									Large trees down in Edinboro.
Crawford County	02	1800 EST			0	0	0	0	Thunderstorm Wind
									Trees down, wind reported in excess of 60 mph.
Armstrong County Cowanshannock, 11 E	02	1814 EST			0	0	0	0	Thunderstorm Wind
Kittanning									Large tree down in Cowanshannock.
Erie County Wesleyville, 4 E Erie	02	1822 EST			0	0	0	0	Thunderstorm Wind
									Sixty mph wind reported at Wesleyville.
Westmoreland County Jeannette, 5 NW Greens-	02	1900 EST			0	0	4	0	Flood
burg									Brick floor of building lifted by flood water; basement and road flooding
Washington County Donora, 20 E Washing-	02	2000 EST			0	0	0	0	Thunderstorm Wind
ton									Large trees down in Donora.
Allegheny County Elizabeth, 15 SE	02	2100 EST			0	0	0	0	Thunderstorm Wind
Pittsburgh									Large trees down in Elizabeth.
Westmoreland County Monessen, 20 SW	02	2100 EST			0	0	0	0	Thunderstorm Wind
Greensburg									Large trees down in Monessen.
Allegheny County	02	2200 EST			0	0	0	0	Flood
									Road flooding eastern part of county.
Crawford County	02	2200 EST			0	0	0	0	Flood
									Road flooding.
Venango County	02	2200 EST			0	0	0	0	Flood
									Road flooding.
Armstrong County	02	2200 EST			0	0	0	0	Flood
									Road flooding.
Washington County, Washington	09	1215-1217 ? EST	15		0	0	5	0	Tornado(F1)
									A tornado touched down briefly through several blocks. Damage was done to several roofs, and trees were downed.
Cambria County Westmont, 8 NW Johns-	09	1454 EST			0	0	4	0	Thunderstorm Wind
town									Trees down; roof off house from straight line winds.
Lawrence County, Harlansburg (8 E New	09	1615-1617 ? EST	10		0	0	0	0	Tornado(F0)
Castle)									A tornado touched down briefly. Little damage occurred.
Indiana County Cherry Hill, 5 E Indiana	09	1918 EST			0	0	4	0	Thunderstorm Wind
									Roof off mobile home; camper overturned.
Mercer County Leesburg, 6 S Mercer	22	0515 EST			0	0	4	0	Lightning
									Lightning induced fire; barn destroyed.
Fayette County Masontown, 10 W Union-	22	1400 EST			0	2	5	0	Thunderstorm Wind
town									Mobile home overturned and rolled 40 feet. Two minor injuries. Garage wall knocked down; section of church roof blown off trees down.
37 RHODE ISLAND ————— NONE REPORTED									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1987

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					KILLED	INJURED	PROPERTY	CROPS	
38 SOUTH CAROLINA									
Chesterfield Co, Bennettsville	01	1730EST			0	0	2	0	Lightning
									Lightning disrupted power to hospital in Bennettsville.
Florence Co, Florence	01	1400EST			0	0	2	0	Urban Flooding
	01	1400EST			0	0	2	0	TSTM Wind
									Several streets flooded by heavy rains in Florence. Wind blew down several trees near Florence Mall.
Aiken Co, Aiken	01	2130EST			0	0	4	0	Lightning
									Lightning caused scattered damage in Aiken. Extensive fire damage occurred at the Raven Company following a lightning strike.
Aiken Co, Aiken to Monetta	02	2100EST			0	0	3	0	TSTM Winds
									Winds broke limbs, disrupted power and caused other minor damage from 5 miles north of Aiken to Monetta.
Oconee Co, Seneca	02	1423EST			0	0	3	0	Lightning
									Lightning set a home afire in Seneca, also heavily damaged a garage on Shilo Road near Seneca.
Oconee Co, Seneca-Mountain Rest	02	1700EST			0	0	3	3	Hail (.75)
									Large hail reported between Seneca and Mountain Rest.
Beaufort Co, Beaufort	02	1300EST			0	0	4	0	TSTM Wind
									Several trees were blown on power lines in Beaufort causing disruption of power.
Edgefield Co, Trenton	02	1945EST			0	0	4	0	TSTM Wind
									In Trenton winds destroyed two mobile homes and damaged several others. Several cars were damaged. A number of trees were blown down.
Laurens Co, SSE Gray Court	03	1530EST			1	1	0	0	Lightning
									Lightning struck a tree killing one and injuring another of a party of four who sought shelter under a tree. The person killed was a male, 27 years old, from Gray Court. Location of incident was at a ball park on the Laurens Road three miles SE of Gray Court.
Clarendon Co, Turbeville	06	1540EST			0	0	2	0	TSTM Wind
									Trees down in Turbeville.
Orangeburg Co, Orangeburg vicinity	06	1615EST			0	0	0	2	TSTM Wind
									Trees down across SC 267 and US 301 in Orangeburg County.
Horry Co, Myrtle Beach	06	1500EST			0	0	3	0	TSTM Wind (40 KTS)
									Broken limbs on power lines disrupted power to 400 customers. Minor wind damage in other coastal areas.
Spartanburg Co, Pauline	06	2100EST			0	0	2	0	TSTM Wind
	06	2130EST			0	0	2	0	Urban Flooding
									Wind blew a tree across a mobile home. Also some powerlines down, as well as minor urban flooding, was reported near Pacolet.
Clarendon Co, 5 W Manning to Manning vicinity	06	1524EST			0	0	3	0	Lightning
	06	1523EST			0	0	3	0	TSTM Wind
	06	1600EST			0	0	2	0	Urban Flooding
									Winds blew trees down 5 miles west of Manning. Lightning set house afire in Manning. Street flooding was reported with minor flooding of one store.
Chesterfield Co, Cheraw	06	0005EST			0	0	3	0	TSTM Wind
	06	0010EST			0	0	2	0	Lightning
									Thunderstorm winds blew down limbs and caused minor roof and other damage in Cheraw, South Carolina. Two houses struck by lightning.
Clarendon Co, 1E Manning	07	1415EST			0	0	0	2	TSTM Wind
									Trees down in Wilson Forest area east of Manning.
Barnwell Co, Barnwell	10	1345EST			0	0	4	0	Lightning
									Lightning caused one house fire and damaged another in Galilee Estate in Barnwell.
— SOUTH CAROLINA									
Lee Co, Wisacky-Elliott	11	1600EST			0	0	4	2	TSTM Wind
									Three mobile homes damaged, several trees uprooted, several barn roofs damaged in Wisacky-Elliott Community. Thunderstorm winds caused minor damage across Florence and Darlington counties.
Laurens Co, Laurens	11	1600EST			0	0	2	2	TSTM Winds
	11	1600EST			0	0	3	0	Lightning
									Lightning damaged the Ball-Incon Glass Company. Also a number of trees uprooted including one 110 inches in diameter.
Lee Co, Bishopville	19	1330EST			0	0	2	0	TSTM Wind
	19	1330EST			0	0	2	0	Lightning
									Several trees down and lightning damage to telephone system.
Chesterfield Co, Cheraw	21	1452EST			0	0	3	0	TSTM Wind
									Several trees were blown down on Kershaw street. Wind gusts to 89 mph reported at Cheraw Airport. Several aircraft and a aircraft hangar were damaged.
Orangeburg Co, Orangeburg	23	1700EST			0	1	5	1	TSTM Wind
	23	1700EST			0	0	2	0	Hail (.75)
									Thunderstorm moved from 8 miles northwest of Orangeburg southeast into edge of Orangeburg. Four miles northwest of Orangeburg 2 mobile homes destroyed and 3 others heavily damaged. The tie downs on two mobile homes were pulled out of the ground. One occupant was "shaken up" but not seriously injured. On Tally Canley road one mile northwest of Orangeburg a patio roof was blown over a house. Hail observed at 411 Louis Drive in Orangeburg.
Laurens Co, Clinton	23	1540			0	0	2	0	TSTM Wind
									Several trees blown down in Clinton
Marion Co, Mullins	29	1530EST			0	0	3	0	Lightning
									Lightning set Cedar Creek Baptist Church afire.
Berkeley Co, Hannahan	29	1453EST			0	0	2	0	Hail (0.75)
									Large hail reported in Hannahan.
Charleston Co, 5 miles NE Airport	29	1430EST			0	0	2	2	Hail (0.75)
									Large hail reported northeast of Airport.
Florence Co, City and Olanta	29	1545EST			0	0	2	0	TSTM Winds
									Trees and power lines down.
Kershaw Co, Camden	29	1635EST			0	0	3	0	TSTM Winds
									Numerous trees down.
Chesterfield Co, Chesterfield	29	1435EST			0	0	2	2	Hail (0.75)
	29	1435EST			0	0	2	0	TSTM Winds
									Several trees down and 3/4 inch hail reported.
Lexington Co, Cayce	30	1900EST			0	0	4	0	Hail (0.75)
									Hail caused damage to several cars in the City of Cayce.
Beaufort Co, Lady's Island	30	1850EST			0	0	2	0	Lightning
	30	1850EST			0	0	3	0	TSTM Winds (40 MPH)
									Thunderstorm winds interrupted service to 30 customers. Lightning also caused minor damage.
Sumter Co, Sumter	30	1930EST			0	0	3	0	TSTM Winds
									Trees and limbs down, brick fence down, several car windows crushed.
Dorchester Co, Summerville	30	0400EST			0	0	3	0	Lightning
									Lightning hit Summerville Fire Department's tower damaging communication equipment. Other minor damage reported.
Aiken Co, Graniteville 6W Aiken	30	1700EST			0	0	3	2	Hail (0.75)
									Large hail in Graniteville, 6 W Aiken.
Charleston Co, Charleston and Mount Pleasant	31	PM			0	0	2	0	Urban Flooding
	31	PM			0	1	2	0	TSTM Wind (40 MPH)
									A teenager was struck by falling limb on Poplar Street while running to escape the rain. Power disrupted to 2500 homes in West Ashley and North Bridge areas. Considerable street flooding in Mount Pleasant during late afternoon.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1987

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					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	
— SOUTH CAROLINA											
Richland Co. Horrell Hill Road	31	1615EST			0	2	5	0			Tornado (F1)
	31	1615EST			0	0	2	2			Hail (1.75)
<p>A severe thunderstorm accompanied by a small tornado destroyed 2 mobile homes one mile south of SC 378 on Horrell Hill Road near Horrell Hill. Golfball size hail was also reported.</p>											
— SOUTH DAKOTA											
Edmunds County											
BE Bowdle	05	1635 CST	-	-	0	0	0	0			TSTM Wind (52)
Hosmer	05	1639 CST	-	-	0	0	0	0			Hail (1.75)
10E Hosmer	05	1655 CST	-	-	0	0	0	0			Hail (1.75)
Bowdle	05	1700 CST	-	-	0	0	4	0			Hail (4.50)
<p>Hail broke windows on cars and houses, dented vehicles, and punched holes in roofs.</p>											
Faulk County	05	1724 CST	-	-	0	0	0	0			TSTM Wind (52)
1S Chelsea											
Brown County											
1W Aberdeen	05	1738 CST	-	-	0	0	0	0			TSTM Wind (54)
3W Warner	05	1757 CST	-	-	0	0	0	0			TSTM Wind (52)
Lyman County:											
3W Kennebec	05	1735 to 1750 CST	.1	30	0	0	0	0			Tornado (F0)
7N Kennebec to 5NNE Kennebec	05	1740 to 1800 CST	1.2	80	0	0	5	0			Tornado (F2)
3NW Lyman	05	1744 to 1800 CST	.1	60	0	0	0	0			Tornado (F1)
<p>Three tornadoes occurred in eastern Lyman County within a short period of time. One tornado formed seven miles north of Kennebec and struck three farms, destroying granaries, sheds, small buildings, and car windows. Small animals were killed and power lines were downed. Window screens were pulled from one house and roofs were damaged. No damage was reported with the other tornadoes.</p>											
Brown County	05	1757 CST	-	-	0	0	0	0			TSTM Wind (52)
3W Warner											
Clark County	05	1808 CST	-	-	0	0	0	0			TSTM Wind (50)
30NE Huron											
Lyman County:											
1E Lyman	05	1815 to 1830 CST	Short	20	0	0	0	0			Tornado (F0)
9SE Lyman	05	1835 to 1845 CST	Short	20	0	0	0	0			Tornado (F0)
<p>Two tornadoes occurred briefly, but no damage was reported.</p>											
Beadle County	05	1826 CST	-	-	0	0	0	0			TSTM Wind (66)
Huron	05	1844 CST	-	-	0	0	0	0			TSTM Wind (50)
13SE Huron	05	1845 CST	-	-	0	0	0	0			TSTM Wind (64)
Brown County	05	1845 CST	-	-	0	0	0	0			TSTM Wind (52)
10W Hecla											
Beadle County	05	1852 CST	-	-	0	0	0	0			TSTM Wind (66)
14SE Huron											
Brule County	05	1905 CST	-	-	0	0	0	0			Hail (.75)
Chamberlain	05	1909 CST	-	-	0	0	0	0			TSTM Wind (53)
Brule County	05	1920 CST	-	-	0	0	0	0			Hail (2.75)
Kimball											
Tripp County	05	2000 CST	-	-	0	0	0	0			Hail (1.75)
Hamill											
Hamlin County	05	2030 CST	-	-	0	0	4	0			TSTM Wind (80)
19S Watertown											
<p>Thunderstorm winds destroyed a garage and overturned a utility building. Trees were uprooted and shingles were removed from buildings.</p>											
Davison County	05	2050 CST	-	-	0	0	2	0			TSTM Wind (58)
Mitchell											
Hutchinson County	05	2100 CST	-	-	0	0	0	0			TSTM Wind (58)
20SE Mitchell											
Gregory County	05	2100 CST	-	-	0	0	4	0			TSTM Wind (70)
Herrick	05	2100 CST	-	-	0	0	2	3			Hail (.75)
Bon Homme County	05	2200 CST	-	-	0	0	4	0			TSTM Wind (60)
Springfield											
Yankton County	05	2225 CST	-	-	0	0	0	0			TSTM Wind (52)
Yankton											
Day County	06	0002 CST	-	-	0	0	?	0			TSTM Wind (58)
11E Webster											
<p>Thunderstorm winds damaged docks and boats at Blue Dog Lake.</p>											

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 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	

SOUTH DAKOTA

<p>SOUTH DAKOTA</p> <p>Bully County, 30N Pierre</p> <p>11 2235 to 2245 CST ? ? 0 0 0 0 Tornado (F0)</p> <p>No damage was reported.</p> <p>Brown County 3W Warner Warner</p> <p>15 1350 CST - - 0 0 ? 0 Hail (3.00)</p> <p>15 1400 CST - - 0 0 ? 0 Hail (4.5)</p> <p>Softball size hail broke house and car windows near Warner.</p> <p>Gregory County Burke</p> <p>15 1400 CST - - 0 0 0 0 Hail (.75)</p> <p>Brown and Spink Counties, 1S Mansfield to 5S Warner</p> <p>15 1420 to 1440 CST 5 50 0 0 0 0 Tornado (F1)</p> <p>A tornado occurred near Mansfield and moved northeast, but no damage was reported.</p> <p>Spink County: 1NE Mellette to 2NE Mellette</p> <p>15 1420 to 1430 CST 1 ? 0 0 0 0 Tornado (F0)</p> <p>No damage was reported.</p> <p>Broton</p> <p>15 1440 CST @ 0 0 0 0 0 0 Funnel Cloud</p> <p>Brown County 10SE Aberdeen</p> <p>15 1520 CST - - 0 0 0 0 0 0 TSTM wind (52)</p> <p>Sully County 0Reno Point</p> <p>15 1515 CST - - 0 0 0 0 0 0 Hail (1.75)</p> <p>Day County Andover</p> <p>15 1547 CST - - 0 0 0 0 0 0 Hail (.75)</p> <p>Clark County Woodland 4NW Bradley</p> <p>15 1700 CST - - 0 0 4 0 Lightning</p> <p>15 1700 CST - - 0 0 4 2 TSTM Wind (70)</p> <p>15 1700 CST - - 0 0 0 0 Hail (.75)</p> <p>Lightning struck and burned a barn in Woodland causing \$10,000 property damage. Thunderstorm winds destroyed a barn and heavily damaged another four miles northwest of Bradley. Trees and some crops were also damaged.</p> <p>Charles-Mix Co. Wagner Wagner</p> <p>15 1708 CST - - 0 0 0 0 Hail (2.0)</p> <p>15 1730 CST - - 0 0 3 0 Hail (3.0)</p> <p>Large hail damaged roofs on houses, vehicles and destroyed crops and windows.</p> <p>Hamlin County 15SW Watertown</p> <p>15 1730 CST - - 0 0 0 0 Hail (.75)</p> <p>Codington County Watertown</p> <p>15 1737 CST - - 0 0 0 0 TSTM Wind (53)</p> <p>Bon Homme County 10NW Tyndall</p> <p>15 1738 CST - - 0 0 0 0 Hail (.75)</p> <p>Clark County 1N Willow Lake</p> <p>15 1745 CST - - 0 0 0 0 Hail (.75)</p> <p>Bon Homme County Avon Avon</p> <p>15 1808 CST - - 0 0 0 0 Hail (.75)</p> <p>15 1810 CST - - 0 0 3 0 Lightning</p> <p>Lightning struck a TV antenna on a house and destroyed a TV, several wall sockets and roof rafters.</p> <p>Kingsbury County 40E Huron</p> <p>15 1830 CST - - 0 0 4 0 Hail (1.75)</p> <p>15 1830 CST - - 0 0 2 0 TSTM Wind (60)</p> <p>A severe thunderstorm produced golf ball size hail and strong winds damaging many vehicles, windows and trees at Lake Preston.</p> <p>Bon Homme County Scotland</p> <p>15 1910 CST - - 0 0 0 0 TSTM Wind (52)</p> <p>McCook County Canistota</p> <p>15 1950 CST - - 0 0 0 0 Hail (1.75)</p> <p>Minnehaha County 3S Sioux Falls</p> <p>15 2020 CST - - 0 0 0 0 TSTM Wind (52)</p> <p>Tripp County Colone</p> <p>19 0600 CST - - 0 0 4 0 TSTM Wind (66)</p> <p>Severe thunderstorm winds peeled a roof off a trailer, uprooted trees, and damaged a few buildings causing \$6,000 property damage.</p>	
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SOUTH DAKOTA

<p>SOUTH DAKOTA</p> <p>Gregory County 6N Dallas</p> <p>19 0620 CST - - 0 0 3 0 TSTM Wind (50)</p> <p>0620 CST - - 0 0 0 0 ? Hail (.50)</p> <p>Marble-size hail destroyed a strip of crops about a mile wide. Thunderstorm winds downed tree branches and power lines.</p> <p>Grant and Deuel Counties Strandburg 15W Revillo 6SE Revillo</p> <p>21 1400 CST - - 0 0 0 0 Hail (.75)</p> <p>21 1400 CST - - 0 0 ? 0 Hail (2.75)</p> <p>21 1430 CST - - 0 0 ? 0 Hail (2.75)</p> <p>Thunderstorms produced a hail swath from one mile southwest to six miles southeast of Revillo. House windows and many vehicles were damaged. The hail fell for about a half hour.</p>	
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40 TENNESSEE

<p>40 TENNESSEE</p> <p>Waynesboro, Wayne County</p> <p>01 1510CST 0 0 3 0 Thunderstorm Wind</p> <p>Several trees were downed in Waynesboro and minor property damage occurred with the passage of strong thunderstorm winds. Damage included a downed awning and a retaining wall that was blown over.</p> <p>Carroll County</p> <p>01 1700CST 0 0 3 0 Thunderstorm Wind</p> <p>Numerous trees were uprooted in Carroll County by powerful thunderstorm winds. Area residents sustained minor roof damage to a few homes and the back side of a garage roof was blown off.</p> <p>Giles County</p> <p>02 1500CST 0 0 3 0 Thunderstorm Wind</p> <p>Roof damage occurred to two houses about 2 miles north of Lynnville on Dodson Gap Road. Several trees were also uprooted.</p> <p>Williamson County</p> <p>04 Afternoon 0 0 4 0 Lightning</p> <p>Lightning caused a fire at a barn near Derby Lane. The barn was destroyed.</p> <p>Rhea County</p> <p>04 1300EST 0 0 5 0 Thunderstorm Wind</p> <p>28 homes were damaged in the Orange Mobile Home Park and the Smyrna Lane area in central Rhea County by damaging thunderstorm winds. 19 mobile homes and 5 houses sustained major damage. 6 outbuildings were also damaged.</p> <p>Murfreesboro, Rutherford County</p> <p>04 1100CST 0 0 4 0 Thunderstorm Wind</p> <p>Thunderstorm winds damaged homes, barns and businesses in and near Murfreesboro. One barn had half of its roof ripped off. That debris struck a house nearby. A house under construction collapsed due to the winds in Twin Creek subdivision.</p> <p>Newport, Cocke County</p> <p>05 1600EST 0 0 4 0 Thunderstorm Wind</p> <p>Thunderstorm winds clocked at 100 mph destroyed a dock and buried 15 boats in the debris at Newport Resort marina. The boats sustained minor damage.</p> <p>Athens, McMinn County</p> <p>06 1600EST-1730EST 0 0 4 0 Flash Flood</p> <p>Nearly 5 inches of rain in a one and a half hour period caused Oostanaula Creek to spill over its banks. Low-lying areas of Athens experienced homes filled with water, cars flooded out and impassable streets.</p> <p>Gleason, Weakley</p> <p>10 0200CST 0 0 3 0 Thunderstorm Wind</p> <p>A roof of a business in Gleason was torn off by thunderstorm winds. Water damage was done to the ceilings.</p> <p>Collierville, Shelby</p> <p>10 Afternoon 0 1 0 0 Lightning</p> <p>A Collierville resident was injured when he was knocked cold by an electrical charge as he reached toward the control panel of his television set.</p> <p>Jackson, Madison County</p> <p>17 1440CST 0 0 5 0 Lightning</p> <p>Lightning struck a home in Jackson causing heavy smoke and water damage. The roof also caved in.</p> <p>Mt. Juliet, Wilson County</p> <p>17 Afternoon 0 1 0 0 Lightning</p> <p>Lightning severely injured a teen-age boy while he was on a roller paving a parking lot of a church in Mt. Juliet. The youth's father was knocked to the ground by the strike.</p>	
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STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 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		
— TENNESSEE										
Murfreesboro, Rutherford County	17	Afternoon			0	0	4	0		Thunderstorm Wind
			A large oak tree was felled by thunderstorm winds. Four cars were damaged .. one heavily .. at the parking lot of a bank in Murfreesboro.							
Memphis, Shelby County	27	1820CST			0	0	3	0		Lightning
			Lightning struck a residence in south Memphis causing a fire in the attic. Many utility lines were downed around the city causing numerous power outages.							
Covington, Tipton County	27	Afternoon			0	0	3	0		Lightning
			Lightning struck a residence in Covington doing considerable damage to an air conditioner, television, an inside wall and an outside wall.							
Sumner County	27	1300EST 2300EST			0	0	4	0		Lightning
			Lightning struck a tree at a dairy farm in New Deal during the afternoon killing 15 cows standing underneath it. Around midnight lightning destroyed a barn in the Portland area.							
Cookeville, Putnam County	27	1700EST			0	0	4	0		Lightning
			Lightning sparked 3 fires in the Cookeville area destroying a barn and a storage shed. A large tree limb fell on utility lines leaving 2,000 homes without power.							
Shelby County	27	2000CST			0	0	6	0		Lightning
			Lightning ignited a blaze in a warehouse on U.S. 78 outside of Memphis. Florist supplies valued at a half million dollars were lost. 85 firefighters battled the blaze resulting in 2 injuries, one from heat exhaustion and the other struck in the face by a falling pipe.							
Blount County Loudon County	28	Afternoon			0	0	5	0		Thunderstorm Wind
			Straight line winds from a thunderstorm knocked down fences, uprooted trees and leveled 2 barns near Greenback on Morgantown Road at the Loudon-Blount county line.							
41 TEXAS, Northern										
Tarrant County Fort Worth	4	UNK			1	0				Heat
			A 58-year old man died from heat stroke after his body temperature reached 110 degrees. The man had shut all the doors and windows to his house.							
Camp County Pittsburg	5	1430CST			0	0	?	?		TSTM Wind
			Thunderstorm winds uprooted trees in Pittsburg.							
Dallas County Dallas	5	1525CST			0	0	?	?		TSTM Wind
			Thunderstorm winds broke large limbs off trees in east Dallas.							
Cass County 2E Hughes Springs 2S Linden	5	1540CST 1540CST			0	0	?	?		TSTM Wind TSTM Wind
			Thunderstorm winds uprooted trees 2 miles east of Hughes Springs and 2 miles south of Linden at 1540CST.							
Denton County Denton	5	1540CST			0	0	?	?		TSTM Wind (52)
			Thunderstorm winds gusted to 60 MPH in northeast Denton.							
Parker County Weatherford	5	1700CST			0	0	?	?		TSTM Wind (52)
			Thunderstorm winds gusted to 60 MPH in Weatherford.							
Ellis County Waxahachie Midlothian	5	1815CST 1915CST			0	0	?	?		TSTM Wind TSTM Wind
			Thunderstorm winds took some shingles off a house in Waxahachie. Thunderstorm winds downed a tree and a telephone line in Midlothian.							
Navarro County Barry	5	2010CST			0	0	3	?		TSTM Wind
			Thunderstorm winds caused about \$1500 damage to the roof of a garage, a car and a fence in Barry.							
— TEXAS, Northern										
Grayson County Luella	10	1120CST			0	0	?	?		TSTM Wind
			Thunderstorm winds damaged a carport and several storage sheds at Luella.							
Brown County: 2E Brownwood Early	11	1305CST 1315CST	Short Narrow		0	0	?	?		Tornado (F0) TSTM Wind
			A Texas Department of Public Safety officer observed a small tornado 2 miles east of Brownwood at 1305CST. Thunderstorm winds uprooted trees and damaged the roof and sides of a sheet metal auction building in Early at 1315CST.							
Tarrant County (FTW) Fort Worth Meacham Field	11	1643CST			0	0	4	?		TSTM Wind (53)
			Thunderstorm winds gusted to 61 MPH at Meacham Airport in Fort Worth damaging several airplanes.							
Ellis County Ennis	11	1715CST			0	0	?	?		TSTM Wind
			Thunderstorm winds knocked down several trees in Ennis.							
Grayson County 6NW Sherman	12	1600CST			0	0	4	?		TSTM Wind (75)
			Thunderstorm winds gusted to 86 MPH at the Grayson County Airport (6NW Sherman) where 5 utility poles were blown down and 3 airplanes and hangars were damaged.							
Brown County Bangs	13	1400CST			0	1	3	?		TSTM Wind
			A mobile home, automobile repair garage, and a city storage barn were damaged by thunderstorm winds. The owner of the garage was injured when a garage door fell upon him.							
Jones County Truby	13	1530CST			0	0	?	?		TSTM Wind
			Thunderstorm winds overturned a Texas Highway Department truck and downed two telephone poles at Truby.							
Taylor County Abilene	13	1630CST			0	0	?	?		TSTM Wind
			Thunderstorm winds unroofed a sheet metal storage shed at a lumber yard and uprooted trees in Abilene.							
Young County Olney 2NE Olney	13	1715CST 1720CST			0	0	3	?		TSTM Wind TSTM Wind
			Thunderstorm winds destroyed an outbuilding and damaged a carport in Olney. A mobile home was destroyed and a shed damaged 2 miles northeast of Olney.							
Clay County 3E Henrietta	13	1835CST			0	0	?	?		TSTM Wind
			Thunderstorm winds destroyed a farm building and damaged two others 3 miles east of Henrietta.							
Dallas County Dallas	15	UNK			2	0				Heat
			The Dallas County Medical Examiner's Office reported that two men died from hyperthermia. One of the men, 82 years old, was found in his home with all the windows and doors shut. Heart disease contributed to his death. The other man, 43 years old, was at home in a room where the temperature was about 100 degrees. Diabetes and myotonic dystrophy contributed to his death.							
Knox County Benjamin	16	1745CST			0	0	?	?		TSTM Wind
			Thunderstorm winds broke large limbs off of trees at Benjamin.							
Wilbarger County Vernon	26	1455CST			0	0	3	?		TSTM Wind
			Thunderstorm winds overturned a travel trailer and storage shed, and damaged several roofs in Vernon.							
41 TEXAS, Southern										
Galveston County	28	1530CST			0	0	4	0		Tstm Wind (?)
			High winds from a thunderstorm damaged the roof of a car wash. A nearby convenience store lost a window. Trees were also toppled. The location of the damage was at Priendswood.							
Brazoria County	28	1715CST 1715CST			0	0	0	0		Hail (1.75) Tstm Wind (?)
			Golfball size hail fell at Rosharon. The hail did little damage. High winds from a thunderstorm rolled a mobile home in which 8 persons were in. The people were treated at a local hospital for cuts and bruises and then released. The wind also damaged out buildings, trees and windows. Other mobile homes in the area suffered minor damage.							

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 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	
41 TEXAS, Western									
Tom Green County	10	1700CST			0	0	0	4	Lightning
									Lightning set fire to grassland north of Christoval, near Mineral Wells Road, and caused an area 1 1/2 miles by 1/2 mile of ranchland to burn. The damage was mostly the loss of grazing grass for livestock.
Hale County	10	1730CST	2.5	.40	0	0	3	3	Tornado (F0)
									A small tornado touched down 2.2 miles south of Plainview on FM 400 and moved northwest, doing intermittent light damage to residences, automobiles, and farmland. The high-based parent thunderstorm had a weak radar signature but moved to the left of the environmental wind field.
Hansford County	12	1500CST			0	0	0	0	Funnel
									The Spearman Police Department reported a funnel cloud near town.
Ochiltree County	12	1530CST			0	0	0	0	Hail (0.75)
									Dime sized hail was encountered by Department of Public Safety Officers five miles south of Perryton.
Ochiltree County	12	1631CST			0	0	0	0	Hail (0.75)
									Hail up to 0.75 inch in diameter was reported two miles west-southwest of Waka. No damage was noted.
Sterling County	14	1640CST			0	0	0	0	TSTM WIND (52)
									Thunderstorm wind gusted to 52 knots, according to the Sheriff's Office.
Midland County	15	1725CST			0	0	0	0	TSTM WIND (56)
									Thunderstorm wind gusted to 56 knots at the Weather Service Office, Midland Regional Airport.
Andrews County	15	1800CST			0	0	4	0	TSTM WIND
									Thunderstorm wind of undetermined force rolled a mobile home in the southern part of the county. The home was not anchored, and no other significant damage was noted.
Lynn County	15	1930CST	1.0	30	0	0	0	0	Tornado (F0)
									A small tornado was observed by Sheriff's Deputies over the southeast part of the county, about eight miles southeast of Tahoka.
Garza County	15	2000CST			0	0	0	0	TSTM WIND (52)
									Thunderstorm wind gusted to 52 knots four miles west of Post, according to the Sheriff's Office.
Lamb County	18	Est 1445CST			0	0	0	0	TSTM WIND (52)
									Olton Fire Department Officials reported thunderstorm wind gusts near 52 knots. No damage was reported.
Roberts County	18	1652CST			0	0	0	0	Hail (2.75)
									The Sheriff's Office reported baseball sized hail 3.5 miles northwest of Miami at 1652 CST. At 1700 CST, very heavy rain accompanied golfball sized hail at Miami.
Reeves and Loving Counties	23	1415CST			0	0	0	0	Funnel
									A Sheriff's Deputy spotted a funnel cloud just southwest of Saragosa. The funnel apparently never touched ground but was observed for over an hour as it moved across Reeves and Loving Counties.
Lynn County	25	1820CST			0	0	4	4	TSTM WIND
									A small thunderstorm moved across Tahoka and brought an apparent wet microburst that blew out windows, broke tree branches, and uprooted small trees throughout town.
Lubbock County	26	2225CST			0	0	0	4	Hail (1.75)
									Hail between quarters and golfballs in size fell across southwest Lubbock for about 15 minutes, almost covering the ground. The hail was accompanied by about an inch of rain in 20 minutes and wind gusts to 45 knots. Damage was the partial denuding of trees and destruction of shrubs, garden plants, and crops.
Reagan County	27	Est 1815CST			0	0	0	0	Hail (1.75)
									The Sheriff's Office reported hail near golfball size ten miles south and east of Big Lake. The hail fell in open ranchland and inflicted no significant damage.
— TEXAS, Western									
Reeves County	27	2210CST			0	0	4	3	TSTM WIND (70) Flash Flooding
					0	0	4	0	
									The Sheriff's Office reported thunderstorm wind estimated near 70 knots in the City of Pecos. The high wind downed numerous trees and at least three power poles, resulting in extensive power outages in Pecos. Some parts of town were without electricity for eleven hours. Other wind damage in Pecos included destruction of outbuildings, roofing damage, and destroyed fences.
									The wind was accompanied by rains of up to five inches across the county, including Pecos and Saragosa. Flash flooding in Saragosa pushed water into at least one house. Water damage was also noted in both business and residential sections of Pecos.
Lynn County	30	1724CST			0	0	0	0	Hail (1.75)
									The public reported golfball sized hail in the northwest part of the county, near the Lakeview Community. The report was relayed through a Midland Radio Station.
Coke County	30	2038CST			0	0	?	0	Hail (0.75)
									A motorist on U.S. Highway 277 reported hail between Bronte and several miles north of Bronte. The hail ranged in size from marbles to dimes.
42 UTAH									
Duchesne County Duchesne	05	unkwn			0	0	4	0	Flash Flood
									A flash flood cut a gorge 30 feet deep and 20 feet wide in a hillside near Duchesne, and stopped traffic along the road between Duchesne and Bridgeland for several hours. As much as 2 1/2 feet of water covered the road at one time.
Utah County Provo	06	1707MST			0	0	1	0	Thunderstorm Wind (G53)
									A thunderstorm downburst gusted to 61 mph at the Provo Airport.
Iron County Parowan Canyon	07	1730MST			0	0	2	0	Flash Flood
									A flash flood covered the bridge along the Parowan Canyon road, closing the road for a time.
Grand County Moab	07	1830MST			0	0	4	0	Flash Flood
									Runoff from heavy rain over the La Sal Mountains, filled a 10 foot culvert to overflowing in a few minutes. A large section of State Route 313 was washed out. A person in the area reported that most washes had about 4 feet of water in them.
Salt Lake County Sandy	13	1557MST			0	0	1	0	Thunderstorm Wind (G61)
Salt Lake County Sandy	13	1707MST			0	0	1	0	Thunderstorm Wind (G50)
									Spotters reported wind gusts to 70 mph and 58 mph in Sandy and South Salt Lake City, respectively.
Salt Lake County Emigration Canyon	15	1256MST			0	0	1	0	Hail (1.00)
Salt Lake County Sandy	15	1326MST			0	0	1	0	Hail (0.75)
Salt Lake County Sandy	15	1336MST			0	0	1	0	Hail (0.75)
Utah County Orem	15	1646MST			0	0	1	0	Hail (0.75)
									Thunderstorms produced large hail in several spots along the Wasatch Front.
Tooele County Dugway	20	1413MST			0	0	1	0	Thunderstorm Wind (G51)
Salt Lake County Salt Lake City	20	1605MST			0	0	1	0	Thunderstorm Wind (G50)
									A large gust front produced blowing dust and strong winds over much of the Wasatch Front area and in Tooele County between Salt Lake City and Wendover. Only two of the reported wind speeds reached or exceeded 58 mph however.
Kane County Long Valley Junction	23	1702MST			0	0	2	0	Flash Flood
Washington County Zion National Park	23	1947MST			0	0	2	0	Flash Flood
									Heavy thunderstorm rains produced flash floods in at least two spots. Several inches of flowing water covered U.S. Highway 89 near Long Valley Junction shortly after 6 p.m. MDT. Another spotter reported that the Virgin River had overflowed its banks by 1 to 1 1/2 feet at about 8:47 p.m. MDT.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 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	

UTAH

Duchesne County Bridgeland	24	1845MST			0	0	3	0	Flash Flood
Thunderstorm rainfall filled a canal to overflowing, which then covered U.S. 40 with 6 inches of water. Traffic was stopped for about two hours until the flood water subsided.									
Box Elder County Plymouth	25	1135MST	short narrow		0	0	1	0	Tornado (F0)
Cache County 1.5 mi. E Benson	25	1205MST	short narrow		0	0	1	0	Tornado (F0)
Two cold air funnel type tornadoes touched down briefly, then immediately receded back into the clouds. Several spotters reported seeing the funnels drop from the clouds. Many other funnels which did not touch the ground, were also reported.									

43 VERMONT

Bennington	19	1645EDT	--	--	0	0	4	5	Thunderstorm Winds
Fast moving thunderstorms hit Bennington County leaving downed trees and power lines in their wake. Unofficial estimates of wind speed were placed near 60 MPH.									

44 VIRGINIA

Martinsville	4	0010EST			0	0	3	0	Thunderstorm Wind
Thunderstorms moved through the area, knocking over several trees and a number of television antennas near Martinsville. Heavy rains dropped 2.25 inches in 24 hours ending that evening.									
Charlottesville Albemarle Co	4	1830EST			0	0	3	0	Thunderstorm Wind
Charlottesville Manassas	4	1830EST			0	0	5	0	Lightning
In Ivy several large trees were blown over by strong winds. Other trees were twisted off 10 to 15 feet above ground. Residents reported a funnel cloud and a roaring sound. The storm made dips in the area with the total path less than one mile. Associated lightning set a house on fire in Charlottesville and 6 to 7 buildings in Manassas.									
Culpeper Co	5	1320EST			0	0	3	3	Thunderstorm Wind
Strong winds associated with thunderstorms tore off all or parts of roofs of a tenant house, silo, hay barn, calf barn and storage shed in Batna, as well as breaking off part of cedar tree and flattening a corn field.									
James City Co Williamsburg	5	1545EST			0	0	?	0	Thunderstorm Wind (37 kts)
Thunderstorms produced winds up to 37 knots in Jamestown. Heavy rains with the thunderstorms dropped 1.96 inches in Williamsburg, causing some flooding.									
Harrisonburg	22	1540EST			0	0	5	0	Thunderstorm Wind
Strong winds associated with thunderstorms blew a barn off its foundation and splintered it. The winds also destroyed a garage and a camper, knocked over several television antennas as well as several large trees.									
Fairfax Co	28	1347EST			1	1	0	0	Lightning
Two teenagers were struck by lightning as they ran past a tree while a thunderstorm was occurring. A 14 year old boy died and a 15 year old girl survived. Maximum winds reached 50 mph at Andrews AFB. #140									

VIRGINIA

Mecklenburg Co Pittsylvania Co	27	1837EST			0	0	5	0	Thunderstorm Wind
Strong thunderstorm winds tore roofs off some farm buildings, uprooted two large trees and snapped others in half in Gretna. Lightning from that storm set several fires. In Clarksville, the winds knocked over and destroyed a cement block building under construction.									
Mecklenburg Co Halifax Co	28	2036EST			0	0	?	?	Thunderstorm Wind
Strong winds associated with thunderstorms knocked over several trees in South Boston. Damaging winds were reported 25 miles northeast of Clarksville.									

45 WASHINGTON

Walla Walla County Grant County	24	1700 PST	3.0	17	0	0	3	0	Tornado (F0)
24 1700 PST 0 0 0 4 Lightning									
Unstable air rotating around a low pressure system over Idaho spawned scattered afternoon and evening thunderstorms over Central and Southeastern Washington. A tornado formed over Walla Walla and touched down at several points along its path. Damage included a patio roof being torn from the front of a house and landing in the backyard. Lightning near the town of Quincy started a fire in a haystack which burned 250 tons of hay.									

46 WEST VIRGINIA

WV2001 Marshall County (Belton)	22	1625EDT			0	0	3	3	Thunderstorm Winds
Marshall County Sheriffs Department reported large trees and power lines blown down during Thunderstorms passing through Southeastern Marshall County.									
WV2005 Doddridge County (2N West Union)	22	1750EDT			0	0	3	3	Thunderstorm Winds
Cooperative Observer reported several large trees blown across State Route 18 near West Union.									
WV2002 Wirt County (Elizabeth)	22	1840EDT			0	0	?	?	Thunderstorm Winds
Emergency Services reported winds near 60MPH blowing down large trees, power and telephone lines during a Thunderstorm.									
WV2007 Webster County (Cowen)	22	1845EDT			0	0	4	?	Thunderstorm Winds
A vacant mobile home was thrown 40 yards and destroyed. 1 house and 2 mobile homes suffered roof damage due to fallen trees and large limbs and 2 vehicles were damaged. Damage was reported by the Webster County Sheriff's Department during Thunderstorms.									
WV2005 Harrison County (Lumberport and Gypsy)	28	1845EDT			0	0	3	?	Thunderstorm Winds
State Police reported numerous large trees, some as large as 24" in diameter blown down and several out buildings destroyed.									
WV2005 Gilmer County (Troy)	28	2045EDT			0	0	4	?	Funnel Cloud Thunderstorm Winds
Several buildings reported destroyed, large trees down, and many power lines down as a result of high winds associated with the passage of Thunderstorms. Several residents reported seeing a ice cream cone shaped cloud that did not touch the ground.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 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	
47 WISCONSIN									
Three Lakes, Oneida Co.	01	1710CST			0	0	5	?	Thunderstorm Wind
									Intense severe thunderstorm winds caused over \$100,000 damage to the Planting Ground Lake area 2N of Three Lakes. Large falling pine trees extensively damaged 2 cottages and slightly damaged 3 others. A 17 foot boat was lifted off its hoist and slammed upside down on its pier.
Argonne, Laona, Forest Co.	01	1805-1815CST			0	0	?	?	Thunderstorm Wind
									A severe thunderstorm with strong winds downed several trees and power lines from Argonne to Laona.
Tipler, Florence Co.	01	1815CST			0	0	?	?	Thunderstorm Wind
									Several large trees were knocked down by severe thunderstorm winds at Tipler.
Peshtigo, Marinette Co.	01	1935CST			0	0	?	?	Thunderstorm Wind
									Powerful winds from a severe thunderstorm toppled large trees and power lines in Peshtigo.
Lena, Oconto, Oconto Co.	01	2100-2120CST			0	1	5	?	Thunderstorm Wind
									Violent thunderstorm downburst winds carved \$400,000 worth of damage along a 10 mile path from just east of Lena to the north shore of Green Bay, just north and west of Oconto. Hundreds of trees were felled, several barns and sheds were leveled and many cottages and homes damaged. A barn in the Town of Little River was destroyed, 20 dairy cows killed and the top of a 40 foot silo found a half mile away. One woman was injured when struck by flying glass and debris in a cottage near Green Bay.
Madison, Dane Co.	02	0300CST			0	0	?	?	Thunderstorm Wind (52)
									Severe thunderstorm winds gusting to 60 mph split or uprooted large trees on the west side of Madison.
Columbus, Columbia Co.	02	0405CST			0	0	0	0	Hail (0.75)
	02	0405CST			0	0	?	?	Thunderstorm Wind (52)
									A severe thunderstorm generated winds up to 60 mph and dime size hail 1/4" of Columbus.
Menasha, Winnebago Co.	14	1740-1743CST	0.25	100	0	0	5	0	Tornado (F1)
									A small tornado caused \$200,000 in damage when it briefly touched down 1 mile west of Menasha. Most of the damage occurred at a warehouse where siding and a roof were twisted and ripped away. Two 100-square-foot cement slabs were also torn from the building. Trees and power lines were downed as well.
New Berlin, Waukesha Co.	15	1903CST			0	0	0	0	Funnel Cloud
									A funnel cloud was sighted over New Berlin.
West Allis, Milwaukee, Milwaukee Co.	15	1915-1925CST			0	0	?	?	Thunderstorm Wind (52)
									A severe thunderstorm produced winds up to 60 mph at West Allis and at the Coast Guard station in Milwaukee. Some trees were also knocked down throughout the county.
New Fane, Fond du Lac Co.	16	1039CST			0	0	3	?	Thunderstorm Wind
									Very strong winds from a severe thunderstorm carried a 9 by 11 foot aluminum shed 120 feet through the air, rolled a yard swing 40 feet and caused tree damage in New Fane.
Lake Michigan, Milwaukee Co.	16	1125CST			0	0	0	0	Waterspout
									A waterspout was spotted 1E of the Milwaukee Coast Guard station.
Cambria, Columbia Co.	16	1845CST			0	0	4	0	Thunderstorm Wind
									A severe thunderstorm packing intense winds blew a silo down near Cambria.
South Wayne, Lafayette Co.	16	1650CST	0.1	50	0	0	5	?	Tornado (F1)
									A tornado struck 3 miles southwest of South Wayne causing \$50,000 damage to a 50-foot-tall barn. The tornado also twisted trees and broke several power poles.
Madison, Dane Co.	16	1710-1720CST			0	0	4	0	Thunderstorm Wind (64)
									Severe thunderstorm winds gusting to 74 mph at the Dane County airport in Madison collapsed the wall of an airplane hangar. Several boats on Lake Mendota were overturned by the high winds.
--- WISCONSIN									
Watertown, Jefferson Co.	16	1755CST			0	0	?	0	Thunderstorm Wind
									Power lines and large trees were toppled by intense severe thunderstorm winds at Watertown.
Palmyra, Jefferson Co.	16	1800CST			0	0	5	0	Thunderstorm Wind
									A severe thunderstorm generating powerful winds blew down a wall of a 93,000 square foot factory under construction in Palmyra, causing \$200,000 in damage. In addition, large trees, including a 35 foot maple tree, and several power lines were also knocked down throughout Palmyra.
Whitewater, Walworth Co.	16	1805CST			0	0	3	0	Thunderstorm Wind
									Very strong winds from a severe thunderstorm hit a farm 5SE of Whitewater toppling several large trees onto a home and camper. Numerous power lines were downed in the Whitewater area.
Allenton, West Bend, Washington Co.	16	1810-1823CST			0	0	?	0	Thunderstorm Wind (52)
									Severe thunderstorm winds gusting to 60 mph blew down a number of power lines from Allenton to West Bend.
East Troy, Walworth Co.	16	1820-1830CST			0	0	4	0	Thunderstorm Wind
									Intense severe thunderstorm winds struck the East Troy area damaging the roofs of the East Troy Fire Department and a few barns. A couple of large trees were also toppled.
Port Washington, Ozaukee Co.	16	1830CST			0	0	?	0	Thunderstorm Wind (52)
									A severe thunderstorm produced winds up to 60 mph and toppled trees and power lines in Port Washington.
Darien, Sharon, Walworth Co.	16	1830-1835CST			0	0	?	0	Thunderstorm Wind
									Numerous trees along with some power poles were knocked over in the Darien and Sharon areas by a severe thunderstorm.
Pretty Lake, Waukesha, New Berlin, Waukesha Co., Waukesha Co.	16	1830-1845CST			0	0	5	0	Thunderstorm Wind (63)
	16	1837CST	1.5	100	0	1	6	0	Tornado (F1)
									A severe thunderstorm struck the Pretty Lake area, damaging 6 homes, some garages and boats as well as toppling several trees. The storm then generated a tornado which set down on the east side of Wales on Highway G just east of Highway 83. The tornado resulted in \$600,000 damage to 20 homes, 3 of which sustained major structural damage, a couple of barns and silos. Many trees were uprooted. A woman was injured when she inhaled house insulation. The tornado lifted 1 1/2 miles east of Wales and the accompanying severe thunderstorm generated winds up to 72 mph at the Waukesha County airport. In New Berlin, several large trees, one of which crushed a truck, were felled along with many power poles.
Eagle Lake, Burlington, Waterford, Racine Co., Waterford, Racine Co.	16	1830-1840CST			0	0	4	0	Thunderstorm Wind (61)
	16	1839CST	0.1	25	0	0	0	?	Tornado (F0)
									A severe thunderstorm with powerful winds up to 70 mph tore through the east side of Burlington and Waterford. The wind peeled back the roof of a plant 3 miles northeast of Burlington and uprooted whole trees near Echo Lake and along Highway 36. At Eagle Lake a resort building was blown off its foundation and collapsed. A small tornado briefly touched down near the juncture of Highway F just west of Highway 36 snapping several trees in half.
Franklin, Milwaukee, Lake Michigan, Milwaukee Co.	16	1845-1900CST			0	0	?	0	Thunderstorm Wind
	16	1845-1850CST			0	0	0	0	Funnel cloud
	16	1855CST			0	0	0	0	Waterspout
									Several funnel clouds were sighted throughout Milwaukee and in Franklin. The severe thunderstorm which produced the funnels also generated violent winds which uprooted 15 large trees in Mitchell Park as well as toppling other trees and power lines in Milwaukee. A waterspout was spotted by a ship just east of Milwaukee's Hoan bridge along Lake Michigan.
Lilly Lake, Kenosha Co.	16	1848CST			0	0	0	0	Funnel Cloud
	16	1859CST			0	0	0	0	Funnel Cloud
									Funnel clouds were observed over Lilly Lake as well as at the junction of Highway 50 and Interstate 94.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 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	
WISCONSIN									
Mount Pleasant, Racine Co.	16	1905CST			0	1	?	0	Lightning
									Lightning struck a Mount Pleasant home and injured a man who was leaning against a metal door.
Sturtevant, Racine Co.	16	1910CST	0.1	25	0	0	0	?	Tornado (F0)
									A small tornado momentarily set down in a corn field along Highway 11 and Interstate 94 about 2 miles west-southwest of Sturtevant.
Paris, Kenosha, Bristol, Kenosha Co.	16	1910-1935CST			0	0	4	0	Thunderstorm Wind
									Severe thunderstorm winds blew down 3 trees, tore an awning from a house, damaged fences and shed doors, and removed the roof from a barn SE of Paris. In the city of Kenosha, the winds knocked over several trees and caused a carport to collapse. A patio deck was lifted up and torn from a house in Bristol.
Milwaukee, Milwaukee Co.	21	2353CST			0	0	0	0	Thunderstorm Wind (50)
									A severe thunderstorm produced winds up to 58 mph at Milwaukee's Mitchell International Airport.
Lake Michigan, Door Co.	28	0640-0725CST			0	0	0	0	Waterspout
									A waterspout formed over Lake Michigan about 1 1/2 NE of Sturgeon Bay.
Lake Winnebago	28	1125CST			0	0	0	0	Cold Air Funnel Cloud
									Cold air funnel clouds were observed over Lake Winnebago.
Milwaukee Co.	28	1320CST			0	0	0	0	Cold Air Funnel Cloud
									Several cold air funnel clouds were noted over Milwaukee county.
48 WYOMING									
Laramie Co 12SW Cheyenne	03	1417MST			0	0	3	0	Hail (.75)
3SW Cheyenne	03	1425MST			0	0	4	0	Hail (1.75)
Cheyenne	03	1426MST			0	0	4	0	Hail (2.00)
2SW Cheyenne	03	1429MST			0	3	7	0	Hail (2.00)
1W Cheyenne	03	1440MST			0	0	6	0	Hail (2.00)
2NW Cheyenne	03	1445MST			0	0	6	0	Hail (2.00)
1N Cheyenne	03	1513MST			0	0	4	0	Hail (1.75)
17NW Cheyenne	03	1522MST			0	0	0	0	Funnel cloud
6NE Cheyenne	03	1525MST			0	0	4	0	Hail (2.00)
21NE Cheyenne	03	1555MST			0	0	0	?	Hail (.75)
									At 1417MST radar detected a severe thunderstorm about 12 miles southwest of Cheyenne. This thunderstorm produced a hail swath about half to three quarters of a mile wide. The storm moved through the northeast section about one hour later. The storm pummeled Cheyenne with one-half inch to two-inch diameter hail. This hail storm heavily damaged cars at three major car dealerships west of downtown. Many of the cars were severely dented, with numerous broken or cracked windshields. Another especially hard hit area was F. E. Jarren Air Force Base where numerous vehicles were dented and windows shattered or broken on vehicles and some buildings.
									Three people were slightly injured during this hail storm. The hail also ripped leaves and small limbs from trees and decimated gardens throughout the City of Cheyenne. Damage from this hail storm was expected to exceed 37 million dollars. As this severe thunderstorm marched towards the northeast, a pilot spotted a funnel cloud 17 miles northwest of Cheyenne.
Goshen Co Hawk Springs	03	1715MST			0	0	0	?	Hail (1.50)
									A severe thunderstorm moved through Hawk Springs and deposited one and one-half inch diameter hail.
WYOMING									
Converse Co Orin Junction	03	2120MST			0	0	0	0	Hail (.75)
Platte Co 30NE Wheatland	03	2130MST			0	0	0	0	Thunderstorm Wind
Goshen Co 7W Jay Em	03	2140MST			0	0	4	4	Hail (1.75)
7W Jay Em	03	2149MST			0	0	4	4	Thunderstorm Wind
									At 2120MST a severe thunderstorm pelted Orin Junction in extreme southeast Converse County with three-quarter inch diameter hail. Later, this severe thunderstorm moved into northwest Platte County near Glendo Reservoir where 70 miles an hour wind gusts were recorded. This severe thunderstorm provided a combination of heavy rain, hail, and damaging winds which wracked the Jay Em area in northern Goshen County about 2140MST. Ranchers west of Jay Em experienced about one inch of heavy rain, one and three-quarter inch diameter hail, and wind gusts over 60 miles an hour. The hail storm, which covered a strip about 5 miles wide by 25 miles long seven miles west of Jay Em, leveled oats and hay crops in its path. The severe storm damaged or shattered numerous windows in ranch houses, garages, barns and pickup trucks. Siding damage was observed on many ranch buildings.
Goshen Co Ft. Laramie	03	2340MST			0	0	0	?	Hail (1.75)
									A severe thunderstorm brought one and three-quarters of an inch diameter hail and strong winds to Ft. Laramie at 2340MST.
Laramie Co, Albin	04	0200MST			0	0	4	5	Small hail
									An intense thunderstorm moved through the Albin area and produced heavy rain, high winds, and small hail. This storm damaged a number of crops, mainly beans, potatoes, oats, and sunflowers with some fields damaged as much as 80 percent.
Laramie Co. 6N Pine Bluffs	06	1450MST	.5	18	0	0	?	0	Tornado (F0)
									A tornado touched down briefly about 6 miles north of Pine Bluffs. No damage or injuries were reported.
Hot Springs Co 3NW Thermopolis	07	1700 to 1800MST			0	0	3	0	Flash flood
									An intense thunderstorm moved over the Sand Draw area of the Cottonwood Creek drainage northwest of Thermopolis. Torrential rains occurred from 1700 to 1800MST over the draw producing water levels of 5 to 6 feet running through the normally dry Sand Draw. Some culverts in the drainage area could not handle the amount of water and flooded roads in the area to a depth of a foot and a half. Hail one-quarter of an inch in diameter also fell and accumulated into drifts two to three feet deep.
Teton Co 40N Jackson	09	1945MST			0	0	2	3	Thunderstorm Wind
									A thunderstorm moved through the northern section of Teton National Park and a few trees were blown down.
Teton Co, Jackson	10	1345MST			0	0	0	0	Thunderstorm Wind (50)
									A thunderstorm moved over the Jackson Hole Airport and produced wind gusts of 58 miles an hour.
Fremont Co, Lander	10	1457MST			0	0	0	0	Thunderstorm Wind (58)
									Thunderstorm winds which gusted to 67 miles an hour were clocked at Hunt Field in Lander.
Park Co, Cody	10	1650MST			0	0	0	0	Thunderstorm Wind (53)
									Thunderstorms moved over north central Wyoming and produced wind gusts of 61 miles an hour at Cody Airport.
Sweetwater Co Rock Springs	11	0317MST			0	0	0	0	Thunderstorm Wind (55)
									At 0317MST wind gusts to 63 miles an hour were recorded at the Sweetwater County Airport east of Rock Springs due to a dissipating thunderstorm.
Carbon Co, Rawlins	11	1340MST			0	0	0	0	Thunderstorm Wind (55)
									Very strong thunderstorm winds gusted to 63 miles an hour at the Rawlins airport at 1340MST.
Weston Co, Newcastle	11	1445MST			0	0	4	0	Thunderstorm Wind
									At 1445MST an isolated, but intense, thunderstorm moved over the north section of Newcastle. The intense thunderstorm produced winds which ripped the roof off the Elk Mountain Forest Service office and dumped it on Highway 10 near the office. No injuries were reported.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1987

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED ¹ DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
WYOMING									
Crook Co, 2S Hulett	11	1715MST			0	0	4	4	Hail (2.00)
1W Alva	11	1730MST			0	0	4	4	Hail (2.00)
			<p>A severe thunderstorm swept through north central Crook County after 1715MST. This storm produced heavy rain and hail from one-quarter of an inch to two inches in diameter near Hulett. Wyoming Highway 24 south of Hulett was closed for a short time due to one- to two-foot drifts of hail and minor flooding as more than two inches of rain fell in about 30 minutes. Ranchers south of Hulett reported numerous windows shattered and roof and siding damage due to the hail. Ranchers north of Aladdin reported washed out fences and the loss of livestock. Grain crops were battered flat by the hailstorm from Alva to Aladdin. The hail one mile west of Alva drifted to a depth from 4 inches to over 12 inches.</p>						
Campbell Co Gillette	14	1409MST			0	0	0	0	Thunderstorm Wind (52)
			<p>Thunderstorm winds of 60 miles an hour were clocked at the Gillette-Campbell County Airport at 1409MST.</p>						
Washakie Co 6W Worland	15	1236MST			0	0	?	5	Hail (1.75)
2S Worland	15	1258MST			0	0	?	5	Hail (1.75)
Worland	15	1258MST			0	0	?	?	Hail (1.00)
			<p>A severe thunderstorm moved through central Washakie County and dropped hail ranging from one-half inch to one and three-quarters of an inch in diameter. The county sheriff reported one and three-quarters inch diameter hail to the west and south of Worland. Only one-half inch diameter hail fell in downtown Worland with one-inch diameter hail at the Worland Airport southeast of the city. This hail storm damaged an estimated 3,000 acres of sugar beets south of Worland. Damage was also done to fields of pinto beans, corn, and hay.</p>						
WY2001-004-009- Northwest Mountains Big Horn Mountains Wind River Mountains	16	0200 to 0800MST			0	0	0	0	Snow
			<p>A cold weather system moved through northwest Wyoming from 0200 to 0800MST on the 16th. This weather system deposited snow between the 8,500- to 9,500-foot level from Yellowstone National Park in the north to the Wind River Mountains in the south. Snow also fell in the Big Horn Mountains above 9,000 feet. Two to four inches of snow were reported in the northeast section of Yellowstone National Park and the north section of the Absaroka Mountains. Roads were slushy at Beartooth Pass and Dunraven Pass over the north section of the Absaroka Mountains. Later that morning brisk winds, along with snow, were causing blowing snow at Clay Butte (9,300-foot level), 33 miles northwest of Cody. Snow amounts of one inch or less were reported in the Big Horn Mountains.</p>						
Park Co, 30N Cody	24	2200MST			0	0	0	0	Heavy rain Minor flooding
			<p>Unusually heavy rainfall occurred over the drainages of the Line Creek and Bennett Creek near Clark. Officials for Park County reported 4 to 5 inches of rainfall over north Park County. This rainfall created many areas of standing water with 4 minor wash-outs occurring on the Line Creek road. The town of Clark is located 30 miles north of Cody.</p>						
Fremont Co 30N Lander	25	1300MST			0	0	0	0	Funnel cloud
			<p>A police officer near Morton Lake, 30 miles north of Lander, spotted a funnel cloud.</p>						
Fremont Co 20NW Riverton	25	1330MST			0	0	0	4	Hail (.50)
			<p>At 1330MST a thunderstorm moved through the Pavillion area about 20 miles northwest of Riverton. Hail damage was reported to late grain crops.</p>						
49 ALASKA, Northern ———— NO REPORT RECEIVED									
49 ALASKA, Southern									
COOK INLET	01	2023AST			0	0	0	0	Funnel Cloud
			<p>A small funnel cloud was observed over Anchorage by WSO meteorologists. The cloud was not associated with thunderstorms.</p>						
ALASKA PENINSULA	03	1400AST			0	0	2	0	High Wind
			<p>A Bering Sea storm brought wind gusts to 60 mph at Cold Bay.</p>						
BRISTOL BAY	04	1800AST			0	0	3	0	Heavy Rain
			<p>An occluded front associated with a Bering Sea storm produced 7.5 inches of rain in Dillingham in a 24 hour period. There was local urban type flooding but no river flooding.</p>						
COOK INLET	30	2000AST			0	?	4	?	High Wind
			<p>Strong northeast winds out of the Matanuska Valley gusting to over 60 mph caused power outages and moderate damage to some small buildings. There was widespread moderate damage to temporary buildings and displays at the Palmer State Fair.</p>						
49 ALASKA, Southeastern									
Southern SE Alaska	7/1/87-8/25				0	0	?	?	Drought
			<p>An extended dry spell during which only a tenth of the normal rainfall occurred, brought water shortages to several Southeast Alaska communities, mainly Wrangell, Petersburg, and Ketchikan, and caused spawning problems for an already weak run of Pink Salmon over most of southern Southeast Alaska. From 1 July to 25 August only 1.44 inches of rain fell at WSO Annette. This shattered the previous low rainfall record for that 56 day stretch, at that site, by about 3 inches. Normally over 10 inches falls during that period. More normal Southeast Alaska weather returned during the last week of the month breaking the drought.</p>						
50 HAWAII ———— NONE REPORTED									
51 PUERTO RICO ———— NONE REPORTED									
52 VIRGIN ISLANDS ———— NONE REPORTED									
53 PACIFIC ———— NONE REPORTED									

STORM SUMMARY

AUGUST 1987

TYPE	ALABAMA	ARIZONA	ARKANSAS	CALIFORNIA	COLORADO	CONNECTICUT	DELAWARE	FLORIDA	GEORGIA	IDAHO	ILLINOIS	INDIANA	IOWA	KANSAS	KENTUCKY	LOUISIANA	MAINE	MARYLAND & DC	MASSACHUSETTS	MICHIGAN	MINNESOTA	MISSISSIPPI	MISSOURI	MONTANA	NEBRASKA	NEVADA	NEW HAMPSHIRE
TORNADOES																											
Number	1	1			1			6		1	2		4		2					2	2			1	4	1	
Days	1	1			0			5		1	2		3		2					1	1			1	3	1	
Deaths	0	0			0			0		0	0		0		0					0	8			0	0	0	
Injuries	0	0			0			6		0	0		0		0					0	0			0	0	0	
Property Damage	?	2			0			5		4	5		5		4					4	6			4	6	5	
Crop Damage	?	0			0			0		0	?		4		0					0	0			0	3	0	
HAIL																											
Deaths	0	0			0				0	0	0		0	0	0		0				0	0			0	0	
Injuries	0	0			0				0	0	0		0	0	0		0				0	0			0	0	
Property Damage	?	3			4			4	4	0	6		5	6	1		2				4	5			6	6	
Crop Damage	?	?			5			0	0	4	7		5	6	4		0				?	0			8		
THUNDERSTORM WINDS																											
Deaths	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0		0	0	0	0		0	0	0
Injuries	0	0	0	0	0			0	0	0	59	0	0	10	1	0	0	0		2	0	0	0		15	0	0
Property Damage	4	5	5	5	3			3	7	4	7	5	6	6	5	?	5	3		5	5	6	5		7	5	0
Crop Damage	?	?	0	0	0			0	0	0	7	0	5	4	4	?	0	0		0	0	0	0		6	0	0
HIGH WINDS																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
LIGHTNING																											
Deaths	2	1	1	0	0			3	0	0	0	0	0	0	1	1	0	0		0	0	1			0	0	0
Injuries	6	0	1	3	0			5	0	0	0	0	4	8	5	1	1	0		1	0	5			0	1	0
Property Damage	?	0	5	5	?			4	5	5	5	5	5	5	5	0	0	0		4	4	5			4	0	0
Crop Damage	?	0	3	0	0			0	0	0	0	0	0	0	0	0	0	0		0	0	0			0	0	0
FLASH FLOODS																											
Deaths	0	0	0	0	0					4	0	0	0	0	0	0	0	0		0	0	0		0	0	0	0
Injuries	0	0	0	0	0					0	0	0	0	0	0	0	0	0		1	0	0		0	0	0	0
Property Damage	?	3	?	?	?					8	6		7	7	4	?	?			5	5	7		3	7	3	0
Crop Damage	?	?	?	?	?					6	6		7	7	0	?	?			0	0	0		2	7	0	0
FLOODS																											
Deaths	0	0									0		0												0	0	0
Injuries	0	0									0		0												0	0	0
Property Damage	5										8		7												3	3	4
Crop Damage	?										7		7												4		
HEAVY SNOWSTORMS AND BLIZZARDS @																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
ICE STORMS =																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
HURRICANES AND TROPICAL STORMS																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
ALL OTHERS																											
Deaths			5		0		1		8									2	0						1		
Injuries			1		0		0		0									0	0						0		
Property Damage			0		3		0		0									0	0						0		
Crop Damage			0		4		0		?									0	0						0		

SEE REFERENCE NOTES FOR STORM DAMAGE CATEGORIES

STORM SUMMARY

AUGUST 1987

TYPE	NEW JERSEY	NEW MEXICO	NEW YORK	NORTH CAROLINA	NORTH DAKOTA	OHIO	OKLAHOMA	OREGON	PENNSYLVANIA	RHODE ISLAND	SOUTH CAROLINA	SOUTH DAKOTA	TENNESSEE	TEXAS	UTAH	VERMONT	VIRGINIA	WASHINGTON	WEST VIRGINIA	WISCONSIN	WYOMING	ALASKA	HAWAII	PACIFIC	PUERTO RICO	VIRGIN ISLANDS	NATIONAL DEATH & INJURY TOTALS
TORNADOES										0												4	0	0	0	0	
Number	1	2		7	1				2		1	9		3	2			1		5	1						
Days	1	2		4	0				1		1	3		0	1			1		2	1						1
Deaths	0	0		0	0				0		0	0		0	0			0		0	0						
Injuries	0	0		0	0				0		2	0		0	0			0		1	0						17
Property Damage	3	0		5	4				5		5	5		3	1			3		3	3						
Crop Damage	0	0		4	0				0		0	0		3	0			0		0	0						
HAIL																											
Deaths	0	0	0	0	0	0	0				0	0		0	0					0	3						0
Injuries	0	0	0	0	0	0	0				0	0		0	0					0	3						3
Property Damage	5	0	5	6	3	3	3				5	5		4	1					8	6						
Crop Damage	0	4	6	6	0	2	2				3	4		4	0					6	6						
THUNDERSTORM WINDS																											
Deaths	0	0	0	0	0	0	0				0	0		0	0					0	0						0
Injuries	0	0	4	2	0	3	0				1	1		9	0					1	0						114
Property Damage	4	?	6	5	4	6	6				5	5		5	1					4	6						
Crop Damage	0	0	7	5	4	?	?				2	2		4	0					3	?						
HIGH WINDS																											
Deaths					0																						
Injuries					0																						
Property Damage					4																						
Crop Damage					0																						
LIGHTNING																											
Deaths	3	0	0	0	0	0	0				1	0		0	0					0	1						15
Injuries	25	0	0	0	2	1	1				1	0		0	0					1	?						71?
Property Damage	5	5	5	5	0	?	8				5	4		6	0					5	0						
Crop Damage	0	0	?	0	0	?	?				0	0		4	0					0	0						
FLASH FLOODS																											
Deaths	0	0		0									0	0	0						0	0					4
Injuries	0	0		0									0	0	0						0	3					2
Property Damage	6	3		6									4	4	5						0	0					
Crop Damage	5	0		6									0	0	0						0	0					
FLOODS																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
HEAVY SNOWSTORMS AND BLIZZARDS @																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
ICE STORMS =																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
HURRICANES AND TROPICAL STORMS																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
ALL OTHERS																											
Deaths			1								0			3													21
Injuries			0								0			0													1
Property Damage			0								3			0													
Crop Damage			0								0			0													

SEE REFERENCE NOTES FOR STORM DAMAGE CATEGORIES

REFERENCE NOTES

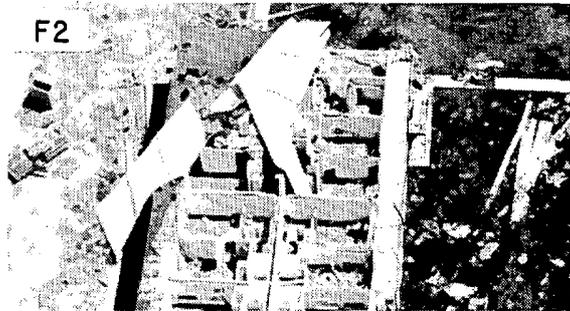
STORM DAMAGE CATEGORIES

1	Less than \$50	0/Blank	None reported.
2	\$50 to \$500	*	Miles instead of yards.
3	\$500 to \$5,000	**	Yards instead of miles.
4	\$5,000 to \$50,000	@	Includes heavy sleet storm.
5	\$50,000 to \$500,000	#	Freezing drizzle and freezing rain, commonly known as glaze.
6	\$500,000 to \$5 Million	≠	Report incomplete.
7	\$5 Million to \$50 Million	≠≠	Report not received.
8	\$50 Million to \$500 Million	o/c	Indicates Crop Damage amount is included in the value given for property damage.
9	\$500 Million to \$5 Billion		

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.



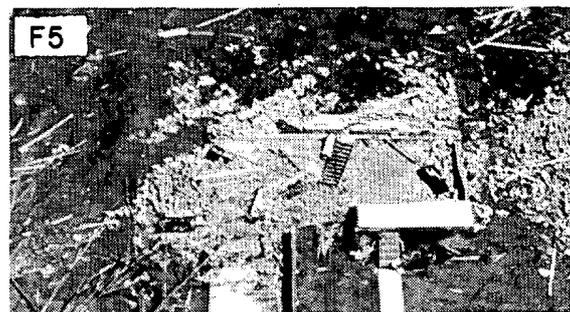
(F2) Significant tornado (113-157 mph): Considerable damage
Roofs torn off frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light-object missiles generated.

(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.

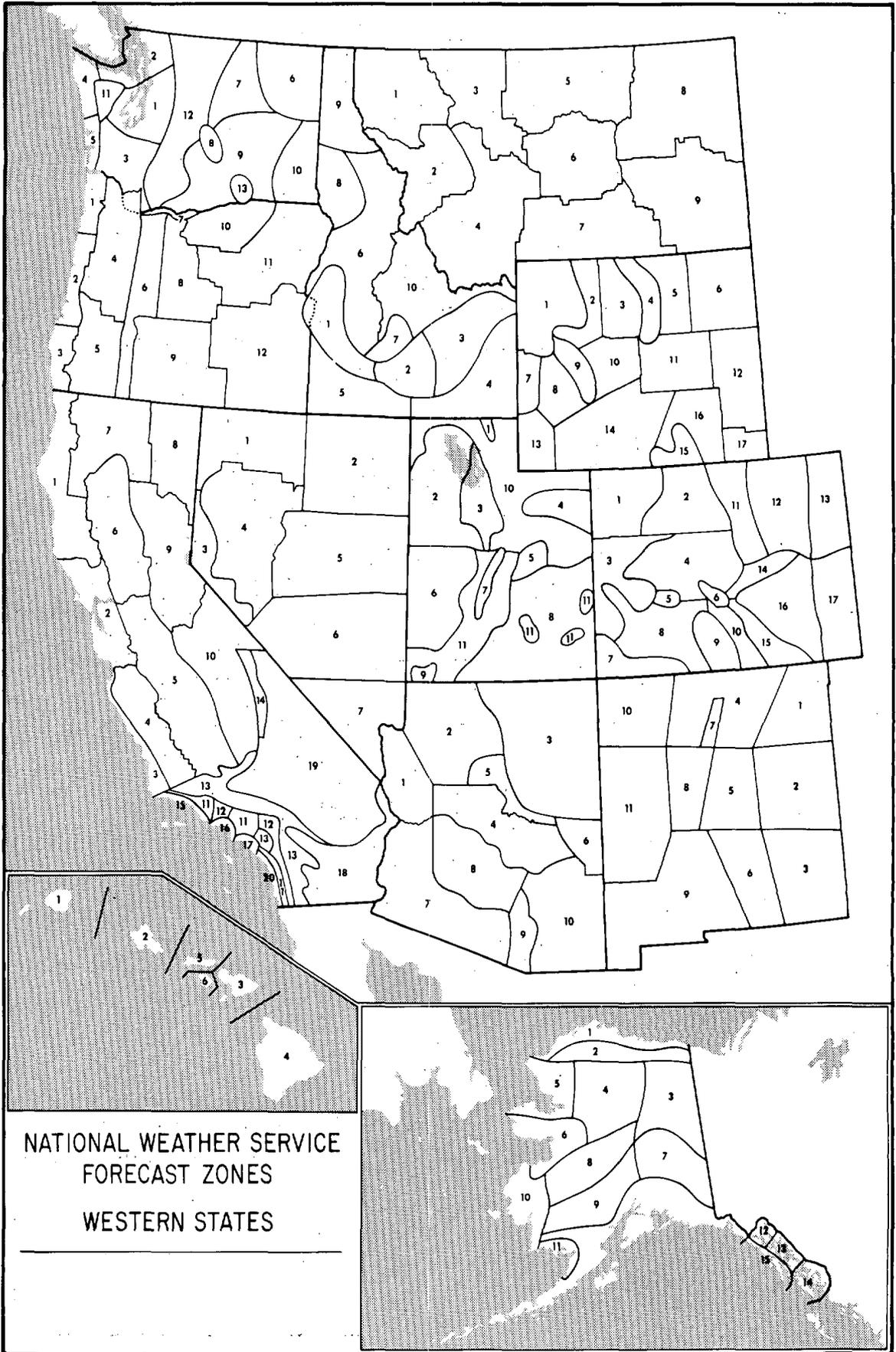


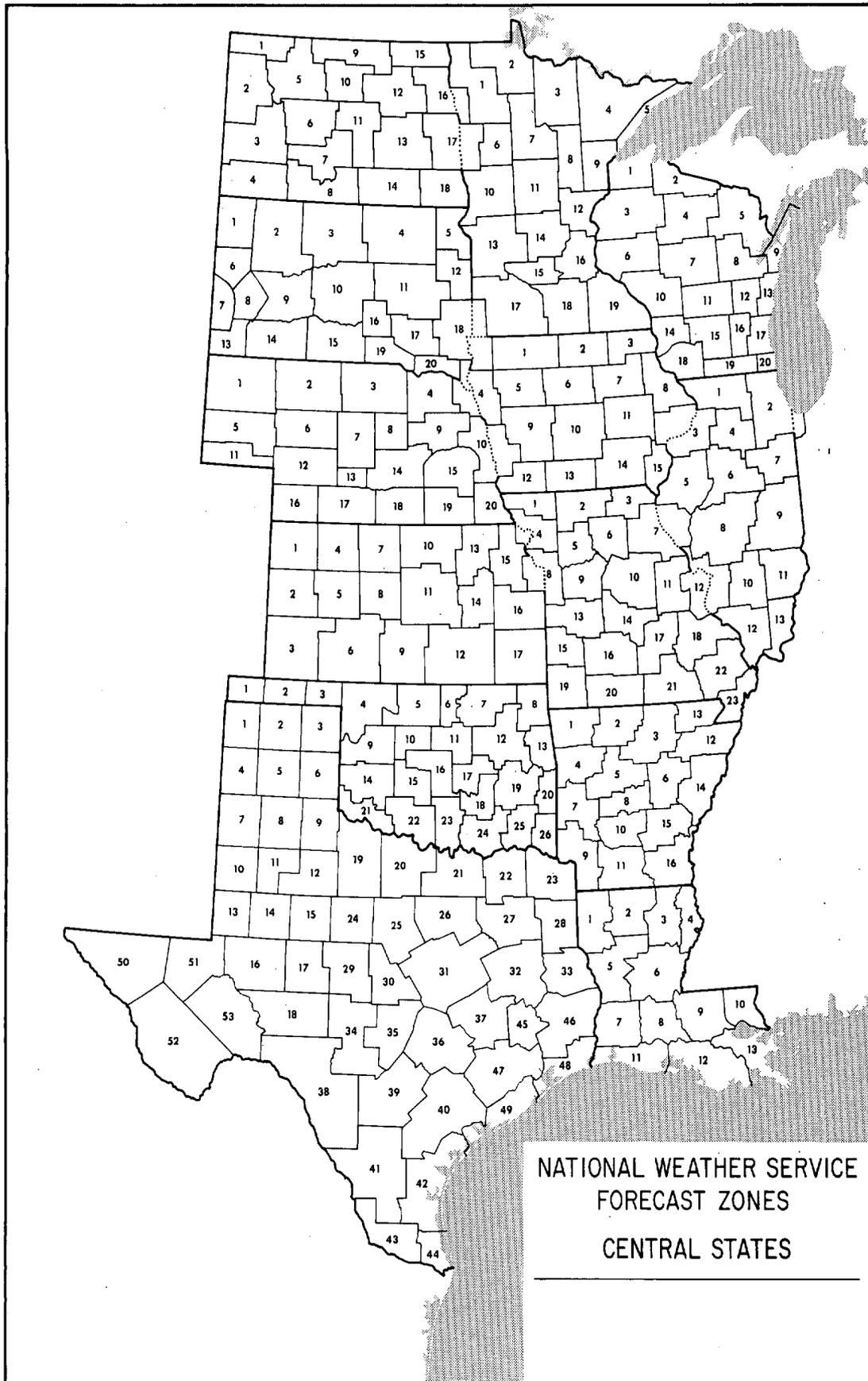
(F6-F12) (319 mph to Mach 1, the speed of sound):
The maximum wind speeds of tornadoes are not expected to reach the F6 wind speeds.

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

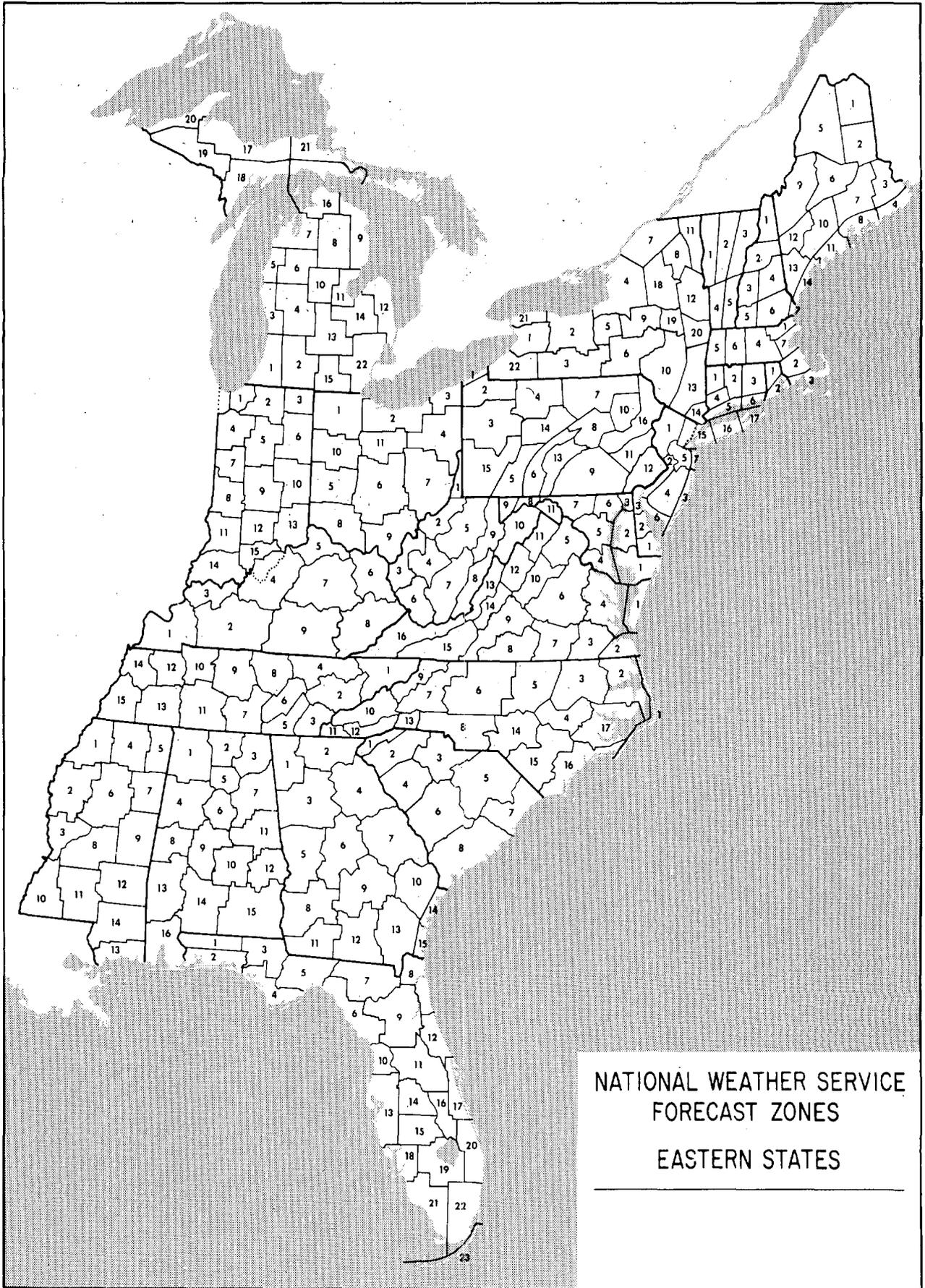
From J. Atmos. Sci., August 1981, p. 1517-1519

USCOMM-NOAA-ASHEVILLE, N.C. 1987-2000





*New zones for South Dakota and minor changes for Minnesota effective at 0300CST on August 17, 1987.



NATIONAL WEATHER SERVICE
FORECAST ZONES
EASTERN STATES

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

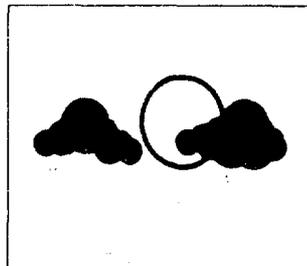
Registration prior to April 2, 1988, will be \$150 for members, \$165 for nonmembers, and \$65 for students and local government officials from the State of Tennessee.

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

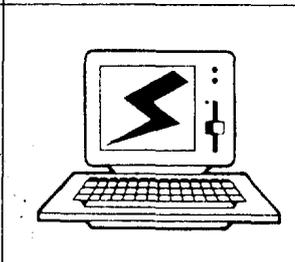
There is no better place to promote "floodplain harmony" than in Music City, USA. Located in the heart of Tennessee along the Cumberland River, Nashville's heart beats to music! May in Nashville provides visitors with pleasant temperatures, and the air is filled with the sounds of country. Within a short 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
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H.H. Chang, Ph.D., P.E.
Department of Civil Engineering
San Diego State University, CA



ASSOCIATION OF STATE

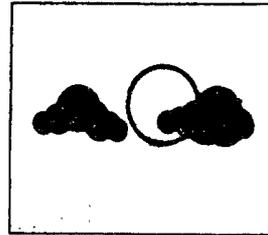
FLOODPLAIN MANAGERS, INC.

TWELFTH ANNUAL CONFERENCE

Hosted by the
Tennessee Valley Authority

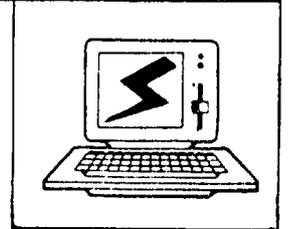
VANDERBILT PLAZA HOTEL
NASHVILLE, TENNESSEE

MAY 16-19, 1988



COMPUTATIONAL
HYDROLOGY
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SAN DIEGO, CALIFORNIA

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* FURTHER INFORMATION INSIDE *

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