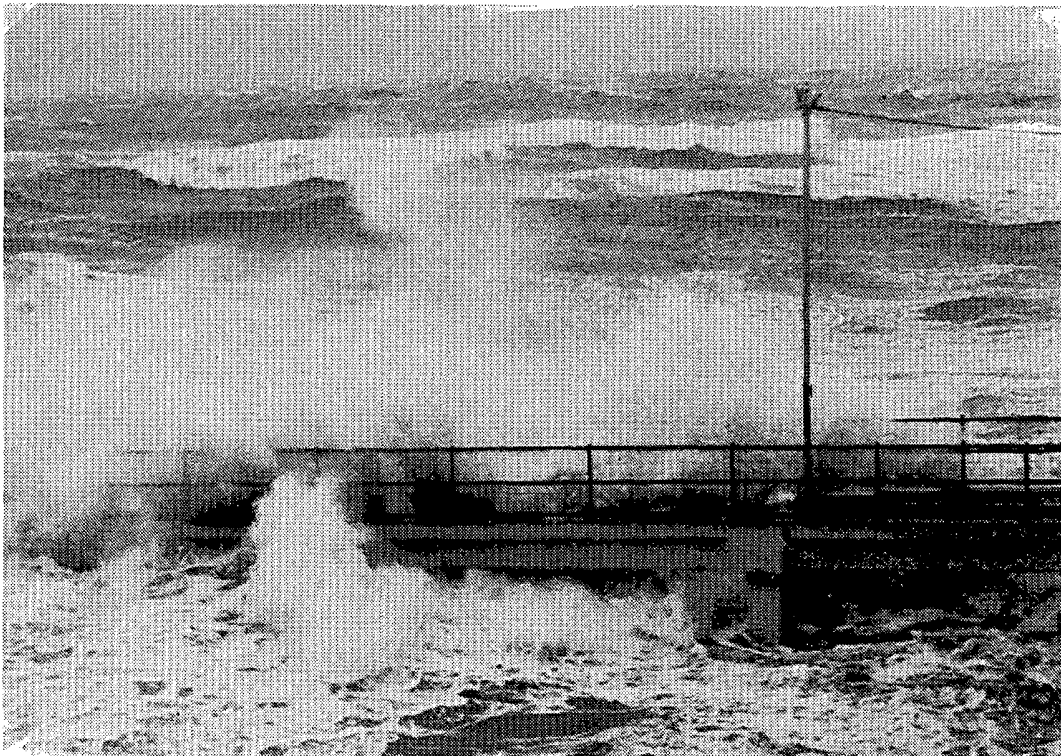


AUGUST 1983

VOLUME 25

NUMBER 8

# STORM DATA



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*L. Ray Hoxit*

ACTING DIRECTOR

NATIONAL CLIMATIC DATA CENTER

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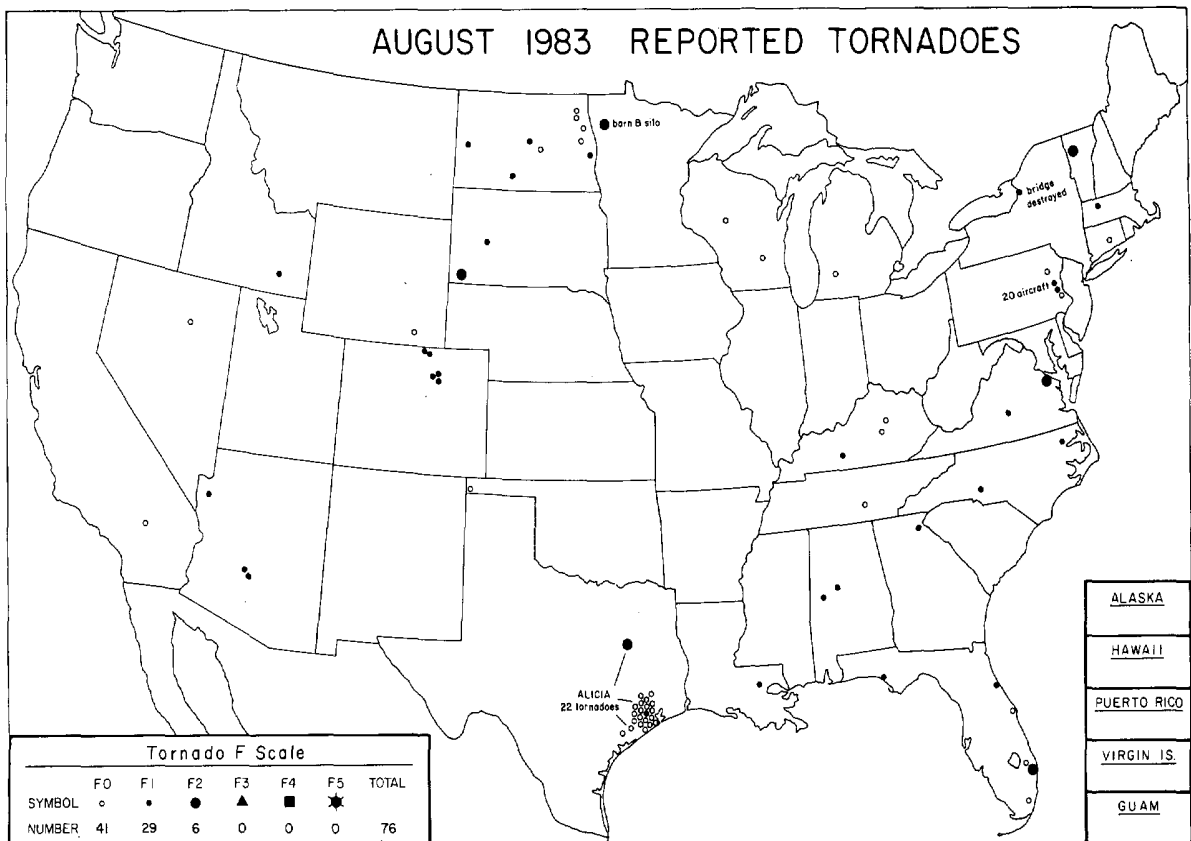
	<u>Page</u>
Outstanding Storms of the Month.....	3
Storm Data and Unusual Weather Phenomena.....	18
Storm Summary.....	50
Reference Notes.....	51
"F" Scale Definitions.....	51

Cover: Waves from Hurricane Alicia crashing over a fishing pier on Galveston Island, TX, on August 17th, 1983.  
Photo by Barbara White and Al Wooten.

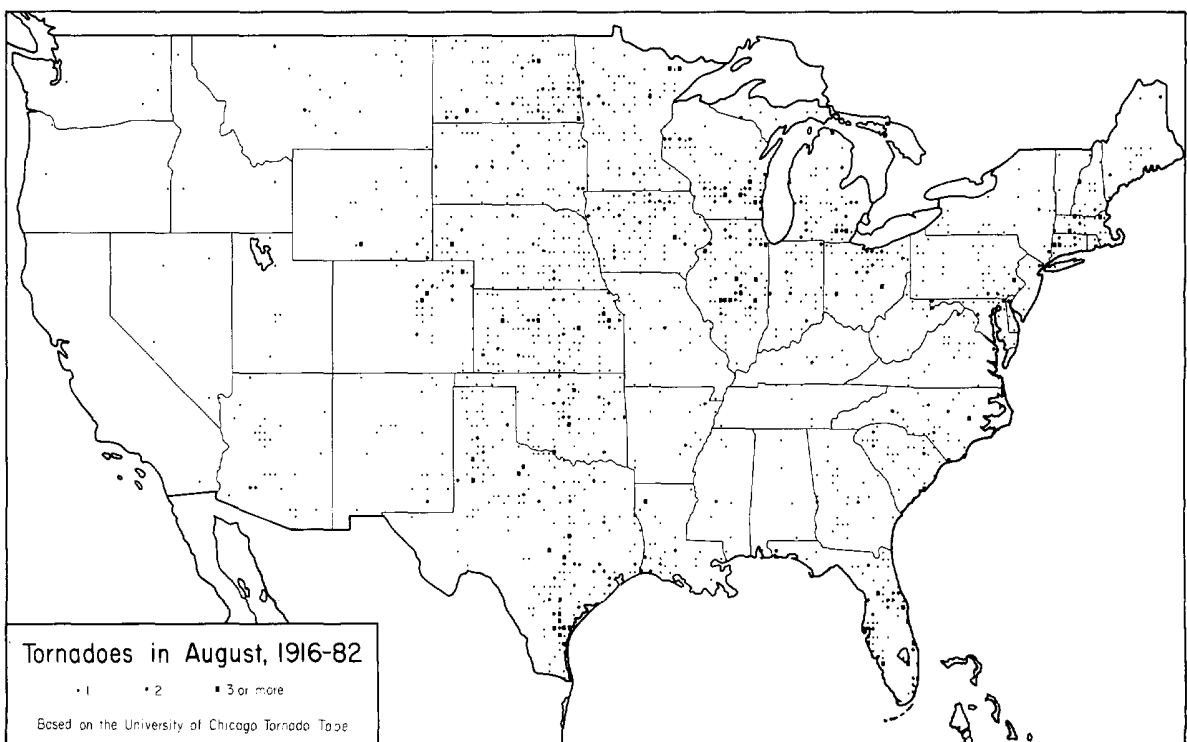
NOTE: The section on Outstanding Storms of the Month is prepared by Professor T. Theodore Fujita, editor, and Duane J. Stiegler, associate editor, University of Chicago. The narrative descriptions of Storms by State and Summaries of Hurricanes and Tropical Storms are prepared by the National Weather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

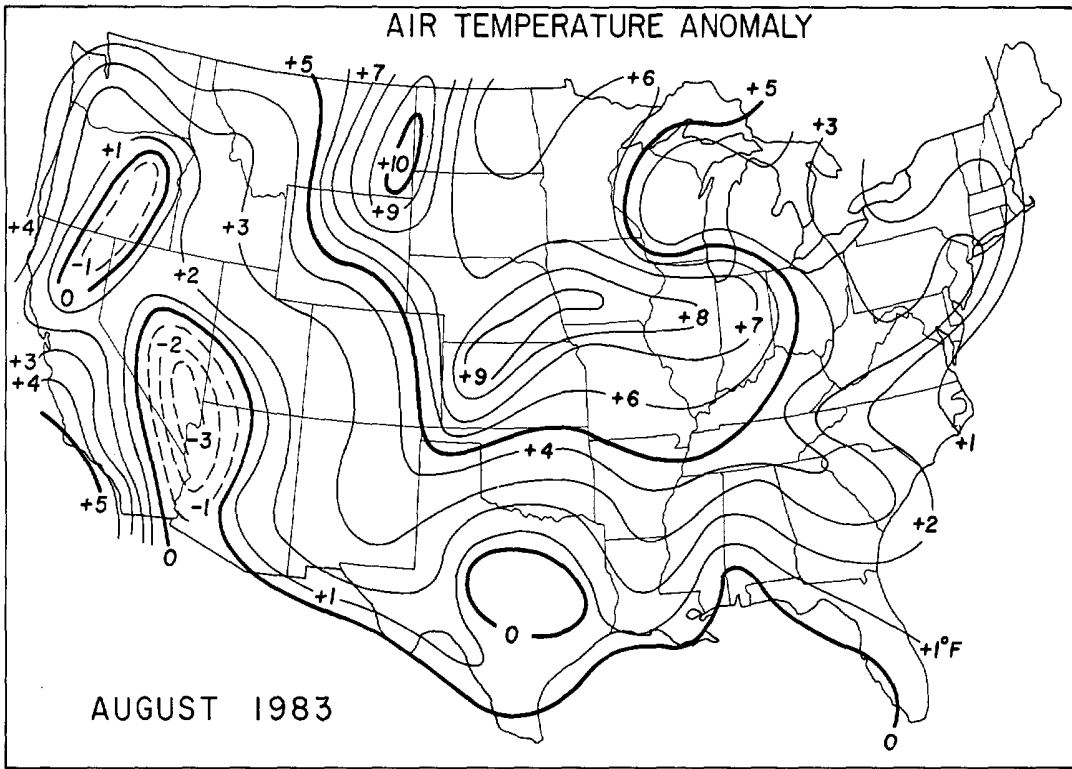
STORM DATA - (ISSN 0039-1972) is published monthly. Subscription, pricing, and ordering information is available from: Publications Section (E/CC413), The National Climatic Data Center, National Environmental Satellite, Data, and Information Service, NOAA, Federal Building, Asheville, NC 28801-2696.

# OUTSTANDING STORMS OF THE MONTH



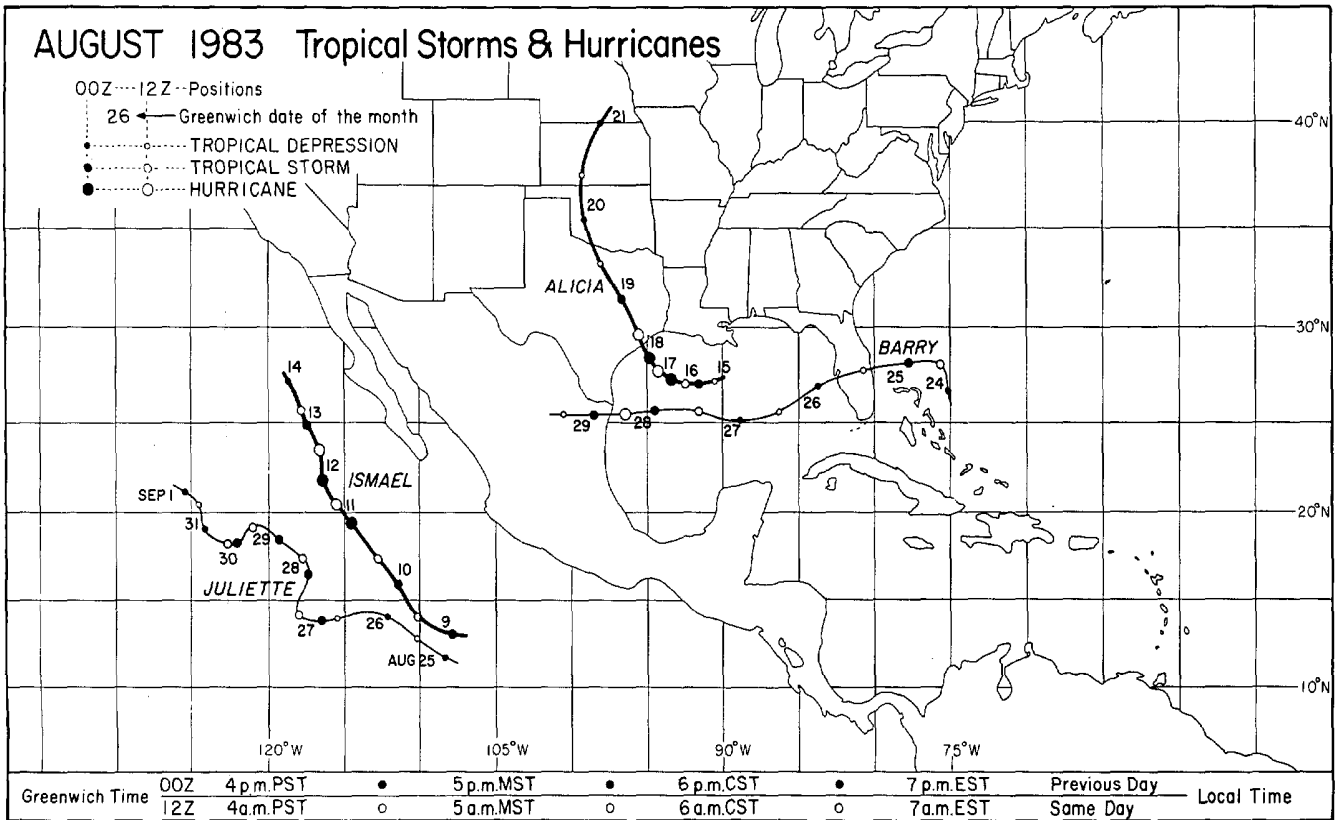
<ul style="list-style-type: none"> <li>● COMPLETE REPORT RECEIVED</li> <li>○ PRELIMINARY REPORT RECEIVED</li> <li>○ REPORT NOT RECEIVED</li> </ul> <p>(N) northern (W) western                  (S) southern (C) central                  (E) eastern (O) coastal                  (SE) southeastern</p>	<table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

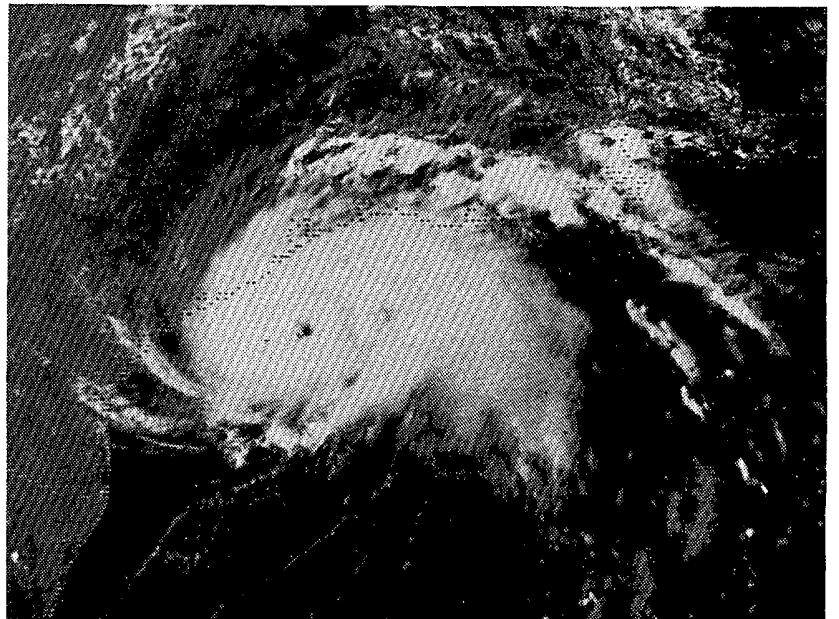
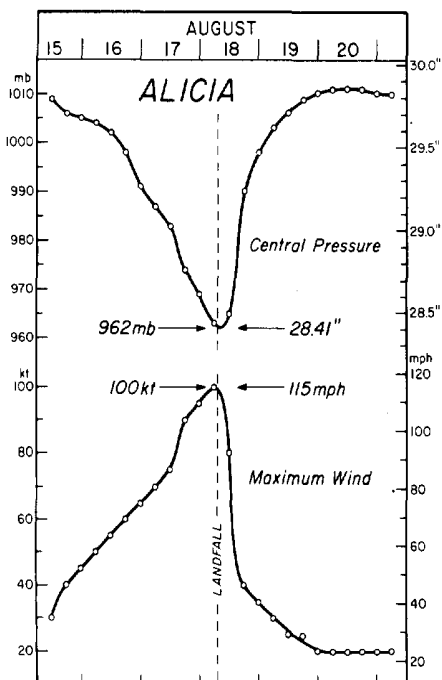
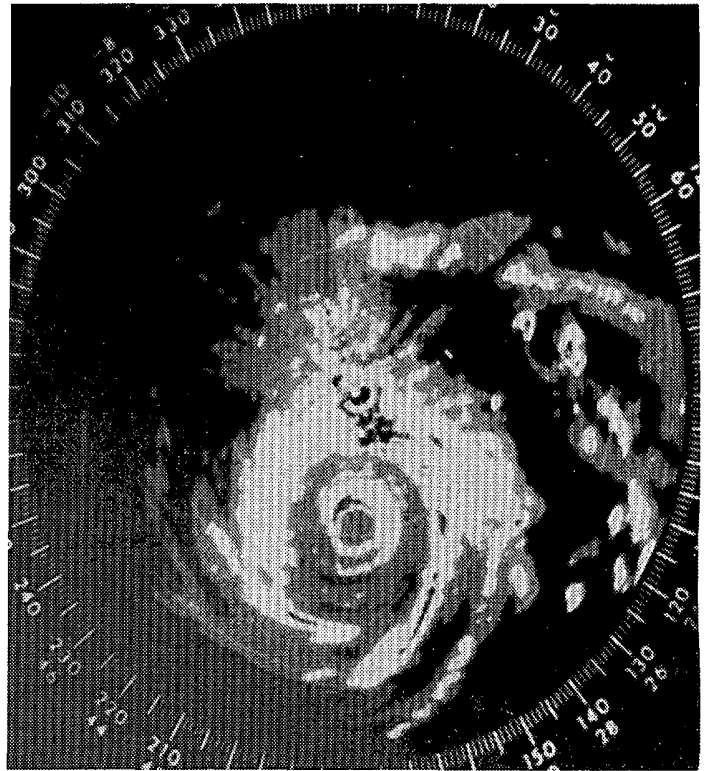
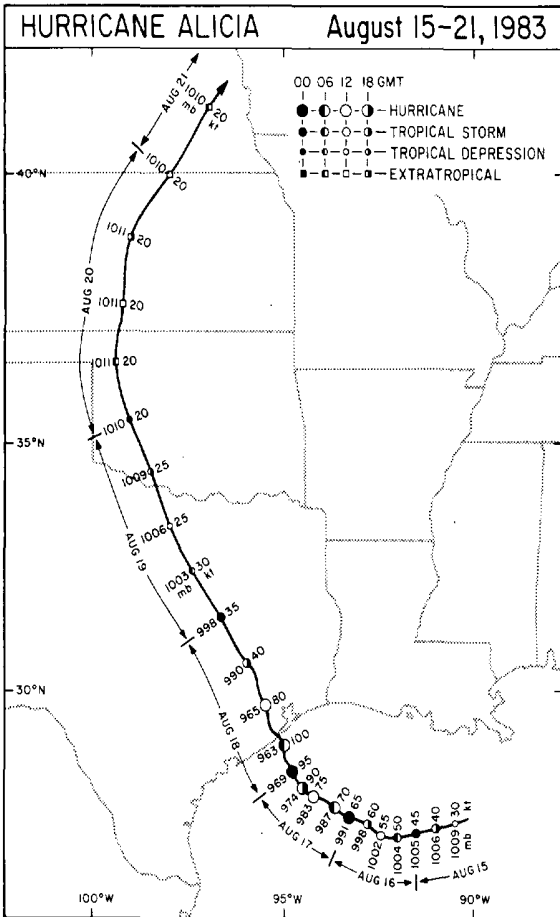
## TROPICAL STORMS AND HURRICANES



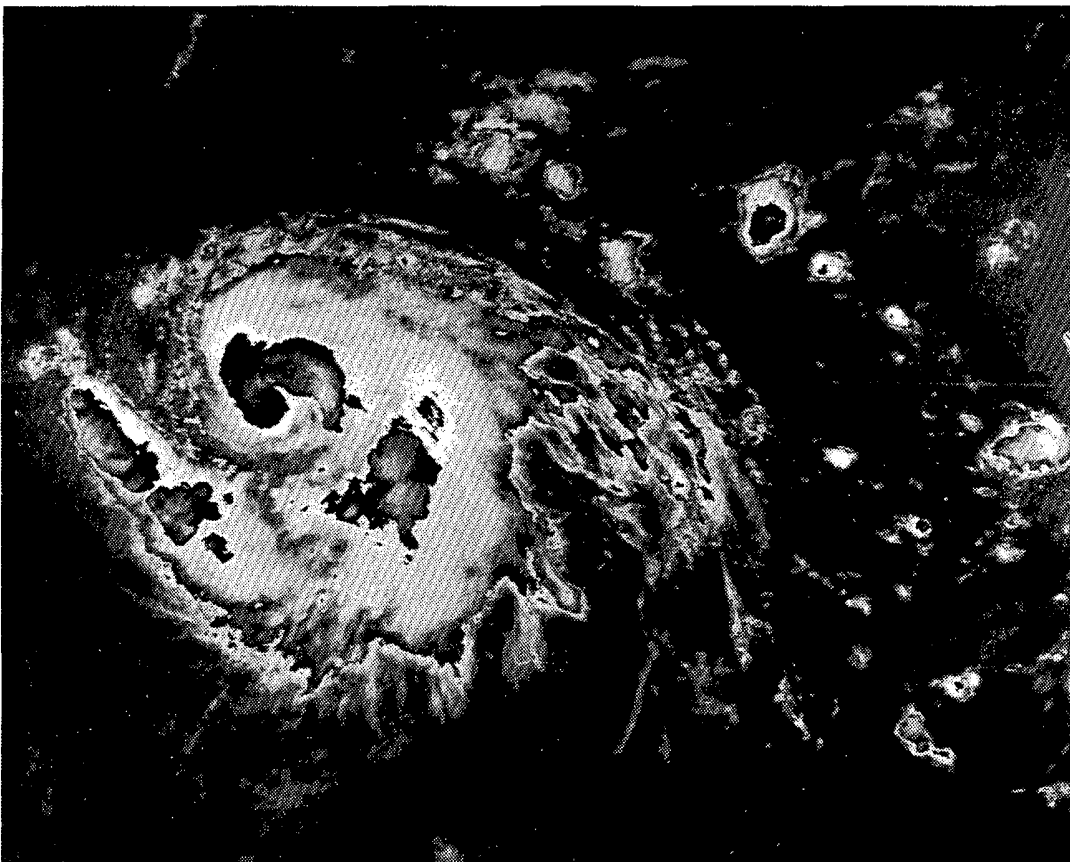
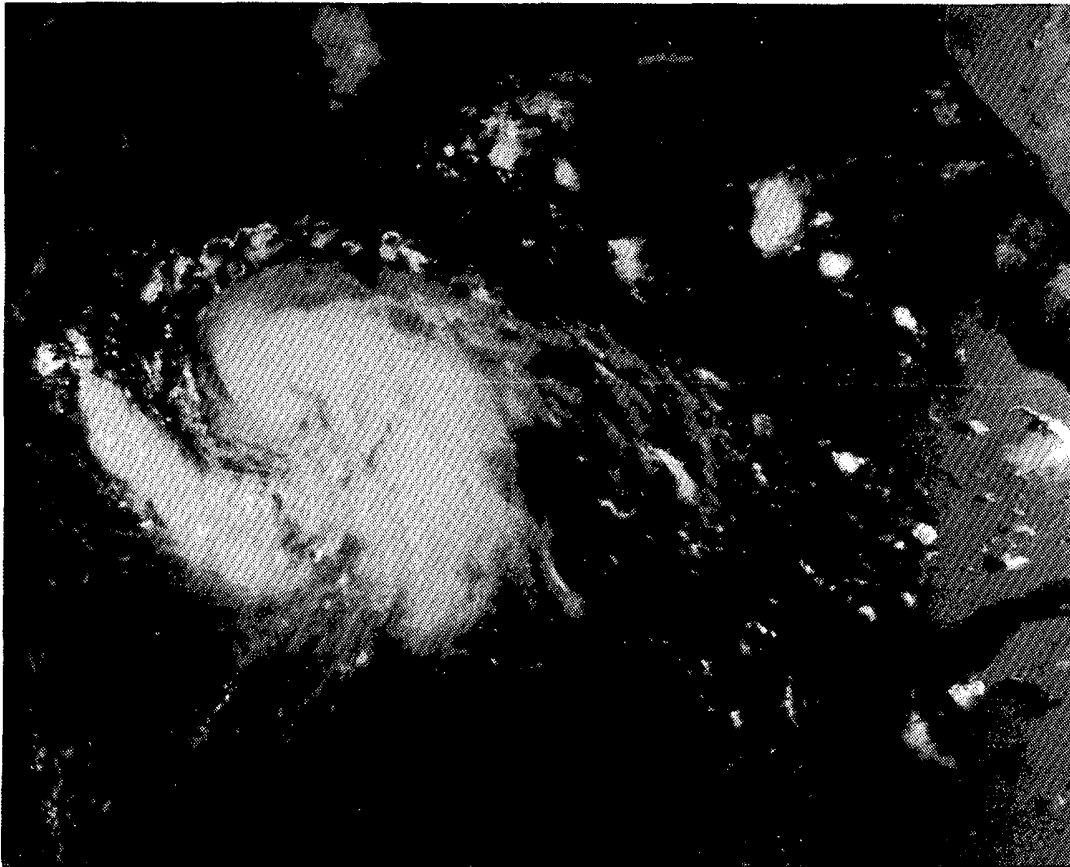
---Best track data supplied by National Hurricane Center, Miami, Florida and NWSFO, San Francisco, California.

# 1. HURRICANE ALICIA on August 15-21, 1983

Hurricane ALICIA was the first hurricane to make landfall in the continental U.S. in three years, and one of the costliest in Texas history. ALICIA caused widespread damage to a large portion of southeast Texas including coastal areas near Galveston and the entire Houston area. Forming in the Gulf of Mexico about 175 miles south of New Orleans on August 15th, ALICIA slowly moved west then northwest, intensifying to hurricane strength before making landfall on the western end of Galveston Island. Slow to weaken during landfall, ALICIA gradually lost strength once inland and moved northward through Texas, Oklahoma and Kansas before becoming disorganized in Nebraska on August 21st. ---Best track data from NHC, Miami, Florida.



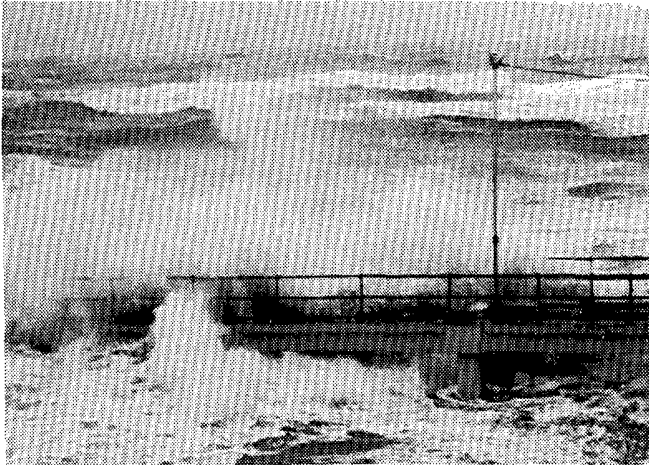
HURRICANE ALICIA ---- continued



Visible (top) and infrared pictures taken simultaneously from the NOAA 7 polar-orbiting satellite show ALICIA at 1745 CST (1345 GMT) on August 16th. Note that Florida and Cuba can be seen in the early morning light on the right edge of the visible photo. ---Photos supplied by Linwood F. Whitney, Jr., NESDIS.

## HURRICANE ALICIA ---- continued

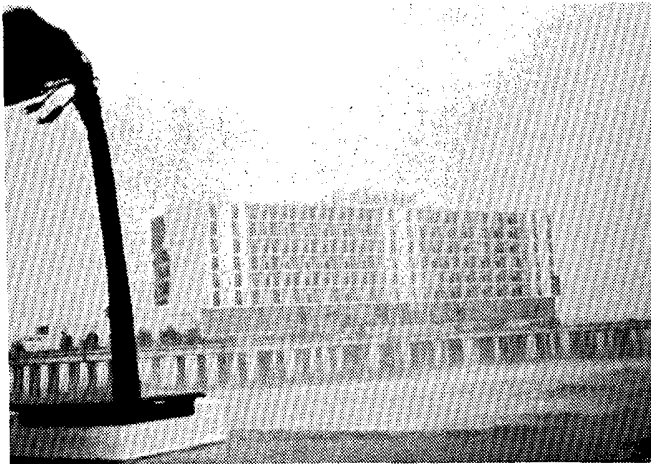
The pictures below were taken by Barbara White and Al Wooten on Galveston Island as ALICIA made landfall. The two storm chasers made a special trip from Florida to ride out the storm and record ALICIA's destructive fury as it happened.



Crashing waves over the fishing pier of the Flagship Hotel taken at 1245 CST on August 17th.



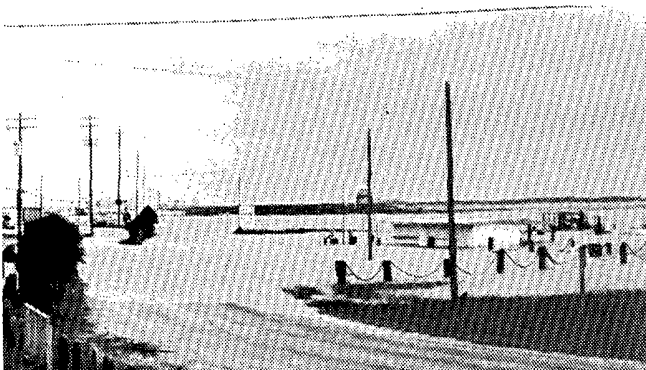
Strong gales blowing water over a fishing pier just north of the Flagship Hotel. Photo taken at 1830 CST on August 17th.



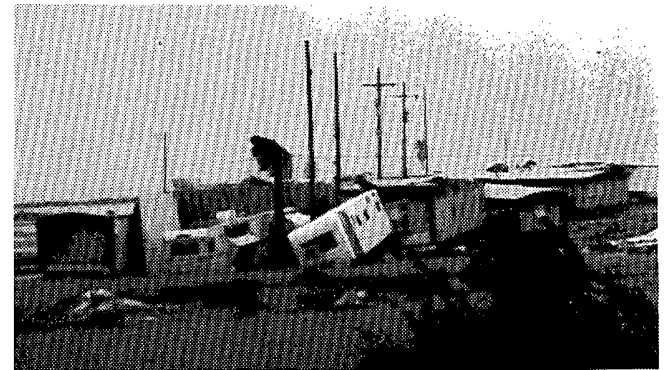
The Flagship Hotel at 0630 CST on August 18th after a nightlong battle with ALICIA resulted in part of it's exterior wall being blown off.



A man attempts to walk in intense wind and rain past a damaged building along Seawall Boulevard, immediately paralleling the shore. Time: 0700 CST, August 18th.

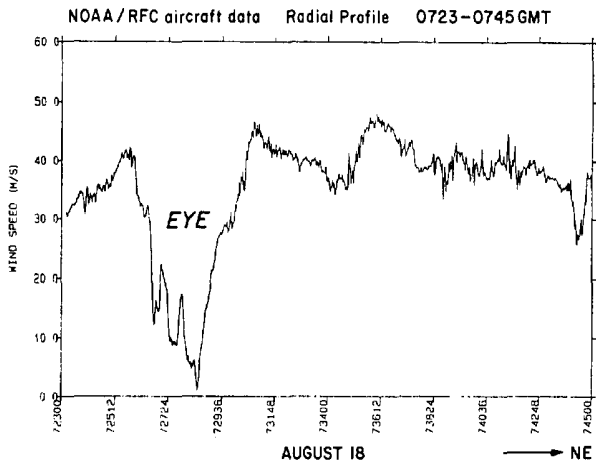
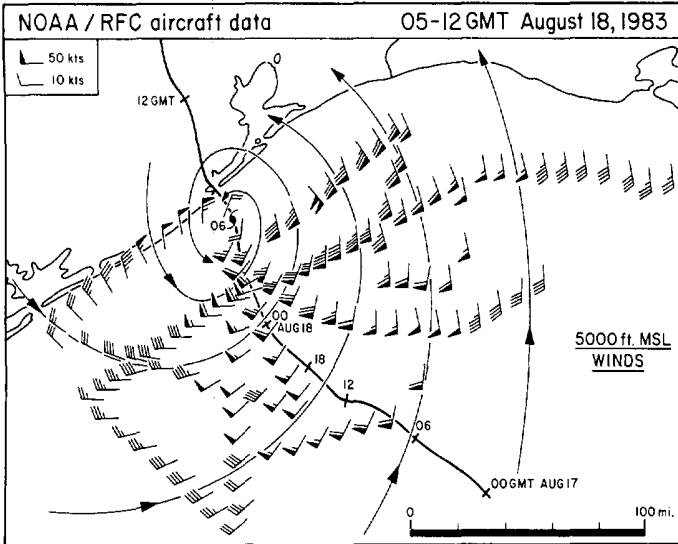


A bait and tackle shop engulfed in tidal flooding before the storm at 1100 CST on August 17th. The shop was completely washed away by the following morning.



A trailer park, built on the beach below a protective seawall, was totally demolished by the storm surge. Time: 0725 CST, August 18th.

HURRICANE ALICIA ---- continued

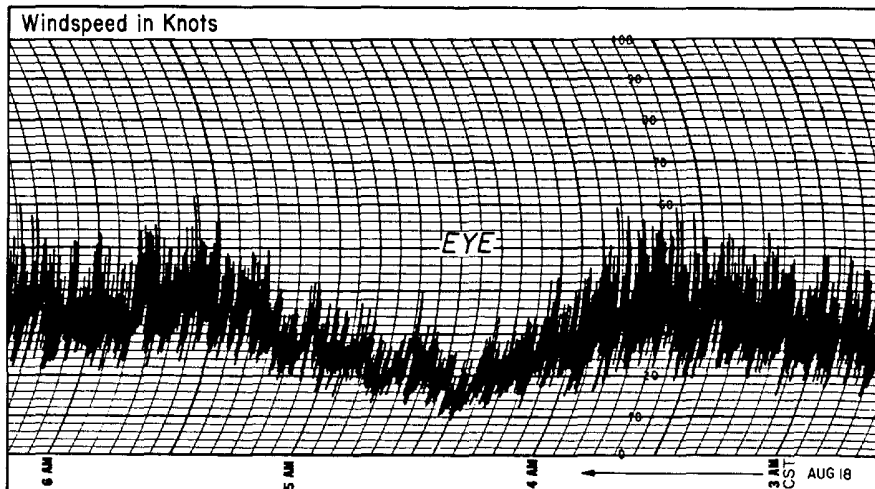


Streamline analysis of ALICIA's winds as recorded by NOAA/RFC penetration aircraft at a 5000 ft. MSL flight level. The figure is a composite of several fly-throughs conducted over a 5 hour period, with data adjusted to ALICIA's 0600 GMT, August 18th position.

A radial profile of 5000 ft. MSL winds vs. time during a 22-minute period of a penetration flight through the eye of ALICIA.

---NOAA/RFC aircraft data and analysis courtesy of Peter G. Black and Howard A. Friedman, AOML/Hurricane Research Division.

Barograph and Gust Recorder Traces from Alvin, Texas WSO during Hurricane ALICIA



ALICIA's eye passed very near the Houston Area NWSO at Alvin, as is evident by the pressure and wind traces above. The pressure reached a minimum of 28.55 inches (966.7 mb) at 0425 CST on August 18th, while the winds weakened for more than an hour. ---Original traces supplied by NWSO, Alvin, Texas.

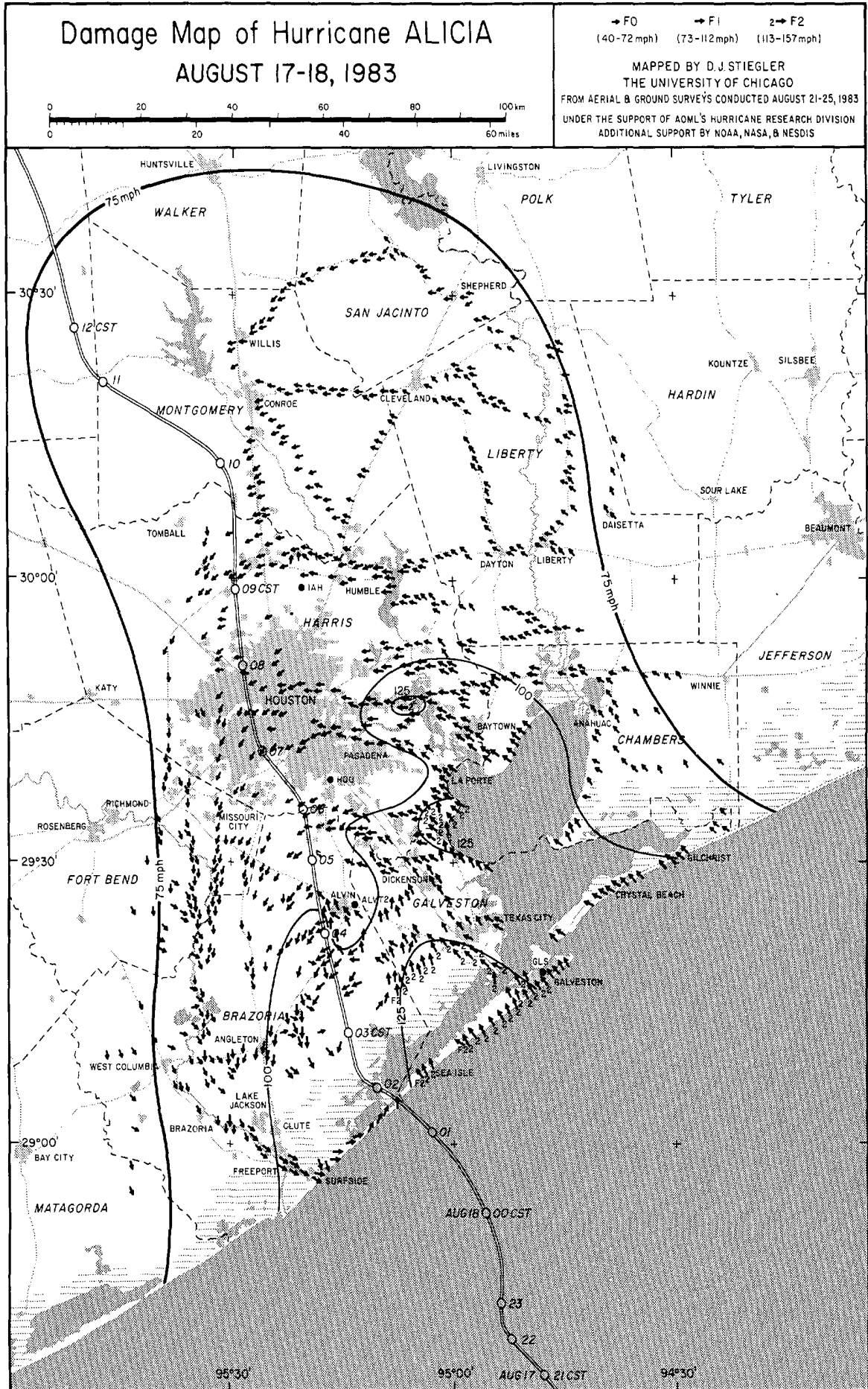
COASTAL TIDE STAGES FOR HURRICANE ALICIA

Port Isabel	1.5 feet	Morgan Point (Galveston Bay)	12.1 feet
Corpus Christi	1.5 feet	Anahuac (Trinity Bay)	8.2 feet
Matagorda	4.2 feet	Moss Bluff (Trinity River)	4.8 feet
Galveston Island South End	12.0 feet	Sabine Pass	4.2 feet
Galveston Island North End	9.0 feet		

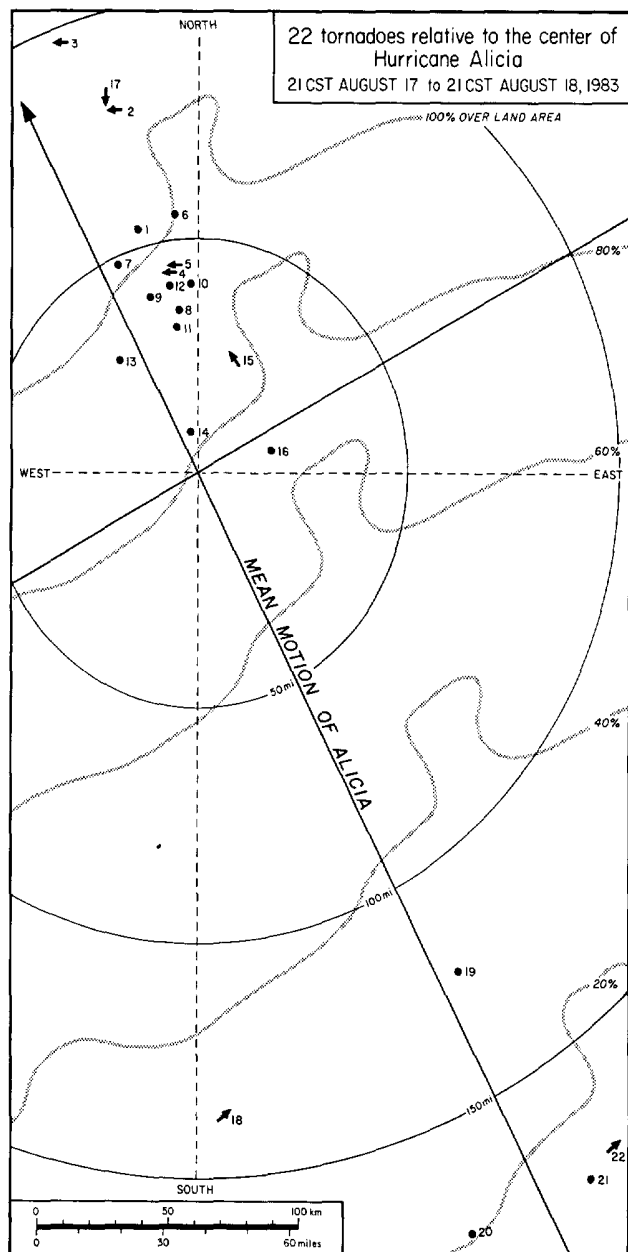
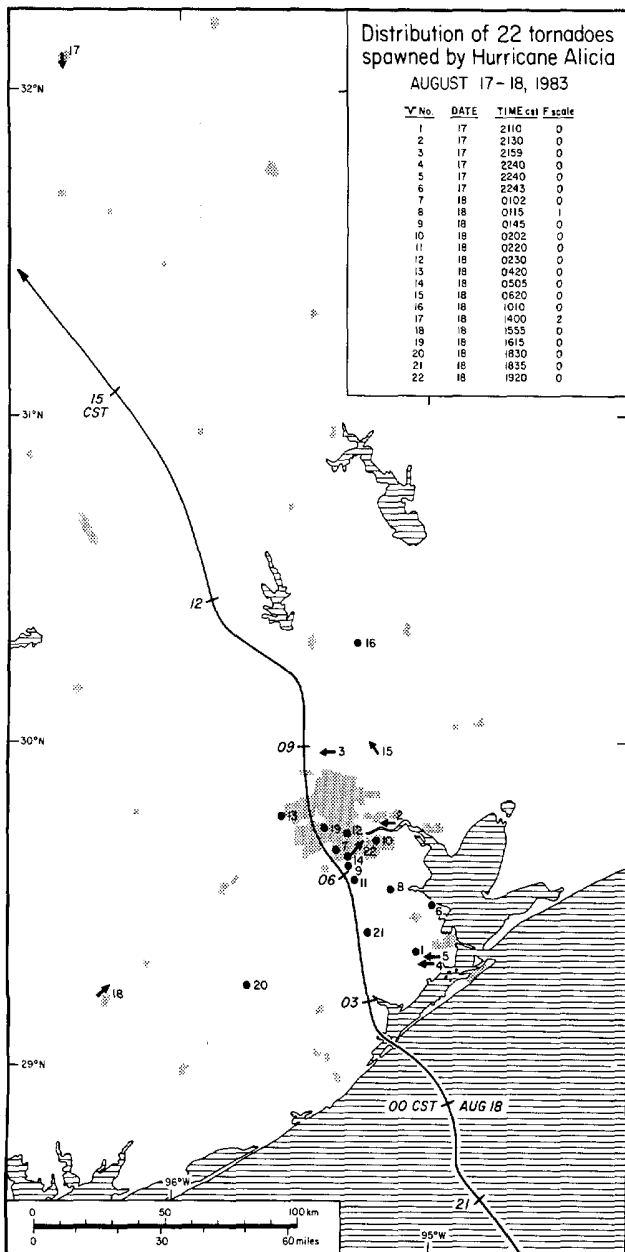
---Tide stage table provided by NWSFO, San Antonio, Texas.



HURRICANE ALICIA ---- continued



# HURRICANE ALICIA ---- continued



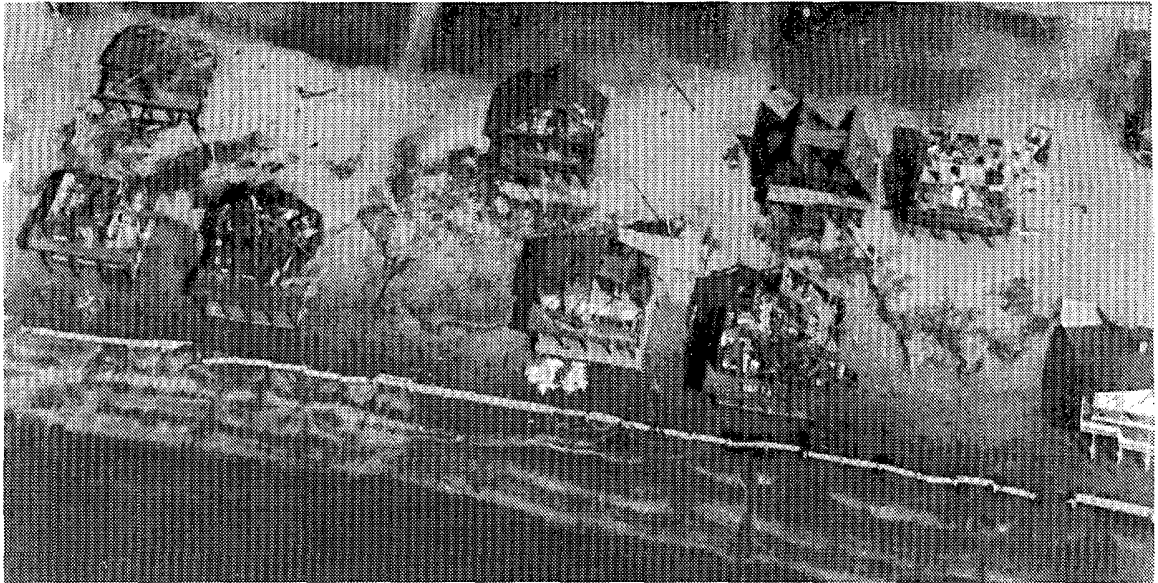
ALICIA spawned 22 tornadoes in less than 24 hours during landfall. The tornadoes, mapped and numbered chronologically above, are shown both by geographic location (left) and storm relative position (right). Grey lines in the right map represent the percent of the time period that that portion of ALICIA was over land. ---Data from NWSFOs at San Antonio and Ft. Worth, Texas. Mappings by University of Chicago.



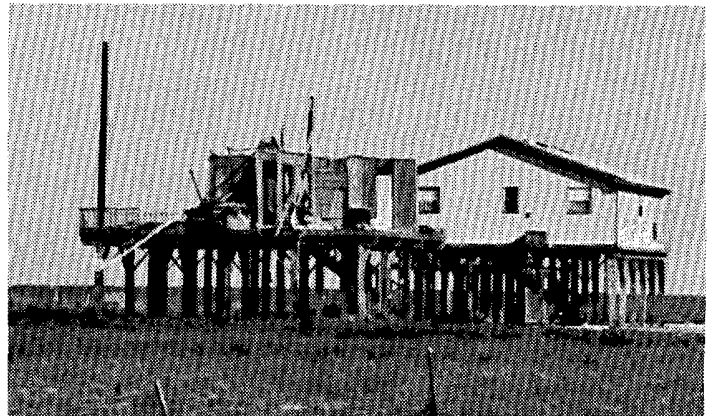
Trailer damage near Jamaica Beach (left) and beach erosion east of Surfside due to the storm surge (right). ---Both photos courtesy of Joseph Golden, NOAA/ERL.

HURRICANE ALICIA ---- continued

Although most beach homes on Galveston Island were protected against the storm surge by having been built on stilts, many still succumbed to ALICIA's winds as pictured below. ---All photos by Duane Stiegler, University of Chicago.



Beachfront homes at Sea Isle, many with roofs blown off and walls collapsed.



Wind-destroyed homes at Jamaica Beach, about 11 miles southwest of Galveston. Note that in the right photo, one home was blown apart while an adjacent home of the same design and construction appears untouched.



A beachfront home at Pirates' Beach, about 8 miles southwest of Galveston.

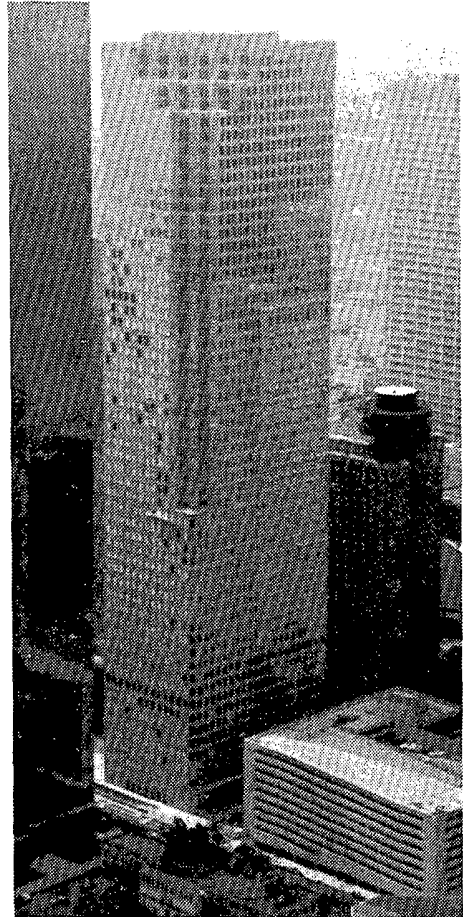


Storm surge erosion of a roadway on the inland side of Seawall Boulevard in Galveston.

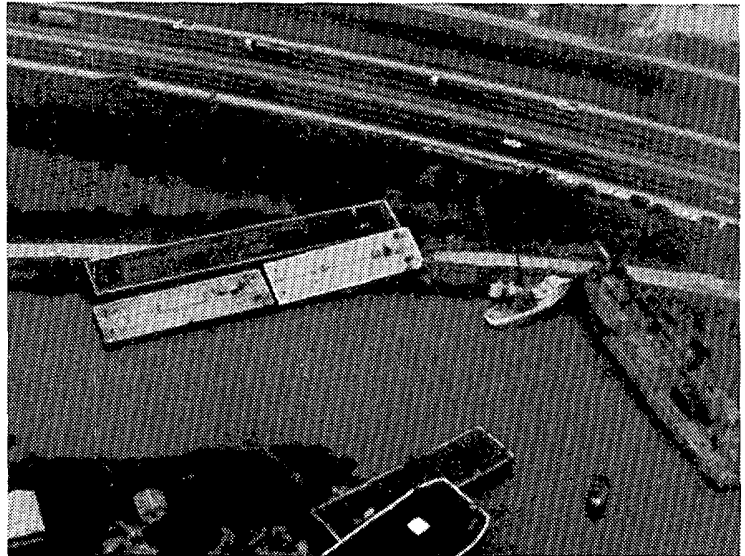
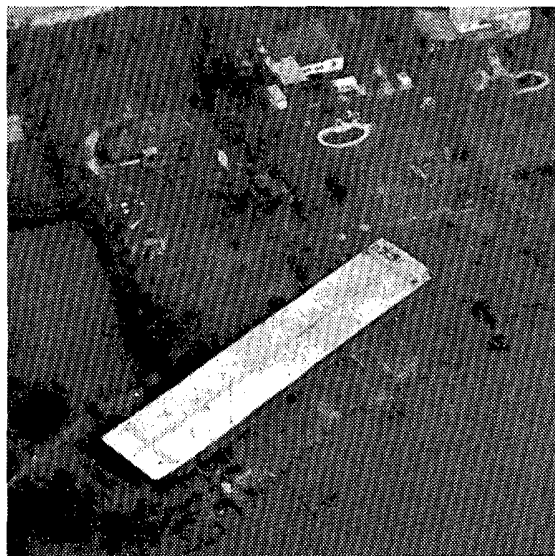
HURRICANE ALICIA ---- continued



LEFT: Roofing torn from a hotel in Galveston.



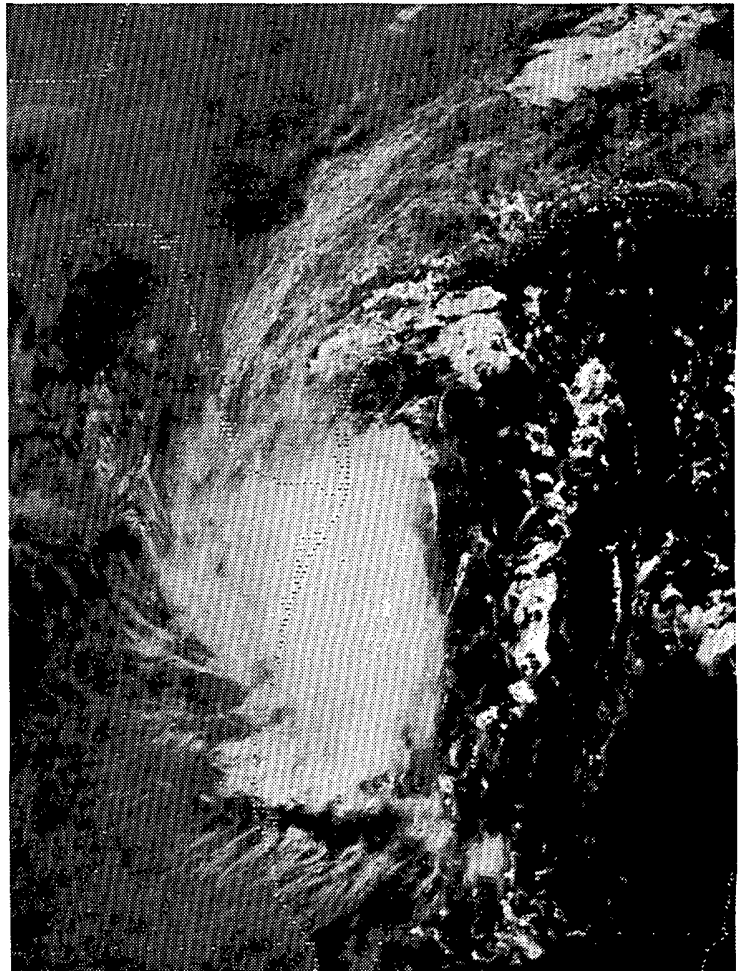
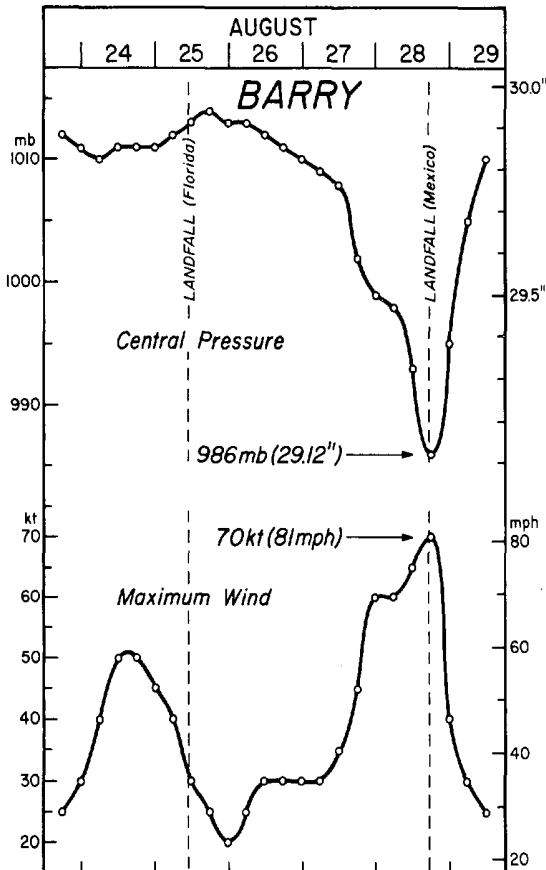
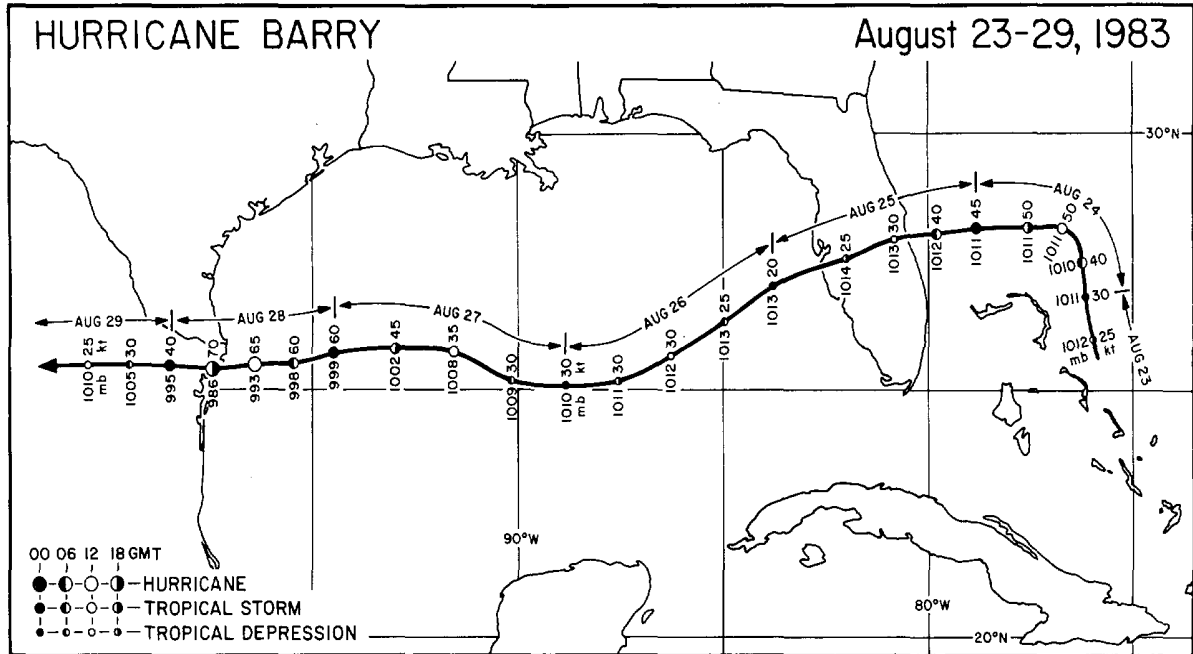
The skyscrapers of Downtown Houston with numerous windows boarded up. It is likely that the majority of the broken panes were caused by the impact of flying debris.



Barges washed ashore by the storm surge near Channelview, 15 miles east of Houston, were found to be occupying someone's back yard (left) and blocking a road paralleling Interstate 10 (right). ---All photos by Duane Stiegler, University of Chicago.

## 2. HURRICANE BARRY on August 23-29, 1983

Barry formed from a tropical disturbance in the Atlantic Ocean and became a tropical storm near the Bahamas as it turned westward toward Florida. On August 25th, BARRY made landfall and weakened as it crossed the Florida peninsula and moved into the Gulf of Mexico. Continuing westward, BARRY reintensified and became a hurricane just prior to making a second landfall. BARRY went ashore in Mexico on August 28th and quickly dissipated as it moved inland. ---Best track data and satellite photo from National Hurricane Center, Miami, Florida.



RIGHT: A GOES East visible image shows BARRY just prior to landfall in Mexico at 0901 CST (1501 GMT), August 28th.

### 3. FLASH FLOOD at LAS VEGAS, NEVADA on August 10, 1983

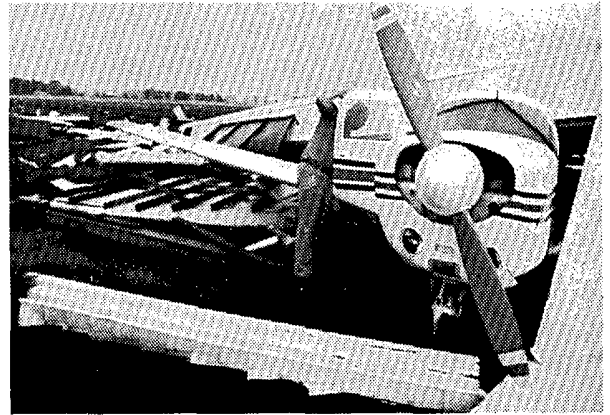
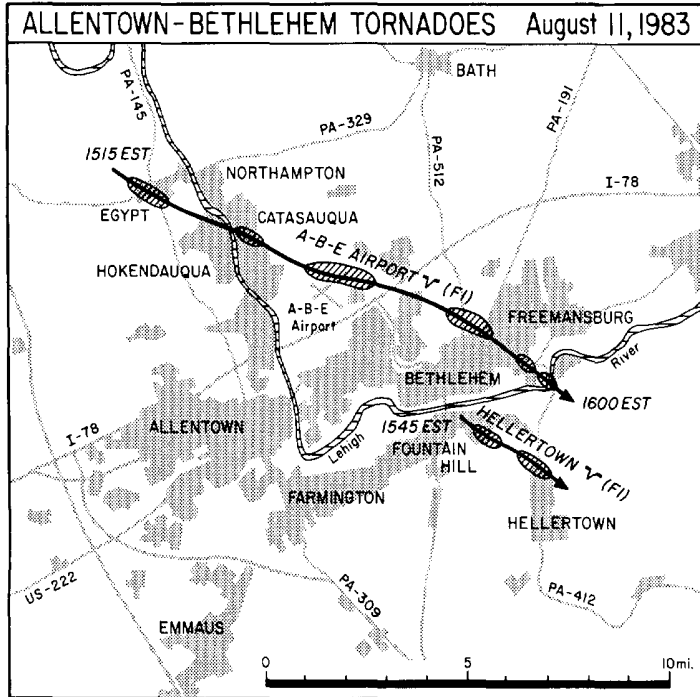
On August 10th, heavy thunderstorms moving from south to north across the Las Vegas Valley caused flash flooding that damaged approximately 50 autos and 150 homes in the area. The heaviest rain occurred west of the city where the Flamingo and Las Vegas Washes became swollen beyond capacity. The two washes flow through the city from west to east. As a result, most roads in and around Las Vegas had to be closed for some period during the day. ---Data supplied by NWS0, Las Vegas, Nevada. Photos from the Las Vegas Sun.



#### 4. WINDSTORMS in EASTERN PENNSYLVANIA on August 11, 1983

##### 4a. ALLENTOWN-BETHLEHEM TORNADES

On the afternoon of August 11th, two tornadoes touched down in the vicinity of Allentown, Pennsylvania causing intermittent damage along their paths. The heaviest damage was at the Allentown-Bethlehem-Easton Airport, where 20 aircraft and 15 hangars were either damaged or destroyed. Although the strongest damage was rated only F1 on the Fujita scale, the monetary damage was estimated to be up to \$10 million.



A man checks out the damage to a plane caught in the rubble of a hangar on the north side of A-B-E Airport. ---Photo by Jim Battles, The Allentown Morning Call.

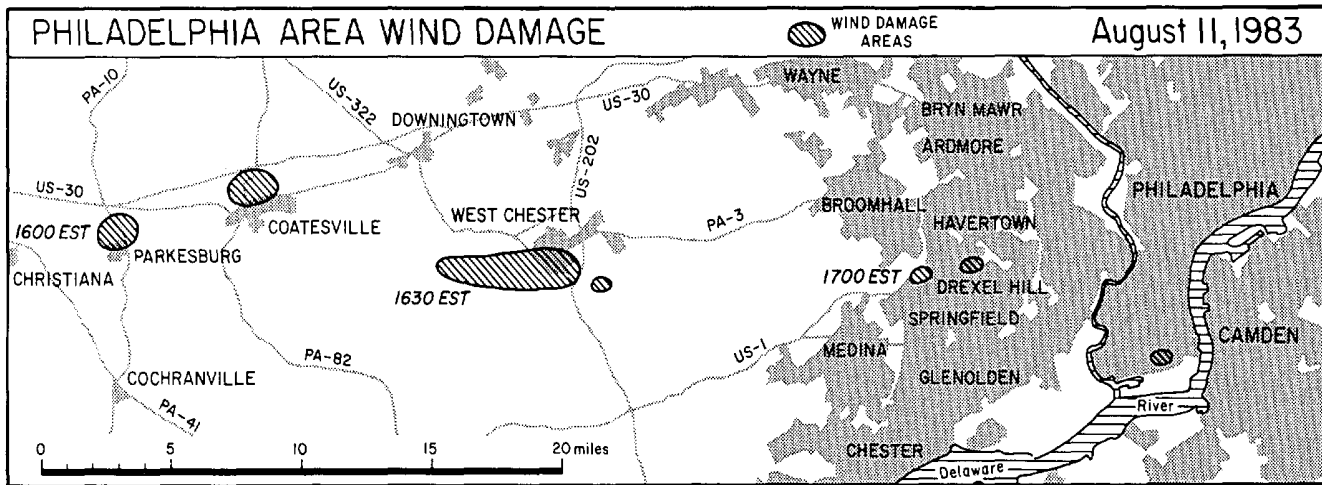
---Mapped by NWSO, Allentown, PA and NWSFO, Philadelphia, PA.



Debris from the damaged roof of a manufacturing plant litters the adjacent parking lot. The location is an industrial park near the A-B-E Airport. ---Photo by Jim Battles, The Allentown Morning Call.

#### 4b. DOWNBURSTS in the PHILADELPHIA AREA

Also on August 11th, heavy thunderstorms produced downburst wind damage in areas west of Philadelphia. Hardest hit was West Chester where 39 buildings were either damaged or destroyed from being struck by falling trees and flying debris, or from the weight of the wind itself. ---Mapping by NWSFO, Philadelphia, Pennsylvania.



A debris filled Church Street in West Chester after the roof of a nearby building had been ripped off by the wind. One of the beams pierced the hood of a parked car.

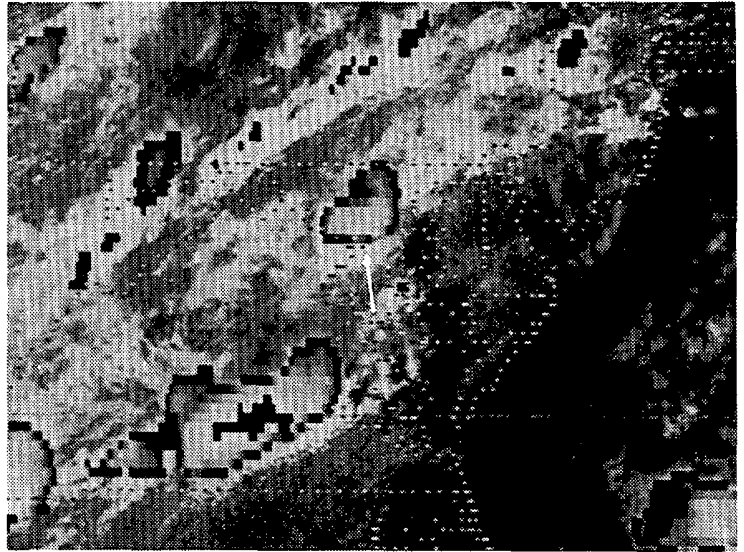
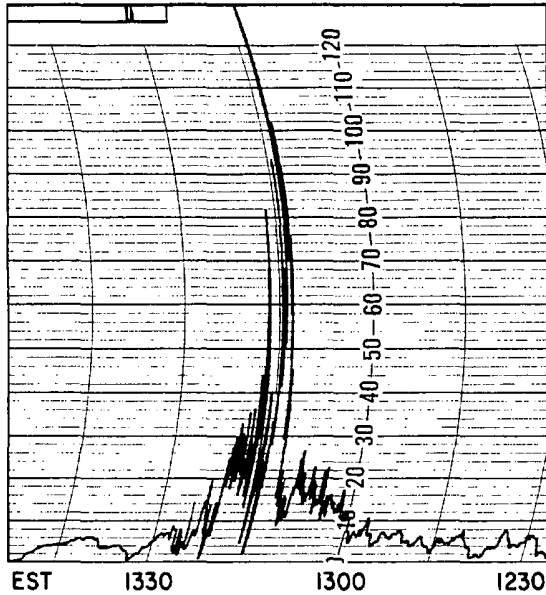


A collapsed warehouse (left) and wind-torn porch roof (right) in West Chester. ---All photos from Chester County's Daily Local News.



5. MICROBURST at ANDREWS AFB on August 1, 1983

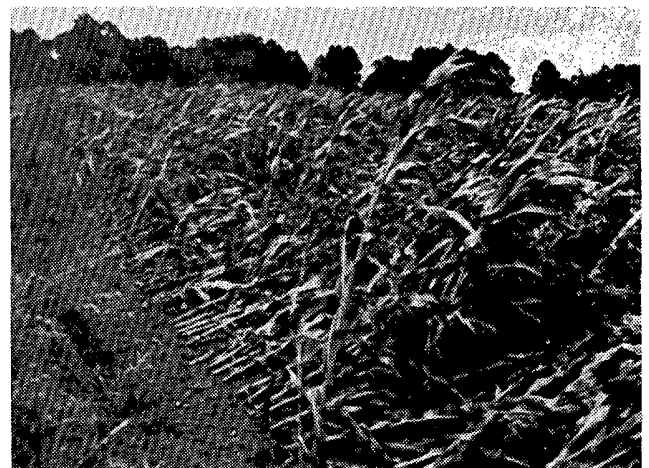
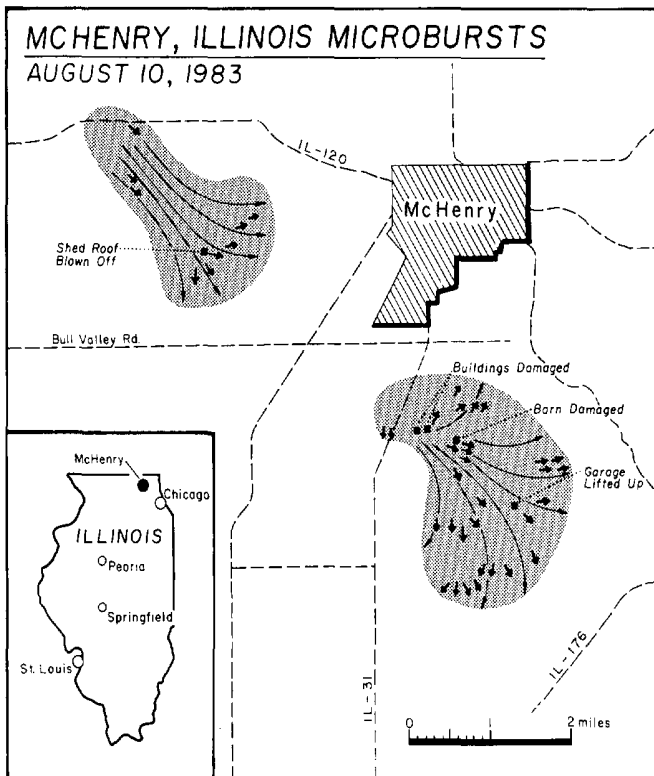
At 1310 EST on August 1st, a strong microburst swept across Andrews Air Force Base east of Washington, D.C. Although the base anemometer is not calibrated at extreme windspeeds, the peak gust hit the top of the chart at 129.3 kts (149 mph). It was reported that Air Force One, with President Reagan on board, landed less than 10 minutes prior to the peak gust. ---Satellite photo from NESDIS. Chart from USAF.



Anemometer record (left) and GOES East satellite photo at 1300 EST (right).

6. MICROBURST at McHENRY, ILLINOIS on August 10, 1983

Between 1700 and 1900 CST on August 10th, thunderstorms over northeast Illinois produced two areas of microburst damage near McHenry. The areas, surveyed by Brian Smith, University of Chicago, and Barry Valentine, McHenry Co. ESDA, included damage to farm structures (below right) and the flattening of corn crops (bottom right).



---Map and photos by Brian Smith, University of Chicago.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1983

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

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

## ALABAMA

## ALABAMA

Mobile, Mobile County	01	0508CST	0	0	?	0	0	0	Lightning
Lightning strikes touched off 3 fires within a few minutes. The first strike damaged a vacant house. The second strike hit the electric meter of a building, but the fire was quickly extinguished with no further damage. The third strike caused a fire that damaged a home.									
Florence area, Lauderdale County	05	1305CST	0	0	5	0	0	0	Thunderstorm
Thunderstorm winds destroyed a warehouse, ripped the roof from an adjacent building and did other damage at a concrete mixing plant. Debris was scattered over a large area. Heavy rains also ruined about 1000 bags of mortar that had been stored inside the warehouse. Trees and powerlines were downed in other parts of the city. Some of the trees were reported to have been downed by lightning. Pea size hail was reported with the storm.									
Mobile, Mobile County	05	1323CST	0	0	?	0	0	0	Wind
Thunderstorm winds gusted to 58 mph at the Mobile Airport.									
Chambers County	05	1449CST	0	0	3	0	0	0	Lightning
Lightning strikes hit two homes and knocked down 5 large trees. The first strike hit a home in Shavmut where the charge ignited a sofa in the living room after arcing some 2 feet from a disconnected TV antenna wire. The occupant of the room was not injured. The second strike occurred about half an hour later in Fairfax where the lightning bolt ignited a bed after blasting part of the siding from an outer wall.									
Jefferson County	05	1507CST	0	1	4	0	0	0	Wind
Thunderstorm winds gusted to 67 mph at the National Weather Service Office on Oxmoor Road. Damage in the area included signs blown down, some windows broken and widespread power outages. A temporary roof cover was blown off a building under construction at University Hospital. The roof sailed some 70 feet before dropping 6 stories. One man suffered minor cuts when the roof struck a concourse on the way down. A car was damaged on the street below.									
Bessemer, Jefferson County	05	1529CST	0	0	5	0	0	0	Wind
Thunderstorm winds downed some trees and powerlines and damaged a shed and a pickup truck. A 4.5 ft. in diameter tree pulled down a main powerline in an area about 2 1/2 blocks long as it fell across the system.									
Foley, Baldwin County	05	1600CST	0	0	?	0	0	0	Wind
Foley police reported damaging winds in a severe thunderstorm just north of Foley.									
Castleberry, Conecuh County	05	1730CST	0	0	2	0	0	0	Wind
Thunderstorm winds downed some trees.									
Fairhope, Baldwin County	06	1340CST	0	0	?	0	0	0	Wind
Thunderstorm winds gusted to 69 mph at the Fairhope Airport.									
Jefferson County	06	1355CST	0	0	1	0	0	0	Wind
Some trees were reported downed by thunderstorm winds in the Rock Mountain Lake Area in south Jefferson County.									
Gurley, Madison County	06	1743CST	0	0	?	0	0	0	Hail
Hail to golf ball size reported.									
Hamilton, Marion County	06	1940CST	0	0	3	0	0	0	Wind
Downburst winds downed about 25 trees in an area about 1/4 mile wide on both sides of U.S. 278 in East Hamilton. One tree fell across the carport of a home under construction. One car was also damaged by a falling tree.									
Arley, Winston County	06	2010CST	0	0	4	0	0	0	Wind
Thunderstorm winds damaged the roofs of several homes and a manufacturing plant and downed trees and powerlines. Intense lightning was reported with the storm.									
Cullman County	08	1200CST	0	0	?	0	0	0	Thunderstorm
Thunderstorm winds blew a tree down on a car in Fairview and ripped the awning off a store in Holly Pond. Lightning hit a school in Fairview and the charge ran into the school office but no one was injured. Lightning strikes also knocked out power in part of Cullman where some street flooding was reported.									
Bessemer, Jefferson County	08	1535CST	0	0	?	0	0	0	Thunderstorm
Thunderstorm winds blew a tree down on a home. Marble size hail and intense lightning accompanied the storm that knocked out power to about half the city.									
Mobile, Mobile County	11	1530CST	0	5	?	0	0	0	Lightning
Five boys, ages 13 and 14, were injured by lightning while riding bicycles in the parking lot of a high school. Two of the victims were hospitalized with one in critical condition. The others were treated and released.									

Cullman County	20	Aftn	0	1	0	0	0	0	Lightning
After twice taking shelter to avoid danger, a golfer was injured by a lightning strike. The golfer had thought that the weather was clearing and had returned to the course when the lightning bolt hit. Others in the foursome were already in their carts and were not injured. Some other golfers felt the charge on other parts of the course but were not injured. The charge was thought to have followed the irrigation system. The injured man had no visible burn marks but suffered internal injuries and remained in an intensive care unit for two days.									
Montevallo, Shelby County	22	1400CST	0	1	2	0	0	0	Lightning
A woman was injured by lightning while in front of the bookstore where she is employed. The lightning bolt hit a pine tree about 5 feet from where she was standing. The woman stated that "it (the lightning) went down the tree from top to bottom and knocked me flat on my face." She was able to get up and walk into the bookstore to get help. She was then taken to a doctor and later went home. The lightning also shattered a window in the bookstore about 20 feet away and knocked out power in the area.									
Bibb County	22	1437CST	.3	70	0	0	5	0	Tornado (F1)
A tornado that touched down about 1 1/2 miles south of Woodstock destroyed a mobile home and a barn, and damaged a home, a barn and a mobile home. Trees up to 4 feet in diameter were uprooted and snapped off. Hail to 3/4 inch in diameter accompanied the storm.									
Jefferson County	22	1442CST	0	0	?	0	0	0	Thunderstorm
Following a record high temperature of 101° for the date severe thunderstorms developed in the Birmingham area. Winds gusted to 55 mph at the National Weather Service on Oxmoor Road at 1440CST. As the thunderstorms drifted west, hail to 3/4 inch in diameter was reported in Homewood, along Valley Avenue and near the University of Alabama campus on Birmingham's southside. Marble size hail was reported at Hueytown and hail slightly larger than marble size was reported at Graysville. A window was reported blown out of a bank in Homewood.									
Sumiton, Walker County	22	1500CST	0	0	?	0	0	0	Thunderstorm
Trees were reported downed by thunderstorm winds. Marble size hail was also reported.									
Bibb County	22	1524CST	0	0	?	0	0	0	Thunderstorm
Thunderstorm winds downed trees and powerlines mainly in the area around West Blocton. Power was reported out over a wide area. Hail to 3/4 inch in diameter was reported.									
Morgan County	22	1630CST	0	0	?	0	0	0	Hail
Hail the size of quarters reported during a severe thunderstorm at Hartselle.									
Madison County	22	1730CST	0	0	?	0	0	0	Thunderstorm
After a record high temperature of 102° for the date at Huntsville, and a record demand for electric power, severe thunderstorms caused the second largest power outage ever in Madison County. Lightning strikes were blamed for most of the outages but large hail and strong winds also accompanied the thunderstorms. Hail to golf ball size was reported at Madison at 1710CST. Trees and powerlines were downed in the Huntsville area around 1705CST. Windows were blown out of some houses, shingles off some roofs and trees were downed in the Hazel Green area at 1600CST.									
Madison County	23	1600CST	0	0	?	0	0	0	Thunderstorm
Severe thunderstorms hit the Madison County area for the second day in a row. Hail 3/4 inch in diameter was reported in the Huntsville area with damage to automobiles. Strong winds downed trees in several areas. Lightning and strong winds caused power outages. Some areas again lost service that had just been restored following damage from the storm of the day before.									
Colbert County	25	1330CST	0	0	?	0	0	0	Wind
Thunderstorm winds unroofed a metal building in Spring Valley, just south of Tusculum.									
Cullman County	25	1430CST	0	0	4	0	0	0	Wind
Thunderstorm winds blew a tree down on a car that was traveling along the highway one mile north of Holly Pond but no injuries were reported. The winds also downed some trees and powerlines and damaged a chicken house.									
Centreville, Bibb County	25	1500CST	0	0	4	0	0	0	Wind
Thunderstorm winds blew out the plate glass window of a store, damaged the roofs of at least two buildings and downed some trees and powerlines. Intense lightning accompanied the storm and electrical power was knocked out over most of southern Bibb county.									
Etowah County	25	1710CST	0	0	?	0	0	0	Wind
Thunderstorm winds were reported to have downed powerlines in the Canoe Creek area.									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1983

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>ALABAMA</b>									
Jefferson County	25	Aftn-Eve			1	2	?	0	Thunderstorms
Several very heavy thunderstorms moved over the Birmingham area during the late afternoon and early evening. At 1520CST strong downburst winds downed trees along a narrow strip from the Bluff Park area to near Wenonah. One falling tree damaged a house in Bluff Park and the winds also ripped away part of the sheet metal roof of a manufacturing plant. Wind gust to 52 mph were recorded at the National Weather Service on Oxmoor Road. At 1605CST a man was injured by a lightning strike in Hoover. The man was standing on the porch when lightning hit a tree about 10 feet from where he was standing and the charge caused burns on the victim from the base of his neck to his legs. At 1755CST one man was killed and another man was injured by a lightning strike in North Birmingham. The men had been walking home and sought shelter under a tree from the rain.									
Livingston area, Gunter County	26	1615CST			0	0	?	0	Wind
An apparent downburst downed several pecan trees and ripped the shutters from the windows on the upper floor of a home.									
Montgomery, Montgomery County	28	1243CST			0	0	4	0	Thunderstorm
Thunderstorm winds overturned a mobile home and damaged the roofs on some others, uprooted a tree and destroyed several utility sheds. Intense lightning accompanied the storm.									
Hale County	29	1320CST	2	200	0	0	3	0	Tornado (F1)
An apparent small tornado first touched down near Concord Church along Alabama 60 between Havana and Akron. A witness reported seeing a funnel-shaped cloud with debris in the air. As the storm moved southwest, damage included a tractor shed and a barn destroyed and 20 to 30 trees downed.									
Mobile, Mobile County	29	1527CST			0	0	?	0	Wind
Winds gusted to 58 mph at the Mobile Airport.									
Mobile County	29	Aftn			0	1	4	0	Lightning
Lightning injured one man that was treated and released from a hospital. The lightning strikes also caused at least two fires including one that destroyed a building and one that damaged a mobile home.									
<b>2 ARIZONA</b>									
Lees Ferry, Coconino County	06	Afternoon			0	2	0	0	Thunderstorm, Heavy Rain
Two boys were seriously injured in a rockslide near here, caused by heavy rain.									
Dolan Springs, Mohave County	06	1800MST	0.2	20	0	0	4	0	Tornado (F1)
A small tornado touched the ground and caused a house trailer to explode.									
Kingman, Mohave County	07	0300-0500 MST			0	0	6	0	Thunderstorm, Wind
A severe thunderstorm with winds over 50 MPH overturned seven airplanes at the airport and five tractor-trailers at a nearby industrial park. Several trailer homes were blown over and utility poles knocked down. Total damage estimated at over \$500,000. No injuries were noted.									
Tucson, Pima County	07	1630-1700 MST			0	1	5	4	Thunderstorm, Wind, Hail, Flash Flooding
A severe thunderstorm with winds up to 81 MPH at Davis-Monthan Air Force Base and 77 MPH at Tucson International Airport caused considerable damage. Roofs were blown off houses and businesses; power lines, signs and trees were blown down. Trailer homes were damaged and one man was seriously injured when his mobile home was overturned. Marble size hail fell over the southern and western sections. Several cars were trapped by flash floods in washes.									
Chandler-Tempe, Maricopa County	07	Evening			0	0	5	4	Thunderstorm, Wind
A severe thunderstorm with very strong winds damaged dozens of homes, uprooted trees and knocked down utility poles, signs and fences. The hardest hit was Stellar Airpark where seven planes were damaged. The Kyrene School District Office Building was damaged to the extent of \$75,000.									
Guadalupe, Maricopa County	07	2035MST			1	0	4	0	Thunderstorm, Wind
Very strong winds during a thunderstorm caused minor damage to roofs and porches. An 80-year old woman was struck by the roof and side of a small plywood ramada that was ripped from its foundation. She suffered injuries to her chest, back, arm and face. She died several hours later.									
<b>ARIZONA</b>									
Phoenix, Maricopa County	08	1624MST			0	0	4	0	Thunderstorm, Wind, Hail
A severe thunderstorm with winds gusting to 67 MPH with heavy rain and one-quarter inch diameter hail occurred at Deer Valley Airport in the extreme northern part of Phoenix. There was minor damage to some houses and trailers.									
Phoenix, Maricopa County	08	1718MST	0.2	20	0	0	4	0	Tornado (F1)
During a severe thunderstorm a small tornado touched the ground in extreme western Phoenix and destroyed a barn.									
Greater Phoenix Area, Maricopa County	13	1800-2000 MST			0	0	5	0	Thunderstorm, Wind
A violent thunderstorm moved across the valley from east to west with winds reaching 92 MPH at Falcon Field in Mesa and 69 MPH with visibility 1/8 mile in blowing dust at Sky Harbor International Airport. Two light planes and a helicopter were blown over at Falcon Field. There was damage to houses, trailer homes, power lines, trees and signs. There were a number of storm related traffic accidents, but with no major injuries.									
Superstition Mountains, Pinal County	16	1605MST			1	3	0	0	Thunderstorm, Lightning
A lightning bolt struck four men at a mining camp about one-quarter mile north of Weaver's Needle. One man was killed immediately and another critically injured. Two others received minor injuries.									
Greater Phoenix Area, Maricopa County	16	1600-1800 MST			1	3	6	4	Thunderstorm, Wind, Flash Flooding, Funnel Cloud
A violent thunderstorm produced winds to 64 MPH at Sky Harbor International Airport. There was widespread wind damage to roofs of houses, apartments and businesses. Power lines, signs and trees were knocked down. The hardest hit was an area of two square miles south and west of the airport where a dozen apartments were severely damaged as well as a number of houses, hundreds of trees blown over and power lines knocked down. One to two inches of rain fell over much of the metropolitan area and caused flash flooding of streets and roads, with some localized flooding of houses and businesses. A woman was electrocuted in her apartment when she touched a lamp while standing on a water soaked carpet. Around 1710MST a funnel cloud was sighted over the western portion of Mesa. New record amounts of rain were set for Phoenix for 5, 10 and 15 minutes with .90 inch, 1.14 inches and 1.17 inches respectively.									
Phoenix, Maricopa County	16	1730MST	0.3	30	0	0	5	0	Tornado (F1)
During the violent thunderstorm, a small tornado moved from south to north about one-half mile west of the western edge of Sky Harbor International Airport. It stopped a moving car, exploding the windows and knocked down about a dozen power line poles, one of which severely damaged several parked cars.									
Greater Phoenix Area, Maricopa County	31	1800-1900 MST			0	0	4	0	Thunderstorm, Wind
A thunderstorm moved across the area from south-east to northwest with winds gusting to 81 MPH at Williams Air Force Base and 41 MPH at Sky Harbor International Airport. Visibility was reduced to near zero in blowing dust. Only minor damage was reported.									
<b>3 ARKANSAS</b>									
Faulkner County	01	1345CST			0	0	4	-	Wind
A heavy thunderstorm produced high winds in Conway. A large section of roof on a building was peeled off, causing water damage to contents. Falling trees and limbs caused power outages in the city.									
Pike County	01	1500CST			0	0	3	-	Lightning
Lightning struck an old church building at Roseboro. The church was not in use, but it was considered a local historical landmark.									
White County	02	1735CST			0	0	3	-	Lightning
Lightning struck a Searcy residence causing extensive damage to the attic and roof from the ensuing fire.									
Cleburne County	05	1430CST			0	0	3	-	Wind
Thunderstorm winds knocked down some trees and damaged one mobile home in Heber Springs.									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1983

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					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	

**— ARKANSAS**

White County	05	about 1500CST			0	0	3	-		Wind	
Winds from a thunderstorm damaged a mobile home and a construction project at a church in Romance.											
Pulaski County	06	1330 - 1400CST			0	0	3	-		Wind	
Strong gusts from a thunderstorm knocked down power lines, trees, and tree limbs in parts of Little Rock.											
Howard County	06	1425CST			0	0	3	-		Wind	
Strong winds from a thunderstorm knocked down a large oak tree in Nashville. The tree fell across four automobiles.											
Franklin County	06	1430CST			0	0	3	?		Wind	
Thunderstorm winds damaged some of the vineyards around Altus. Some roof and tree damage was reported, also.											
Crittenden County	06	about 1430CST			0	0	4	-		Winds	
A strong thunderstorm produced damaging wind gusts in West Memphis. Utility poles, trees, power lines, and tree limbs were knocked down by the strong winds.											
Sharp County	06	about 1600CST			0	0	2	-		Wind	
Strong winds from thunderstorms knocked down trees in many parts of Hardy.											
Monroe County	06	1625CST			0	0	3	-		Wind	
Thunderstorm winds knocked down trees and caused minor road damage around Brinkley.											
Crittenden County	06	1730CST			0	0	3	-		Wind	
Thunderstorm gusts knocked down trees and produced minor roof and sign damages in Marion.											
Sebastian County	06	about 2030CST			0	0	3	-		Wind	
Winds from a thunderstorm knocked down a tree onto a Fort Smith home. There was substantial damage to the roof.											
Arkansas County	08	1330CST			0	0	3	-		Wind	
Winds from a thunderstorm damaged four farm sheds and one home near Stuttgart.											
Poinsett County	09	1620CST			0	1	-	-		Lightning	
A woman was hospitalized after lightning struck close to her while she was outdoors during a thunderstorm. She was taken for observation just to ensure that no injury occurred to her or the child she was carrying.											
Poinsett County	09	1630CST			0	0	4	-		Hail	
A brief hail storm damaged 312 square feet of roofing on a Harrisburg school.											
Yell County	09	1830CST			0	0	4	-		Wind	
High winds from a thunderstorm knocked down trees and caused minor damages to homes near Havana. Some roof damage was reported to poultry houses in Belleville and Ranger.											
White County	23	1400CST			0	0	4	-		Severe thunderstorm	
Strong thunderstorm winds blew down signs, trees, power lines, and some barns from Plainview to Providence. Lightning started a barn fire, a grass fire, and set two trailer homes on fire between those two cities. The home was completely destroyed. Rainfall in the area ranged between 1.7 and 2.7 inches.											
Lake Norfork	24	1615CST			0	0	3	-		Wind/Hail	
A strong thunderstorm moved over the lake, producing high winds and large waves. One dock was cut loose from its moorings and moved 2000 feet into a nearby cove. Trees and tents at two camp grounds were knocked down. A pontoon boat capsized. Quarter-size hail was also reported.											
Miller and Howard Counties	24	1715CST			0	0	-	?		Hail	
Hail as large as golfballs was reported in Nashville and eight miles east of Texarkana.											
Howard County	24	1720CST			0	0	-	?		Wind	
Wind damage to timber was reported around Mineral Springs.											
Cleburne County	25	1330CST			0	0	5	-		Lightning	
A rural residence near Tumbling Shoals was completely burnt by fire that started from a lightning strike.											

**— ARKANSAS**

Faulkner County	25	1330CST			0	2	4	-		Wind	
A strong thunderstorm moved through the northern part of the City of Conway. Two persons were injured inside a department store from a broken plate-glass window. A gasoline station and a restaurant were unroofed. A boat was blown against the bathroom wall at a truck stop. One utility pole was snapped by the wind.											
Hot Spring County	25	1503CST			0	0	3	-		Lightning/Wind	
Lightning caused a 1-hour blackout in Malvern by striking a substation breaker. A restaurant had minor roof damage, and a car in its parking lot had a broken windshield from strong winds.											
Garland County	25	1530CST			0	0	3	-		Wind	
Strong thunderstorm winds blew down trees and power lines, also causing some roof damage to a home in Royal.											
Pope County	25	1555CST			0	0	3	-		Lightning	
Lightning started a grass fire and caused power outages in Russellville.											
Washington County	28	1530 - 1630CST			0	0	4	-		Severe thunderstorm	
A strong thunderstorm moved through Tontitown and Springdale causing flash flooding, wind, and lightning damage. Lightning struck a water main in Tontitown, opening a two-foot gap. Lightning started a fire at a motorcycle dealership in Springdale. Wind blew down trees and power lines. Several areas of Springdale reported street flooding in the residential sections.											
Benton County	28	1630CST			0	0	3	-		Lightning	
Lightning caused power outages in Bentonville and Gravette. Damages were minor at several transformer fuses.											
Independence County	28	1643CST			0	0	4	-		Lightning	
Lightning struck an apartment building near Pfeiffer. One of the four apartments was destroyed by fire.											
Franklin County	29	1405CST			0	0	3	-		Wind	
A pickup truck was blown off Interstate 40 at the 39-mile marker, near Ozark, by a thunderstorm gust.											
Ashley County	29	1420CST			0	0	?	-		Lightning	
Lightning knocked off the air the Sheriff's radio communications in Hamburg.											
Garland County	29	1430CST			0	0	3	-		Wind	
Thunderstorm gusts damaged farm buildings, power lines, and a pickup truck on a farm just outside of Hot Springs along Highway 227.											
Hot Spring County	29	1430CST			0	0	3	-		Wind	
A welding shop was damaged by strong winds from a thunderstorm 3 miles northeast of Oak Grove. Some trees were knocked down and a barn was blown 75 feet from its location.											
Yell County	29	1430CST			0	2	3	-		Severe thunderstorm	
A strong thunderstorm produced strong winds that knocked down a tree onto an apartment building in Dardanelle. It also produced localized street flooding. Two men were injured by lightning as they went outside to close their vehicle windows.											
Pope County	29	1500CST			0	0	3	-		Wind	
Strong downdrafts from a thunderstorm snapped trees and power poles in Russellville. There was also some power line damage and minor damage to roofing shingles.											
Ouachita County	29	1556CST			0	0	4	-		Lightning	
Lightning started a fire at four oil storage tanks in Stephens. The 500 gallon capacity tanks were completely destroyed.											
Columbia County	29	1600CST			0	0	4	-		Wind	
A strong thunderstorm moved through Columbia County causing widespread outages of power and telephone service. The Sheriff's office in Magnolia was without telephone or radio service for one hour, approximately.											
Ouachita County	29	about 1600CST			0	0	4	-		Lightning	
Lightning started a house fire which destroyed two bedrooms. The house was located by "Poverty Point" of White Oak Lake near Chidester.											

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					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	

## — ARKANSAS

Union County	29 about 1830CST	0	0	3	-	Wind
A thunderstorm produced wind gusts that blew down a concession stand at a high school in Norphlet.						
Independence County	31 0305CST	0	0	4	-	Lightning
Lightning started a fire at a Swains Chapel residence. The home's garage was destroyed.						
Yell County	31 0430CST	0	0	3	-	Lightning
Lightning struck a barn in the Dardanelle area. The barn was completely consumed by the fire that ensued.						
Faulkner County	31 0530CST	0	0	2	-	Lightning
Lightning struck a Conway residence causing only minor structural damage.						
Pulaski County	31 0600CST	0	0	4	-	Lightning
Lightning started a house fire in Little Rock. The fire damaged the attic.						
All of Arkansas	Summer of 1983 JUN - AUG	13	0	-	8	Heat Wave/Drought
A combined period of dryness, beginning in June, and excessive heat, beginning in July, occurred over the state and lasted through most of August. Precipitation was confined to afternoon thundershowers that were isolated to widely scattered. One exception to the dry regime happened over southwest Arkansas, early in July, when flash flooding occurred. The northeast corner of the State was the driest section, while reaching temperatures of 100 degrees or higher, sooner than other parts. One hundred degree temperatures spread southward and westward from the northeast corner of Arkansas. The heat contributed to 13 fatalities statewide, according to the Arkansas Health Department. The number of deaths, by county, were: Pulaski 2; Sebastian 2; Saint Francis 2; and one in each of the following: Jackson, Miller, Saline, Garland, Greene, Baxter, and Woodruff. Crop damage was estimated in the neighborhood of 225 million dollars from the drought, according to the Arkansas Farm Bureau. Thirty-eight of the 75 counties in Arkansas reported crop yield reductions ranging between 50 and 80 percent.						

## 4 CALIFORNIA, Northern

Kern County Tehachapi Mountains	16 1600-2000PST	-	-	0	0	4	4	Heavy Rain
More than 1.5" of rain fell in an hour. Cameron Creek flooded, washing out portions of Highway 58 and restricting traffic.								
Kern County Tehachapi Mountains	17 1600-2100PST	-	-	0	0	4	4	Heavy Rain
The Tehachapi Mountains experienced heavy rain, with almost an inch falling in a 1-hour period at some locations. Cache Creek flooded portions of California City, with water at window height of cars. Some houses flooded.								
Del Norte, Humboldt, Mendocino Counties	29 0700-30 2200PST	-	-	0	7	5	5	Early Rain
There were unseasonably heavy rains of over 3" in 2 days. Summer bridges washed out which caused landslides and made back roads impassable. An auto accident injured six people. One person was injured by rocks while fleeing a rockslide. At Camp Mendocino 330 children were evacuated by emergency vehicles.								

## 4 CALIFORNIA, Southern

Landers in San Bernardino County	01 1050PST	?	?	0	?	?	0	Tornado (F0)
A tornado moving south, then turning west, damaged two cabins, a house, a pick-up truck and a motor home before dissipating. At least three (3) people reported seeing the tornado. One man suffered a cut forehead as the tornado ripped the roof off his home.								
Morongo Valley in San Bernardino County	16 0900PST	0	0	?	?	0	0	Heavy Thunderstorm
Widespread flash flooding occurred after three hours of rain in the morning hours in this desert community. Two motorists were trapped in their cars by window-high water, but were not injured. Several homes were damaged by flood waters.								

## — CALIFORNIA, Southern

San Bernardino in San Bernardino County	17	3	?	?	0	0	0	Heavy Thunderstorm
Heavy rain caused several roofs to collapse and several intersections and homes were flooded. Parts of Interstate 10 were closed due to flooding and thousands of motorists were stranded. Two San Bernardino County women were killed when their car was swept away in swift overflowing waters from a flood control channel. Another woman was drowned when her car was swept away and overturned by flood waters.								
Ridgecrest in Kern County	17	2	?	?	0	0	0	Heavy Thunderstorm
A woman was killed when she attempted to drive through flood waters running across a normally dry gully 15 miles west of Ridgecrest in the Mojave Desert. Another woman died in weather related traffic accident.								

## 5 COLORADO

Northeast Plains, Eastern Foothills	1 1530-1630MST	0	0	3	0	0	0	Heavy Rain
Heavy rain drenched several areas, mostly in the eastern foothills. Near Salida, a bridge was made impassable when adjacent embankments were washed away. Notable rainfall amounts included half an inch in five minutes at Dumont in Clear Creek County, and 1.05 inches in 15 minutes in Boulder County between the city of Boulder and Nederland.								
Front Range	4 1400-2000MST	0	0	0	4	0	0	Heavy rain, hail
Severe thunderstorms hit many areas of the Front Range, bringing heavy rain and hail. 2 1/2 inches of rain fell in just 25 minutes at the east end of the Eisenhower tunnel in Clear Creek County. From 1554 to 1600, hail up to one inch in diameter fell in Aurora, and heavy rain caused minor street flooding. 2.12 inches of rain fell in 2 1/2 hours 9 miles east of Fort Collins, along with 3/4 inch hail at 1840. Crop damage occurred in that area, and also near the northern Weld County town of Carr.								
Eastern Foothills	5 1400-1700MST	0	0	5	?	0	0	Heavy rain, hail
Very heavy thunderstorms hit Douglas County, the southern Denver metro area, and other spots in or near the eastern foothills. 2.89 inches of rain deluged southeast Denver in just 38 minutes ending at 1643, causing widespread street flooding; two feet of water covered a section of Interstate 25. Hail up to golfball size accompanied the storm in Littleton and Englewood, along with 60 mph winds. In Elbert County, a midafternoon storm also produced up to golfball size hail in Elizabeth, along with 1.67 inches of rain in an hour. Lightning set fire to a barn and destroyed several power poles in the county. Farther south, 1 1/2 inches of rain drenched Salida in 40 minutes; a few buildings in nearby Buena Vista were flooded. 1 1/2 inches of rain also fell in Woodland Park, west of Colorado Springs, and a section of road on Pikes Peak was washed out. To the north, 1.42 inches of rain fell in 30 minutes near Gill, in central Weld County. SEVERE WEATHER REPORTED ON AUGUST 5... (MST) 1430-1448 1 inch to golfball size hail in Elizabeth (W. Elbert Cy.) 1553 3/4 inch hail in Englewood (W. Arapahoe Cy.) 1610 up to golfball size hail in Littleton (W. Arapahoe Cy.) 1619 60 mph wind gust in Littleton (W. Arapahoe Cy.)								
Boulder Cy.	5 evening	0	1	0	0	0	0	Lightning
A man was struck by lightning in Allenspark and knocked unconscious, but sustained only minor injuries.								
Lincoln Cy.	6 1350MST	0	0	0	0	0	0	Hail, heavy rain
3/4 inch hail fell at Limon; 1.5 inches of rain drenched the area in two hours.								
Montrose, Dolores Cys.	8 1630-1730MST	0	0	5	4	0	0	Severe tsmts.
A severe thunderstorm west of Montrose produced golfball size hail and wind gusts up to 71 mph. The storm hit the Montrose airport, blowing hangars apart and damaging five planes. Power lines in the area were downed, and fences, trailers, and farm buildings were damaged. Barley crops near Montrose were hit hard, and crop damage also occurred near Dove Creek in Dolores County.								
Weld Cy.	12 1515-1526MST	0.2	17	0	0	0	0	Tornado (F1)
0.2 17 0 0 0 0 Tornado (F1) 0.2 17 0 0 0 0 Tornado (F1)								
Spotters sighted three separate tornadoes five miles east of Prospect Valley. The funnels were all small, about 50 feet in diameter, and moved toward the north. FFP of each (1,0,1).								
Boulder Cy.	13 1345MST	0	0	0	0	0	0	Hail
3/4 inch hail fell 7 miles northeast of Boulder; heavy rain caused some street flooding.								

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1983

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					KILLED	INJURED	PROPERTY	CROPS	

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## COLORADO

North Denver metro area	13	1439-1530MST							0 0 0 0 Heavy rain Thunderstorms dumped torrential rain in Northglenn, Thornton, and Broomfield. One spot in Northglenn was drenched with 1.72 inches in 30 minutes, with many reports of only slightly less intense rainfall in the area. Street flooding was widespread. At 1443, an unconfirmed report of a 97 mph wind gust was received from Northglenn.
Front Range	14	1600-1900MST							0 0 4 3 Heavy rain Heavy rain hit many spots, mainly west of Denver. 1.79 inches of rain fell in 35 minutes at Empire in Clear Creek County ending at 1652; mudslides closed two lanes on Interstate 70 and damaged US 40. 2.10 inches drenched Golden in an hour, with similar amounts in Boulder and Lakewood. Over 10 thousand dollars worth of plants were washed away at a nursery in Lakewood. Farther north in Larimer County, marble size hail damaged corn near Wellington.
Weld County	17	1445- 1450MST	0.3 20	20	0	0	0	0	Tornado (F1) Tornado (F1)  Two small tornadoes were sighted 7 miles southeast of Carr. FPP of each (1,0,1).
Weld County	17	1513MST			0	0	3	0	Hail Hail the size and shape of hen eggs was reported in Carr from the same thunderstorm that produced the tornadoes. The roofs of a nearby house and barn were badly damaged.
Statewide	17	evening			0	0	4	0	Thunderstorms Scattered thunderstorms hit spots in many parts of the state. Lightning in Fort Morgan caused minor damage to homes, and a few power outages. The Larimer county town of Berthoud was drenched by almost an inch of rain in ten minutes. The northern suburbs of Denver were hit again; .83 inch of rain fell in 15 minutes at Thornton. On the west slope, heavy thunderstorms inflicted minor property damage in Glenwood Springs. Shortly before 9PM MST, a thunderstorm in Craig caused high winds that toppled a tree onto a parked car, and produced heavy rain.
Front Range	18	1500-1745MST			0	0	3	0	Severe tsms. Severe thunderstorms once again hit the Front Range with large hail and strong winds. Damage was minor, and all caused by wind. Patio roofs and sheds were damaged near Watkins in Arapahoe County. In Larimer county, docks and boats were torn loose from their moorings at Carter Lake by high winds. SEVERE WEATHER REPORTED ON AUGUST 18...TIMES MST
1545-1600									One inch to hen egg size hail at Broomfield (W. Boulder Cy.)
1612									Wind gust to 67 mph at Carter Lake (SE Larimer Cy.)
1657-1708									Wind gust to 60 mph 2 miles SW of Fort Collins (E. Larimer Cy.)
1730									Golfball size hail at Northglenn (W. Adams Cy.)
1745									Wind gust to 60 mph at Pierce (NW Weld Cy.)
2000									Wind gust to 65 mph at Buckhorn Mountain (Cntrl. Larimer Cy.)
Western Colorado	18	aftn. eve.			0	0	0	0	Heavy rain Heavy thunderstorms hit Colorado National Monument in Mesa County, and Cortez in Montezuma County. At the monument, about an inch of rain fell in 30 minutes, with marble size hail. A spot near Cortez received 1 1/2 inches in half an hour.
Eastern Foothills	19	1700-2000MST			0	0	0	0	Heavy rain Heavy rain again hit several spots along the eastern foothills. The Denver suburbs of Broomfield, Arvada, and Thornton all measured 1.5 to 1.8 inches of moisture from thunderstorms. 2.25 inches fell in 1 3/4 hours in the Colorado Springs suburb of Broadmoor, causing local flooding. In Weld County, .89 inch fell in 30 minutes at Keenesburg.
Jefferson Cy.	22	1425MST			0	0	0	0	Hail 3/4 inch hail fell at Kittredge, along with .60 inch of rain in 25 minutes.
Larimer Cy.	26	1630-1730MST			0	0	0	0	Heavy rain Two storms five miles north of Fort Collins produced two inches of rain. In the city, about 3/4 inch fell in just 15 minutes.

## 6 CONNECTICUT

Chester	01	Late Afternoon	0.2 20	0	0	0	0	0	Tornado (F0)  A small tornado touched down and the tops of trees were twisted and broken off in a straight narrow line of tree damage between Straits Road and Route 9-A. No damage to structures resulted.
Torrington Area	01	Late Afternoon			0	0	?	0	Lightning, Heavy Rain, Local Street Flooding  Thirteen thousand electric customers lost power as severe thunderstorms moved through the area with numerous lightning strikes and heavy local flooding. Over 3 inches of rain fell in two hours in Winsted.

## CONNECTICUT

Northwest, Central, Northeast Portions	04	0730-0900EST							0 0 ? 0 Lightning, Gusty Winds, Heavy Rain  A morning thunderstorm knocked out power to several thousand customers and lightning started house fires in Stafford Springs and Manchester resulting in damage.
New Haven Area	06	1600-1700EST			0	0	?	0	Lightning, Heavy Rain  A severe thunderstorm moved southeastward across the area causing downpours of rain and lightning bolts which struck a number of buildings damaging the steeple of a North Branford church. Power was knocked out in the area.
Southwest, Central Portion	28	1400-1500EST			0	0	5	0	Lightning, Thunderstorm Winds and Hail  A severe thunderstorm moved through the area at mid-afternoon with damage from lightning and gusty winds knocking out electric power to up to 19,000 customers. Communities most directly hit were: Cheshire, Southington, Meriden, and Oxford. Only straight line wind damage was confirmed by NWS investigation. Heaviest damage was concentrated in an area 3 miles long by 1 1/2 miles wide along Route 66 in Southington where some large trees and many branches were blown down. Hail up to 1 inch in diameter reportedly fell in Cheshire denting automobiles and breaking some windows. A bolt of lightning started a fire which destroyed a vacant house in the town of Oxford. A light plane crashed upon landing in Danbury during the storm with five people slightly injured. Electric power was not restored for up to 20 hours in hardest hit areas.
Cheshire, Wolcott Area	28	1400EST			0	0	4	?	Hail Hailstones the size of golf balls and up to 1 1/2 inches in diameter hit the northern section of Cheshire damaging crops, smashing windows on cars and buildings. Farmers reported extensive damage to crops with 50% of apple and peach crops reported. The last time a hailstorm of this severity occurred in this area was in 1962 and in 1958. In Wolcott hail reached a depth of up to two inches with some roads impassable for a short time. All of the hail fell as part of severe thunderstorm activity.

## 7 DELAWARE

Statewide	11	1800-2000EST							0 0 4 4 Wind, Hail  Low pressure center moved from the Great Lakes region into New England, setting off severe thunderstorm activity. Downed trees were widespread over the state with the hardest hit areas in Kent and Sussex Counties. A trailer park near Felton, Kent County, was disrupted with one mobile home overturned and at least two others moved off their foundations. Wind was accompanied by golfball-sized hail that ruined local gardens and crops.
Northern	22	2000-2100EST			0	0	4	0	Wind, Lightning  Strong thunderstorm winds and lightning caused at least two major power outages as gusts measured in excess of 45 mph. A barn near the town of Wyoming, Kent County, was destroyed by a lightning-caused fire at about 8:30PM.

## 8 FLORIDA

6N Crestview, Okaloosa County	01	1815EST	-	-	2	0	1	0	Lightning  A mother and her son were killed by lightning while apparently trying to evacuate their home during a severe electrical storm at Campton.
8S Pensacola, Escambia County	02	1200EST	-	-	0	2	0	0	Lightning  Two people walking along the beach at Fort Pickens State Park were struck by lightning. Their injuries were minor.
Panama City, Bay County	03	1700EST	.3	40	0	0	4	0	Tornado(F1)  A tornado ripped off part of a roof, tore down an aluminum awning, and damaged a trailer at a camper sales office. The tornado dissipated before causing any more damage.
El Jobean, Charlotte County	03	1915EST	-	-	0	0	5	0	Lightning  Lightning started a house fire in a residential subdivision. The occupants tried to put out the fire with a garden hose but flames spread quickly and destroyed the dwelling.
12SW Miami, Dade County	05	0855EST	.2	40	0	0	2	-	Tornado(F0)  A tornado touched down briefly at a plant nursery in southwest Dade County. Damage was minor.

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AUGUST 1983

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— FLORIDA										
1W Key West, Monroe County	06	2342EST	.4	30	0	0	0	0	0	Waterspout A waterspout was observed for five minutes over the ocean west of Key West.
Cape Canaveral, Brevard County	07	1400EST	.2	30	0	0	0	0	0	Tornado(F0) A small tornado touched down briefly northwest of the Vehicle Assembly Building at the Kennedy Space Center. It dissipated before striking any structures.
Fort McCoy, Marion County	08	0100EST	-	-	0	0	3	-	-	Lightning Lightning started a fire that destroyed a community center building.
St. Augustine, St. Johns County	08	1500EST	-	-	0	0	6	0	-	Thunderstorm Winds Strong wind gusts spawned by heavy thunderstorms struck the St. Augustine Airport demolishing two light planes and heavily damaging one other.
West Palm Beach, Palm Beach County	08	1515EST	1	100	0	0	3	-	-	Tornado(F0) A small tornado moved southwest to northeast over a mostly rural area damaging trees, awnings, and outbuildings. The path ended on the southeast end of a mobile home park.
West Palm Beach, Palm Beach County	08	1530EST	.3	70	0	2	6	-	-	Tornado(F2) Another tornado moved southwest to northeast over two mobile home parks uprooting trees, destroying three mobile homes, leaving one standing between two others, and substantially damaging two other mobile homes. The tornado lifted northeast of the second park.
Offshore Franklin County	09	1400EST	-	-	1	0	0	0	0	Lightning A fisherman was killed when struck by lightning aboard a boat in St. Vincent Sound offshore of Franklin County.
Beverly Beach, Flagler County	12	1330EST	.5	40	0	0	5	-	-	Tornado(F1) A tornado struck a mobile home park destroying two homes and scattering wreckage about 600 feet away. Four other homes were damaged, as were carports, awnings, and a nearby billboard.
Ocala, Marion County	13	1400EST	-	-	0	2	4	-	-	Lightning Lightning injured two electricians working on a power panel. The ensuing fire at the plant caused heavy damage.
Hollywood, Broward County	14	1445EST	-	-	1	0	0	0	0	Lightning Lightning struck one side of a tree, exited on the other side and killed a man who had taken shelter from a thunderstorm.
Escambia County	22	1020EST	-	-	0	0	4	-	-	Thunderstorm Winds Strong thunderstorm winds gusting to 63 mph blew in store-front windows, knocked down power lines, and toppled a tree onto a house in Pensacola. In Milano north of Pensacola, lightning started a house fire that destroyed the dwelling.
Dade, Broward, and Monroe Counties	28	1400EST	-	-	0	0	5	-	-	Thunderstorm Winds and Hail Wind gusts to 65 mph and hail from pea to golf ball size was reported as heavy thunderstorms moved through South Florida. Several trees were uprooted, and up to 5000 homes were without power. Portions of the Florida Keys were also left without power.
3N Unatilla, Lake County	28	2200EST	-	-	1	0	3	-	-	Thunderstorm Winds An area of strong thunderstorms moved through spawning high winds. The winds fell a tall pine tree which crashed into the roof of a home. A youngster asleep in the bedroom was killed by debris jarred loose from the tree striking the house.
Destin, Okaloosa County	29	1200EST	-	-	0	0	3	-	-	Thunderstorm Winds Thunderstorm winds clocked to 75 mph by the Destin Coast Guard station downed trees and power lines and wrecked several boats. Heavy rains also caused minor flooding.
Duval and Clay Counties	29	1600EST	-	-	0	0	3	-	-	Thunderstorm Winds and Hail Heavy rains, strong wind gusts and hail were reported in parts of south Duval and Clay counties. The Naval Air Station south of Jacksonville reported wind gusts to 58 mph and small hail. Other reports of small hail came from Orange Park in Clay County.
11N Milton, Santa Rosa County	29	1830EST	-	-	1	0	0	0	0	Lightning Lightning killed a man working under a tractor.

— FLORIDA										
LaBelle, Hendry County	30	1500EST	-	-	0	0	3	-	-	Thunderstorm Winds Thunderstorm winds damaged the bleachers and pressbox at the LaBelle High School stadium. No other damage was reported nearby.
Volusia and Lake Counties	30	1700EST	-	-	0	0	3	-	-	Thunderstorm Winds Strong thunderstorm winds uprooted trees, downed signs and power lines in Lake and southwest Volusia Counties.
Trenton, Gilchrist County	30	1700EST	-	-	0	0	2	-	-	Thunderstorm Winds A thunderstorm spawned winds which uprooted trees, felled power lines and caused minor roof damage.
5N Lakeland, Polk County	30	1730EST	-	-	0	0	4	-	-	Thunderstorm Winds Thunderstorm winds overturned two trailers at a campground, overturned a dumpster and damaged several signs.
Jacksonville, Duval County	31	2200EST	-	-	0	0	2	-	-	Thunderstorm Winds Strong thunderstorm winds caused widespread but minor damage mostly to trees and power lines.
9 GEORGIA										
Gwinnett County	1	1410EST	-	-	0	0	0	0	0	Funnel Cloud Many people reported sighting a funnel cloud in the eastern part of the county.
Harris County	4	1405EST	-	-	0	0	0	0	0	Funnel Cloud A police officer sighted a funnel cloud over I-185 near the Muscogee County-Harris County boundary.
Rockdale County	4	1940EST	-	-	0	0	3	0	0	Wind Thunderstorm winds downed a few trees and power lines.
Fulton County	6	1540EST	-	-	0	0	0	0	0	Wind Thunderstorm winds gusted to 50 knots at the Fulton County Airport.
Clayton County	6	1625EST	-	-	0	0	1	2	0	Wind Thunderstorm winds downed an acre of corn and at least one tree in the southern part of the county.
Richmond County	6	2015-2100EST	-	-	0	0	0	0	0	Flash Flood Thunderstorms dumped heavy rain in Augusta. Street flooding was widespread; street closings included the intersection of Boy Scout Road and Ingleside Drive.
DeKalb County	7	1920EST	-	-	0	0	2	0	0	Wind Thunderstorm winds downed a few trees near Tucker.
Bibb County	12	1400EST	-	-	0	0	4	0	0	Wind Thunderstorm winds downed several trees in northwest Macon. One large pine tree fell on a house causing considerable roof damage.
Glynn County	12	Late Afternoon	-	-	1	2	0	0	0	Lightning An 8-year-old boy was killed and his 4-year-old sister was critically injured when they were struck by lightning as they played on the beach at Jekyll Island. Another person suffered minor injuries.
Walker County	23	Afternoon	-	-	0	0	5	0	0	Wind Thunderstorm winds ripped the roof off the band room and gymnasium at Rossville High School. Eight cars were damaged at the school. Many trees were uprooted in Rossville; the falling trees caused some damage to homes and power lines.
Jackson County	23	1745EST	-	-	0	0	3	0	0	Wind Thunderstorm winds downed several trees in the northern part of the county. The porch of a farmhouse was damaged.

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<b>— GEORGIA —</b>											
Richmond County	24	1500-1520EST			0	0	3	0	0	0	Wind
											Thunderstorm winds downed power lines and caused tree damage in Augusta.
Rabun County	24	1500-1600EST			0	0	2	0	0	0	Wind
											Thunderstorm winds downed several trees.
Habersham County	24	1600EST	1.0	100	0	0	4	0	0	0	Tornado (F1)
											A tornado touched down in southeast Clarksville, destroying 2 metal storage sheds and damaging 2 others, downing several trees, and wrecking 10 booths at the Chattahoochee Mountain Fair. A car was lifted by the tornado and dropped on top of some roadside mail boxes.
DeKalb County	24	1900EST			0	0	3	0	0	0	Wind
											Thunderstorm winds downed 4 large trees in the southwest part of the county. Some roof damage was reported in Decatur.
Clarke County	28	1400EST			0	0	5	0	0	0	Lightning
											Lightning struck a house in Athens, causing a fire that destroyed the building.
Ware County	28	1438EST			0	0	4	0	0	0	Lightning
											Lightning struck a television set in a home, causing a fire that heavily damaged the house.
Colquitt County	28	1715EST			0	0	5	0	0	0	Wind, Lightning
											Thunderstorm winds downed several trees in Moultrie; several mobile homes were damaged by the gusty winds and falling trees. Numerous lightning strikes caused several fires in homes and also disrupted electrical power service to about 2,000 customers.
Peach County	28	1825EST			0	0	4	0	0	0	Wind
											Thunderstorm winds lifted up the porch roof on an apartment house in Fort Valley and folded it back over the building. Several power lines were downed causing brief power outages.
<b>10 IDAHO</b>											
Burley, Delco, Oakley, Cassia County	8	Evening			0	0	5	0	0	0	Thunderstorms, Wind
											Strong winds reaching 60 to 70 mph uprooted many trees and broke off some telephone poles. A cow barn was severely damaged as the roof peeled off like a banana peel. Roofing from the 112 x 200 ft. barn flew as far as 300 ft.
Dworshak Reservoir, Clearwater County	10	1800-1830 PST			0	1	7	0	0	0	Thunderstorms, Wind
											An estimated 100 million ft. of timber was blown down by very strong winds associated with a cluster of thunderstorms. Several boats and trailers were demolished under falling trees. A camper suffered a bruised and badly scraped arm when he was grazed by a falling branch.
20 miles southeast of Pocatello, Power County	18	1230-1236MST			0	0	0	0	0	0	Tornado (F1)
											A skinny little rope-like tornado touched down on some farm land. It was on the ground for about six minutes; no damage was reported.
Albion, Cassia County	20	1730 - 1830MST			0	0	5	0	0	0	Flash Flooding
											A cloudburst over the higher terrain near Albion, Cassia County, sent water, mud and rocks into town. Most businesses and many homes, especially those in the south part of town, suffered some water damage. Several cases of road damage was reported and one bridge was partially out.
Twin Falls, Bonneville Bingham - Jefferson County	22	1500-1700MST			0	0	0	0	0	6	Thunderstorms, Hail
											Severe thunderstorms with hail did extensive damage to grain and corn crops.
<b>— IDAHO —</b>											
Aberdeen, Bingham County	23	afternoon			0	2	0	0	0	0	Lightning
											Two men were struck by lightning while working and suffered burns on their feet.
Jerome, Lincoln, Minidoka, Twin Falls counties	23				0	0	0	6	0	0	Thunderstorms, Hail
											Hail stones up to one inch in diameter did an estimated \$3 million worth of damage to crops.
<b>11 ILLINOIS</b>											
Northern Third	03	1700-2030CST			0	0	4	0	0	0	Wind
											Scattered thunderstorms with high winds moved across portions of the north during the afternoon and evening. The wind damage, mainly to trees, power lines, and out buildings was rather localized. At 1710 the southern portion of Warren County received high winds which blew down power lines and tore a roof off a building. Several mobile homes were picked-up and damaged in Carroll County. Power failures were common, especially in LaSalle County.
Southern Sections	05	1500-1845CST			0	0	4	0	0	0	Wind
											Thunderstorms with high winds moved across portions of the southern part of the state causing tree damage and power failures. In Breese and in Carlyle, Clinton County, power failures and wind gusting to 60 knots were reported at 1550.
Northern Portions	10	1700-1900CST			0	0	4	0	0	0	Wind, Flooding
											During the afternoon thunderstorms developed over the northeast section of the state. Winds as high as 70 knots up-rooted trees, damaged homes, and caused power failures. At 1745 a 50-foot wide funnel cloud was sighted near Route 14 and Bunker Hill Road in McHenry County. One inch of rain fell in McHenry, McHenry County, during a half hour period ending at 1800 causing flooding of lowlying areas. Very powerful winds, (microbursts) caused considerable damage to 2 local areas in McHenry County. The first microburst started near Route 120 (2.5 miles west of McHenry) and extended southeast to Draper and Ridge Road. A roof of a shed was blown off, trees were uprooted, and a corn crop was flattened. The second microburst began 2 miles south of McHenry near Route 31 and extended southeast for 2.5 miles. One commercial building and a barn lost their roofs. The barn also lost part of its walls. Numerous trees were broken off and areas of corn crops were flattened. The strength of these the microbursts were between F0 and F1. Many trees were up-rooted and damaged several homes in Dixon, Lee County. Power lines were also blown down.
Mt. Prospect, Cook County	10	1830CST			1	6	0	0	0	0	Lightning
											A child was struck and killed by lightning in a playground and 6 others were injured.
Southwest Section	22	1400-1700CST			0	0	3	0	0	0	Wind
											Scattered thunderstorms with high winds moved across portions of the southwest causing minor wind damage to trees and power lines. A 52 knot wind gust was reported in Forsterburg, Madison County, at 1542. At 1655 a 52 knot wind occurred in Nashville, Washington County.
Entire State	26-27	1530-0130CST			0	0	4	0	0	0	Wind
											As thunderstorms with strong winds moved from the southern sections to the northern portions of the state, trees, power lines, and out-buildings were damaged. At 1505 the wind damaged trees and caused a power failure in Newton, Jasper County. As the storms moved north, wind gusts to 53 knots were recorded at Princeton, Bureau County, at 0025 on the 27th. A 52 knot wind was recorded at Mendota LaSalle County, at 0030. Winds as high as 70 knots blew down several tents and trees in Pontiac, Logan County, at 0034. The town of Blackstone, Livingston County, received tree and minor out-building damage at 0115.
Central & East Sections	27	1700-2030CST			0	0	4	0	0	0	Wind, Hail
											Scattered thunderstorms with high winds and large hail moved across the central and east portions of the state during the late afternoon and evening causing minor wind damage. Champaign, Champaign County, recorded wind gusts of 52 knots at 1710. Hail as large as 0.75 of an inch fell in Canton, Fulton County, at 1737. Trees were blown down in Lewistown, also in Fulton County, at 1750. Heavy rain gave some areas more than 2 inches in a few hours.



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AUGUST 1983

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## 12 INDIANA

Loogootee, Martin County	27	1440EST				0	0	3	0	Thunderstorm Winds Wind gusts to 60 MPH uprooted trees and blew in store windows.
Western Vigo County	27	2347EST				0	0	2	2	Thunderstorm Winds Strong winds downed large tree limbs in the western part of the county. Some corn was flattened.
Quaker, Vermillion County	27	2400EST				0	0	0	0	Thunderstorm Winds Large limbs down near the town of Quaker blocking some roads.
Rockville, Parke County	28	0015EST				0	0	0	0	Thunderstorm Winds Trees uprooted north of Rockville.
Bellmore, Parke County	28	0020EST				0	0	3	0	Thunderstorm Winds Strong winds uprooted trees and downed power lines.
3N Clinton, Putnam County	28	0035EST				0	0	0	0	Thunderstorm Winds Strong thunderstorm winds downed large tree limbs.

## 13 IOWA

Jefferson County	03	1700 CST				0	0	4	0	Thunderstorm Strong winds in a thunderstorm knocked down part of a tree onto a motor vehicle parked in the front yard of a home in Libertyville.
Monroe County	03	2120 CST				0	0	3	3	Thunderstorm Winds in a brief thunderstorm uprooted trees and flattened corn southwest of Lovilia.
Union County	06	1200 CST				0	0	0	0	Funnel Cloud A funnel cloud was spotted about 2 miles west of Creston.
Des Moines County	18	1500-1800 CST				0	0	4	0	Thunderstorm High winds accompanied a summer thunderstorm that struck Burlington. Trees and power lines were downed, which caused an outage for 500 people, and windows were broken or blown out at downtown stores.
Osceola County	20	1700 CST				0	0	5	0	Thunderstorm Damage occurred in a thunderstorm near Allendorf. At one farmstead an old barn blew down, many trees were destroyed and the roof came off a corn crib. At a neighboring farm, trees were felled, the roof of a corn crib blew away and the barn door was torn off.
Iowa	21	1730-2200 CST				0	0	5	4	Thunderstorm and Hail A band of thunderstorms moved through Iowa from the Northwest to the Southwest Sunday evening and night. Large hail - up to golf ball size - was observed at Royal in Clay County and at Storm Lake in Buena Vista County. There were reports of funnel clouds observed by the public in Greene and Calhoun Counties but these were unconfirmed. Heavy rain and gusty winds also accompanied the storms. Winds estimated at 50 MPH downed small trees and tree limbs and power lines, notably in and around the City of Des Moines. Tree damage was also observed as far southeast as Mt. Pleasant in Henry County.
Polk County	24	0245-0345 CST				0	0	4	0	Lightning Two different buildings in Des Moines were damaged by lightning. On the Northeast side a communications tower was struck, causing problems for the Sheriff's Department for a time. Later, the elevator house was struck at a downtown building, causing equipment damage amounting to some \$20,000.
Winneshiek County	25	2300-2330 CST				0	0	5	0	Thunderstorm A line of thunderstorms moved into Winneshiek County late Sunday night, accompanied by strong winds and heavy rain. Near Cresco a mobile home was flattened. In Ossian trees and power lines were downed. A 25,000 bushel corn bin was blown off its cement foundation at the Ossian Agricultural Center and rolled against a tree.
Polk County	26	1700-1740 CST				0	0	5	0	Thunderstorm Strong winds knocked down trees onto vehicles, outbuildings and power lines in Southeastern Polk County. Avon Lake and Rising Sun were particularly hard hit, and damage occurred as well in Pleasant Hill and Runnells. More than 60 trees were felled in Rising Sun, one of which fell on a house. A garage collapsed in Pleasant Hill due to the force of the wind.
Warren County	26	1730-1800 CST				0	0	4	0	Thunderstorm Winds as strong as 60 MPH blew through Carlisle. At the gym in Carlisle, a brick wall bowed from the wind and had to be braced and eventually replaced. Sixty mile per hour winds were observed at Hartford as well by 1800.
Tama County	26	1745 CST				0	0	4	0	Thunderstorm Damage from the wind occurred at two farms 3 1/2 miles Northwest of Traer. At one farmstead a steel bin was knocked about, the roof of a shed torn off, six trees were uprooted, and fences torn down. At the other farm, a large tree fell onto the house, tearing down the porch, breaking windows and making a hole in the roof.

## IOWA

Polk County	26	2200 CST				0	0	4	0	Lightning Lightning struck a residence in Altoona, started a fire and caused about \$20,000 in damages.
O'Brien County	27	0110 CST				0	0	0	0	Thunderstorm and Hail Golf ball size hail and 50 MPH winds occurred near Gaza.
Clay County	29	2135-2200 CST				0	0	4	0	Thunderstorm Winds in excess of 70 MPH whipped through Spencer, downing trees and power lines and breaking windows. Some minor power outages ensued. One tree smashed a camping trailer as it fell.
Kossuth County	29	2200-2230 CST				0	0	3	0	Thunderstorm Winds up to 60 MPH occurred West of Algona.
Palo Alto County	29	2200-2230 CST				0	0	3	0	Thunderstorm Sixty-five mile per hour winds with heavy rain were reported.
Madison County	30	0530 CST				0	0	3	0	Lightning Lightning hit power lines and caused a temporary power outage in Winterset.

## 14 KANSAS

Sycamore, Montgomery County	01	1715CST				0	0	3	0	Wind Thunderstorm wind gusts damaged trees, roofs and a shed west of Sycamore.
Grenola, Elk County	06	1500CST				0	0	2	2	Wind, Hail Trees, roof tops and gardens were damaged by 3/4 inch hail and strong thunderstorm winds.
Sun City, Barber County	20	1900CST				0	0	2	2	Hail Ping pong ball size hail fell near Sun City. Only minor damage resulted.
McPherson County	20	1925CST				0	0	0	0	Funnels Two funnel clouds were sighted 9 miles east and 5 miles north of Little River.
Osborne, Mitchell and Jewell Counties	21	1930-2130CST				0	0	4	4	Hail A series of heavy thunderstorms moved from central Osborne County across northwest Mitchell County to central Jewell County. Golfball size hail fell at Osborne at 2100CST. Wind gusts 40 to 50 mph were common in the storms. Only minor damage to crops and trees was reported.
Shawnee, Jefferson and Leavenworth Counties	27	1330-1400CST				0	0	4	0	Wind A line of thunderstorms from Topeka to near Leavenworth produced frequent wind gusts of 40 to 60 mph. About 4 miles northeast of McLouth winds estimated near 100 mph overturned and demolished a mobile home and blew down 2 utility poles.
Topeka, Shawnee County	27	1350CST				1	4	0	0	Lightning Lightning struck a tree at the Shawnee Country Club Golf Course, killing one person and injuring four more. All were golfers who had sought shelter from the rain underneath the tree. The man killed was leaning against the tree and the one most seriously injured was very near it. The other three who were injured were a few feet further away. They were treated and released from the hospital.
Tescott, Ottawa County	27	1400CST				0	0	5	0	Lightning Lightning struck a farm near Tescott and burned several outbuildings and some machinery. The farm home was also damaged by the fire.
Caney, Montgomery County	28	1542CST				0	0	2	0	Wind Thunderstorm winds damaged some trees and overturned a shed 4 miles west of Caney.
Cherokee, Crawford County	28	1717CST				0	0	4	0	Wind Thunderstorm winds tore the roof from a cafe, caused other minor roof damage and downed power lines in Cherokee.
Oberlin, Decatur County	29	2000CST				0	0	5	0	Wind Thunderstorm winds downed trees and power lines and caused scattered property damage in the Oberlin area.
Sublette, Haskell County	31	0145CST				0	0	2	0	Wind Thunderstorm winds caused minor damage to trees and a few vehicles 15 miles north of Sublette.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1983

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED <sup>1</sup> DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>15 KENTUCKY</b>									
Jefferson County	04	1400EST			0	0	3	0	Thunderstorm Winds
									Forty mile per hour thunderstorm winds downed numerous trees and left one thousand homes without electricity for a time in Louisville.
Hardin County	04	1630EST			0	0	2	2	Thunderstorm Winds
									Thunderstorm winds uprooted several trees south of Elizabethtown.
Adair County	05	1330-1400EST			0	0	3	3	Hail, Thunderstorm Winds
									Extensive hail and wind damage was reported to crops around Fairplay and Harley's Ridge. High winds blew a number of telephone poles and trees down along Highway 768 between Highway 704 and Harley's Ridge. Several barns and one residence also sustained wind damage.
Marion County	05	1355EST			0	1	3	0	Thunderstorm Winds
									High winds damaged utility poles near St. Mary in Marion County. Scattered reports of hail were noted throughout the county. A tree fell on a vehicle trapping and injuring one occupant.
Taylor County	05	AFTN			0	0	0	0	Thunderstorm Winds
									A boat capsized on Green River Lake during a strong thunderstorm.
Madison County	05	1500EST			0	0	4	0	Lightning and Thunderstorm Winds
									Electrical service was interrupted when lightning struck power lines in Richmond. Gusty winds which accompanied the thunderstorm knocked some trees onto power lines causing further problems. The roof of a car wash along with all of the equipment attached to it also fell victim to the storm.
Hardin County	05	AFTN			0	0	4	0	Thunderstorm Winds
									Interior masonry walls being constructed at the Elizabethtown Vocational-Technical School blew down in a thunderstorm. Other damage involved downed trees and power lines.
Todd County	06	1535-1600EST			0	0	4	0	Thunderstorm Winds, hail
									Straight line winds to 65 miles an hour, blew down numerous trees, a tobacco barn, and several out-buildings. Wind damage was extensive to sheet metal roofing. Scattered hail was reported.
Daviess and McLean Counties	06	1740EST			0	0	3	0	Thunderstorm Winds
									Thunderstorm winds up to 75 miles an hour moved through Daviess and McLean County destroying a concrete block building on Kentucky Highway 140, one mile west of Guffy. Some cars were forced off the road by the winds.
Boyd and Knox Counties	09	1510-1525EST			0	0	4	2	High Winds, Hail
									A severe storm packing 80 to 100 mile an hour winds hit the Ashland area (Boyd Co) causing several power outages. Roofs were ripped off several buildings and numerous trees were uprooted. Power and telephone lines fell. The loss of electrical power was widespread. Hail, 1/4 inch in diameter fell in Barbourville, (Knox Co).
Green County	11	1330EST			0	0	4	0	Thunderstorm Winds
									A barn was destroyed by high winds in Summersville.
Marion County	11	1400EST			0	0	4	3	Thunderstorm Winds, Hail
									Trees were ripped out of the ground and a barn was demolished near Gravel Switch. The loss of the barn was estimated at \$14,000. Trees were also uprooted in Lebanon. Hail left a narrow strip of damage east and west across the county. Marion County area vocational school sustained \$15,000 worth of roof damage.
Boyle and Mercer Counties	11	1430EST			0	0	4	3	Thunderstorm Winds, Hail
									Trees and power lines fell prey to high winds that moved across Boyle and Mercer Counties. One house and a barn were destroyed in the Forkland area, (Boyle County). Another barn in the Shakertown area, (Mercer County), was also destroyed. Hail and wind damage was reported to tobacco and corn fields along Kentucky Highway 37.
<b>— KENTUCKY</b>									
Warren County	11	1500EST	Short Narrow		0	6	4	0	Tornado (F1)
									A mini tornado overturned a mobile home injuring six people and damaged several other trailers in the Greenwood trailer park north of Bowling Green. Trees were uprooted and power lines were downed blocking traffic.
Logan County	11	1545EST			0	0	4	0	Thunderstorm Winds
									A roof was blown off of a car wash in Lewisburg. Windows were blown out of an oilfield supply company. Trees were downed throughout the county.
Clark County	11	1550EST	Short narrow		0	0	0	0	Tornado (FO)
									A tornado briefly touched down 1.5 miles south of Winchester on Irvine Road.
Clark County	11	1555EST			0	0	3	0	Thunderstorm Winds
									Widespread power outages were reported in Winchester as well as numerous trees uprooted blocking roads.
Warren County	11	AFTN			0	0	4	0	Thunderstorm Winds
									The roof of the State Highway Garage near Bowling Green was reported damaged by high winds. Also, another roof was blown off a rock and stone company building near the Stimpson/Warren County lines.
Pulaski County	11	AFTN			0	0	3	0	Lightning
									Power outages occurred throughout Pulaski County when lightning hit two 65,000 volt transmission lines near Science Hill. Many trees were also damaged.
Butler County	11	AFTN			0	0	4	0	Thunderstorm Winds
									High winds swept through Ellsberry 5 miles northwest of Aberdeen on Route 41 tearing off a barn roof and the underpinning of a trailer. A building was smashed and trees uprooted. Power outages were many.
Metcalf County	11	AFTN			0	0	4	3	Thunderstorm Winds and Lightning
									Destructive winds tore a roof off a barn on Highway 163 and destroyed an attached shed. Lightning burned a barn along with its contents in Edmonton. Electrical outages were many. Local crops sustained wind damage.
Todd County	11	1600EST			0	0	3	3	Thunderstorm Winds
									Strong winds and small hail was reported south of Guthrie.
Whitley County	11	1630-1600EST			0	0	4	0	Thunderstorm Winds and Lightning
									Lightning destroyed a barn by fire in Woodbine. Lightning Electrical power lines were blown down in Corbin. Winds shattered a metal shed in Hart Hollow.
Mercer County	11	AFTN			0	0	0	0	Thunderstorm
									Power was knocked out to the James B. Haggin Memorial Hospital in Harrodsburg during a severe thunderstorm.
Taylor County	11	AFTN			0	0	3	0	Thunderstorm Winds
									A tool shed roof was ripped off by strong thunderstorm winds on Stone Quarry Road.
Clinton County	11	1700EST			0	0	4	0	Lightning
									Lightning destroyed a barn at Browns Crossroads and a house including its contents and an out-building in Shipley.
Harlan County	11	1730EST			0	0	4	0	Thunderstorm Winds
									A large falling tree sheared off a porch in the city of Harlan during a severe thunderstorm. Three-fourths of the Harlan and Clover Fork area were without electricity or television when power lines were knocked down by falling limbs and trees.
Magoffin County	11	1855-1945EST			0	0	0	?	Hail
									Nickel size hail and high winds were reported at Salyersville.
Floyd County	11	AFTN			0	0	?	?	Thunderstorm Winds
									Wind damage was reported throughout Floyd County in Southeast Kentucky.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1983

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

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

— KENTUCKY										
Magoffin County	12	Night			0	0	3	3	Thunderstorm Winds and Hail	Strong winds felled trees through the county and did minor damage to corn and tobacco crops in Salyersville.
Garrard County	12	EVE	Short	Narrow	0	0	4	0	Tornado (F0)	A mini tornado pulled trees out of the ground, destroyed 2 tobacco barns, a supply barn, and a silage wagon on Gaffney Road. Damage was estimated at \$15,000.
Clark County	20	1700EST			0	0	4	3	Thunderstorm Winds and Lightning	A severe thunderstorm packing very strong winds and severe lightning caused numerous power outages in Winchester.  The marquee and screen at the Skyvee Drive-in were leveled. A barn and two mobile homes were lifted from their foundations. A number of electrical fires and small tree and grass fires were ignited by lightning. Trees fell across power lines causing further power problems. Damage was done to the barley and corn crop.
Letcher County	21	1500-1600EST			0	0	3	0	Thunderstorm Winds	Numerous trees were downed and power outages were widespread in Whitesburg when strong thunderstorm winds roared through the County.
Boyd County	22	1930EST			0	2	4	0	Thunderstorm Winds and Lightning	Seventy mile per hour winds downed power lines and broke windows in Ashland. Lightning damaged several houses and caused two small transformer fires on utility poles. A section of a roof blew off an auto parts center collapsing on a car injuring two people. Downed trees fell on vehicles and blocked several roads.
Pulaski County	23	MID MRNG EST			0	0	2	0	Thunderstorm Winds and Lightning	Strong thunderstorm winds downed several trees in Somerset and Ferguson. Lightning damaged several transformers. Lightning also struck a flagpole at the Pulaski County YMCA, burst the concrete at the base of the pole and tossed mud on a car across the street.
Henry County	23	1833EST			0	0	?	0	Hail, High Winds	Hail and high winds were reported west of Eminence.
Henry County	23	1834EST			0	0	0	0	Funnel Cloud	A funnel cloud was sighted west of Eminence.
Henry County	23	1843EST			0	0	2	0	Hail, Wind	Hail was reported at Lockport and Port Royal. Trees bent to the ground in high winds.
Washington County	24	1615EST			0	1	2	0	Lightning	A woman sustained physical injuries of deep second and third degree burns on the two middle fingers on her left hand when lightning apparently struck a power line and arched to her hand as she reached to unplug an air conditioner. The incident occurred 3 miles south of Springfield on Jintown Road.
Washington County	24	1630EST			1	2	0	0	Lightning	A seven year old girl was killed, and a 9 year old boy and a 6 year old girl were injured when lightning struck a treehouse that they were playing in at Springfield.
Washington County	24	1630EST			0	1	1	0	Lightning	A man was injured when lightning struck him while grasping a doorknob in Springfield.
Lincoln County	24	AFTN			0	0	3	4	Thunderstorm Winds, Hail	A severe thunderstorm sent 6 barns crashing to the ground and pelted tobacco and other crops with golfball size hail in the small community of South Fork. Roofs were heavily damaged. Numerous trees were split. An \$800.00 television antenna was bent off of a house.

— KENTUCKY										
Larue County	24	AFTN			0	0	3	4	Thunderstorm Winds, Hail	Strong winds, golfball size hail, and gusting rain did considerable damage to a small area between Hodgen and Magnolia. The tobacco crop was shredded by hail and two barns were destroyed.
Boyd County	25	1500EST			0	0	4	2	Thunderstorm Winds, Lightning	A severe thunderstorm moved through Ashland blowing 1/2 of a roof off a wing at the Motel Queen and damaged a metal building. Lightning damage to transformers and power lines was widespread.
Boone County	26	1400EST			0	0	4	0	Lightning	The city building of Walton was destroyed by a lightning ignited fire destroying records dating back to the 1800s. The police headquarters was also destroyed.
Oldham and East Jefferson Counties	27	1610EST			0	0	3	0	Thunderstorm Winds	Winds of 50 to 60 miles per hour roared through Oldham and Eastern Jefferson Counties downing trees and some power lines. Several roads became blocked by debris. A patio ceiling was destroyed in Pewee Valley.
Fayette County	27	1613EST			0	0	2	?	Hail	Hail, one inch in diameter, fell south of the Bluegrass Airport in Lexington.
Cumberland County	27	1620EST							Thunderstorm Winds	High winds downed trees and power lines in Cumberland County.
Jessamine County	27	1620EST			0	0	3	3	Thunderstorm Winds, Hail	Rural power outages were substantial from fallen trees and limbs when a severe thunderstorm packing high winds moved through Jessamine County. Small hail did minor damage to the tobacco crop.
Shelby County	27	1620-1650EST			0	0	3	0	Thunderstorm Winds	The Shelby County Sheriff reported numerous downed trees that caused damage to houses and utility lines in the county.
Scott County	27	1625EST			0	0	0	2	Lightning	Grass fires were set by lightning north of Georgetown.
Fayette County	27	1626EST			0	0	4	0	Thunderstorm Winds	60 mile per hour winds accompanied by hail, 3/4 inch in diameter, was reported in the Lexington area. The Lexington Fire Department reported lightning produced a fire that did extensive damage to a house in south Lexington. There were numerous reports of trees and downed power lines. Some street and basement flooding also occurred.
Boyle County	27	1700EST			0	0	2	0	Thunderstorm Winds	Downed power lines caused by falling trees and limbs caused power outages in Danville.
Scott County	27	LATE AFTN			0	0	2	0	Thunderstorm Winds	Numerous trees and power lines were reported down in Scott County.
Madison County	27	AFTN			0	0	2	0	Thunderstorm Winds	Large trees were uprooted by strong thunderstorm winds at the Berea Country Club.
Monroe County	27	1825EST			0	0	2	?	Thunderstorm Winds and Hail	Pea to marble size hail was reported in Monroe County as well as several trees down.
Monroe County	27	1915EST			0	0	4	4	Thunderstorm Winds	Strong winds flattened several corn and tobacco fields and tore down several trees, signs, and small buildings in the Tompkinsville area. Scattered marble size hail was also reported.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1983

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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	

## KENTUCKY

Montgomery County	27	AFTN			0	0	4	0	Thunderstorm Winds Twenty farm buildings and one barn were leveled by high winds in the vicinity of Camargo Road and Levee Road. Numerous trees were uprooted and power lines downed.
Cumberland County	27	2030EST			0	0	4	0	Lightning A home was struck and damaged by lightning in Burkesville.
Trimble County	28	0300EST			0	0	3	0	Lightning A home was struck by lightning and damaged on US 421 near Bedford.
Logan County	28	1650EST			0	0	3	3	Thunderstorm Winds A barn blew down and the tobacco crop was damaged near Highway 79, seven miles south of Russellville during a thunderstorm.

## 16 LOUISIANA

Evangeline, Allen, St. Landry, East Baton Rouge, Ascension, and Livingston Parishes	01-02	0000CST 0200CST					7		Flash Flood A weak tropical wave moved slowly across southern Louisiana producing 24 hour rainfall amounts of 12-15 inches. The area most severely impacted by the heavy rain extended from Mamou, Oakdale, and Eunice in Evangeline, Allen, and St. Landry parishes eastward to East Baton Rouge and Livingston Parishes. The rain began about midnight on the 1st and continued into the early morning of the 2nd. Flooding was widespread with numerous roads closed. Homes either damaged or destroyed listed by parish are as follows:  <table style="margin-left: 20px; border: none;"> <tr><td>Evangeline</td><td>100</td></tr> <tr><td>St. Landry</td><td>60</td></tr> <tr><td>Ascension</td><td>36</td></tr> <tr><td>Allen</td><td>200</td></tr> <tr><td>East Baton Rouge</td><td>254</td></tr> <tr><td>Livingston</td><td>137</td></tr> </table> Only a few minor injuries were reported and no deaths could be directly attributed to the heavy rain. Total damage will likely exceed 10 million dollars.	Evangeline	100	St. Landry	60	Ascension	36	Allen	200	East Baton Rouge	254	Livingston	137
Evangeline	100																				
St. Landry	60																				
Ascension	36																				
Allen	200																				
East Baton Rouge	254																				
Livingston	137																				
Livingston Parish	01	1910CST	1	200	0	0	6		Tornado (F1) A tornado touched down west of the town of Springfield and severely damaged 10 houses. The tornado was sighted by the Springfield Police Chief. The path was about a mile long and 200 yards wide. Damage was estimated near \$500,000. No injuries or deaths resulted.												
Orleans Parish	02	0805CST							Waterspouts Several waterspouts were sighted near the Lake Pontchartrain Causeway.												
Plaquemines Parish	03	1020CST							Funnel Clouds Several funnel clouds were observed over the Belle Chase Naval Air Station.												
Livingston Parish	05	1735CST							Funnel Cloud A funnel cloud was sighted north of Walker just south of Interstate 10.												
Orleans Parish	10	1420CST			?	?			High Wind Wind gusts to 50 knots accompanied a thunderstorm near Lakefront Airport. Only minor damage to trees resulted.												
St. Bernard Parish	11								Lightning An oil storage tank was struck by lightning at Murphy Oil Company in Meraux. No damage estimate is available.												
St. Martin Parish	19	1400CST							High Wind Minor damage to trees and roofs occurred during a thunderstorm due to high winds. The damage occurred at Henderson.												
Claiborne Parish	25	1515CST							Lightning and High Wind A thunderstorm accompanied by high wind downed numerous trees near the town of Haynesville. Also, one house was struck by lightning.												
Jackson Parish	29	1720CST					4		Lightning One house was severely damaged by a fire started by lightning.												

## 17 MAINE

Knox County	02	0300EST			0	0	3	0	Lightning In St. George, lightning struck a flagpole on top of an A-frame house, traveled down the pole, and started a minor fire in the house.
Cumberland County	02	1430EST			0	0	4	?	Severe Thunderstorm A thunderstorm struck the north end of Westbrook with high winds, and 3/4 inch hail. The Westbrook police reported many trees and limbs down, producing minor power outages. The hail caused some crop damage.
Oxford, Southern Franklin, Northern Kennebec, Southern Somerset, Southern Piscataquis, and Southwestern Penobscot Counties	08	1500EST			0	2	6	0	Thunderstorms A squall line swept across the state leaving much damage in its wake, especially over southwestern and central Maine. Severe thunderstorms produced gale force winds with gusts estimated around 60 mph. Numerous large trees that were toppled by the wind caused most of the damage. They blocked many roads, impeded travel, damaged vehicles and buildings, and tore down numerous power lines. Blackouts were widespread through the region with the largest power outage occurring in Somerset and western Penobscot Counties where more than 15,000 customers were without power from 2 to 20 hours. In Skowhegan, a woman was injured when struck by a tree limb, 6 consecutive utility poles were snapped off, a garage was lifted off its foundation and collapsed, and lightning struck a house doing major damage to the water system. In Belgrade, a 60 foot spruce fell on a car injuring the driver, and the winds generated 4 foot waves on Long Pond. In Pittsfield, a 3-story hen house was pushed over that contained 31,000 laying hens, and a pickup truck was lifted off a road and carried 20 to 30 feet onto a lawn. At Newport's Sky Park, a 30 by 40 foot steel hangar was ripped out of the ground and rolled over on its roof doing damage to the plane stored inside, and another light plane was lifted end over end, hitting 2 other planes before coming to rest at the edge of the woods. The winds also tore the roofs off an East Madison home, 3 Skowhegan buildings, and a Lakewood camp. Kingfield had 5/8 inch hail, which was the only hail reported.
Franklin County	08	2000EST			0	0	5	0	Thunderstorm A thunderstorm produced lightning which struck a home in New Salem, causing a fire which burnt the dwelling to the ground. In New Sharon, winds from the thunderstorm toppled a tree onto a house, smashing the chimney.
Statewide	20	0800EST			0	0	5	0	High Winds A cold frontal passage Saturday morning ushered in a strong northwest wind that fluctuated greatly during the afternoon. Assorted power outages were reported due to many broken tree limbs and trees falling onto power lines. The winds raised havoc with boating on the lakes. In Greenville, winds gusted to 49 mph, flipping a small floatplane just after lift-off from Moosehead Lake, unhooked the Forestry Services dock, and tore the veranda off a store.

## 18 MARYLAND and D.C.

Central and Western	1	Afternoon			0	0	5	0	Wind Scattered severe thunderstorms broke out ahead of a cold front. Between 1PM and 3PM, locally strong winds hit Prince Georges and Anne Arundel Counties. At Andrews Air Force Base two buildings were damaged, along with 3 aircraft based at the field, with runways having to be closed for over an hour. Seven nearby communities were affected by power outages and scattered property damage. The Hillsmere section of Anne Arundel County also reported many trees down, some damaging houses and parked autos.
Central and Western	5	Afternoon			0	0	5	0	Lightning, Rain Heavy thunderstorms brought widespread power interruptions and flooded basements beginning in the Frostburg-Clarysville area in Allegany County, and in Hagerstown shortly after 12 Noon and continued over the the remaining portion through the balance of the afternoon. Some 300,000 homes were affected by power outages and many reported minor damage from lightning strikes. More serious damage occurred in the Libertytown area of Frederick County, where a barn burned to the ground. In Finksburg, Carroll County, where a \$200,000 warehouse was gutted, and in Jessup where an abandoned building was destroyed, all by lightning-caused fires. At Columbia in Howard County, 15 homes had lightning hits...one having an 8-ft portion of the chimney exploded by a lightning bolt.
North Central, Northeastern and District of Columbia	11	Afternoon			0	0	4	0	Wind, Rain, Lightning Low pressure moving eastward from the Great Lakes region set off widespread heavy thunderstorm activity. Some 36,000 homes had electrical outages, from the District of Columbia and Montgomery County on the west, eastward through the Baltimore City area and into Cecil County. In Carroll County winds gusted to 60 mph, while a measured 3 inches of rain fell at Finksburg. Hardest hit was the town of Betterton, Kent County, where 100 trees were blown down, damaging many homes and vehicles shortly after 5PM. At about the same time, a doctor's office in Elkton was damaged by fire and smoke following a lightning strike.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1983

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					KILLED	INJURED	PROPERTY	CROPS	

**MARYLAND and D. C.**

Statewide	22	Late Afternoon- and Evening	0	3	6	3	Wind, Lightning		
<p>Pre-coldfrontal activity again brought major power disruptions, with roads blocked, buildings and autos damaged or crushed by fallen trees. The town of Brunswick was one of the hardest hit when, at around 6PM, winds tore off the roof and collapsed a wall of a bowling establishment. Three persons inside were injured, while sixty others managed to escape unhurt. Wind also blew down 5 townhouses under construction in Silver Spring. Loss estimated at around \$150,000. Lightning was responsible for a major fire in a 3-story residence at Port Deposit, and a \$100,000 house fire in Gaithersburg, along with the destruction of at least two farm buildings and some livestock elsewhere in the state, between 6PM and 8PM.</p>									
Western	28	Evening	0	4	3	0	Wind, Lightning		
<p>Lightning struck a building and tree, near which two teenage boys were standing, at around 6PM in Hagerstown. They were slightly shaken up. Near Clear Springs, also in Washington County, two men were slightly injured when the pick-up truck in which they were riding struck some wind-downed tree limbs.</p>									
Perry Hall	29	0100EST	0	0	5	0	Lightning		
<p>Lightning struck and set fire to a 112-year-old chapel. Damage was estimated to be near \$100,000.</p>									
Anne Arundel and Queen Annes Counties	29	Evening	0	0	4	0	Lightning, Wind		
<p>At 6PM strong thunderstorm winds took down trees and power lines in Annapolis. Later, around 8PM, lightning destroyed a large barn and \$1,000 worth of hay stored inside.</p>									
Charles County	31	1500-1700EST	0	0	3	0	Rain, Lightning		
<p>Heavy rain during a thunderstorm caused flooding in low spots, up to car-hood high in some localities in the St. Charles section of Waldorf, and also in the LaPlata area. Between \$3,000 and \$4,000 damage was done to the air conditioning system of a bank by a bolt of lightning.</p>									

**19 MASSACHUSETTS**

Greenfield	01	About 1400EST	0.1	13	0	0	0	0	Tornado (F1)
<p>A small tornado touched down briefly in the northwest part of town near Lunt Drive cutting a narrow swath where 60-80 foot tall pine trees were either snapped off 12-15 feet from the ground or up-rooted. The tornado was part of a heavy thunderstorm with gusty winds, lightning, and heavy rain. Power was disrupted to about 2,000 electrical customers.</p>									
Sturbridge Area	01	Mid-Afternoon	0	0	0	0	0	0	Funnels
<p>A state trooper spotted a funnel cloud in the area. One was also reported in Palmer as a tornado warning was issued for eastern Hampden County. Heavy thunderstorms moved through the area.</p>									
Russell	01	Mid-Afternoon	0	0	?	0	0	0	Lightning
<p>A bolt of lightning snapped off a 100 foot tall pine tree sending it crashing through the roof of a home leaving a 10 foot hole.</p>									
West Stockbridge	04	1215EST	0	0	0	0	0	0	Funnel
<p>Several eyewitness accounts were received of a funnel cloud which moved from NW to SE near the Berkshire Truck Plaza in the same area that a destructive tornado occurred in 1973.</p>									
Northern Bristol, Norfolk & Northern Plymouth Counties	04	Early Evening	0	0	4	0	0	0	Heavy Rain, Local Street Flooding, Lightning
<p>A severe thunderstorm accompanied by vivid lightning, briefly very heavy rains and gusty winds passed through the area dumping 2.5 to 3.5 inches of rain in the Foxboro-Sharon area. Lesser amounts of up to two inches elsewhere came in less than one hour resulting in heavy local street flooding. The Southeast express way in Milton was closed to traffic for up to two hours when three to four feet of water forced people to abandon their automobiles. Many had to be towed from the roadway. Lightning caused many power outages and some minor fires.</p>									
East Coastal Areas	12	All Day	0	0	0	0	0	0	Strong to Gale Winds
<p>Strong to gale northeast winds lashed the area with wind gusts up to 40 to 55 MPH shaking boats loose from their moorings, causing heavy seas, scattered power outages and some minor flooding.</p>									
Stowe	27	Late Afternoon	0	2	4	0	0	0	Lightning, Thunderstorm/Winds
<p>Two golfers were struck by lightning and injured as they stood in among some trees at the Stow Acres Country Club. Wind gusts up-rooted and broke down some trees which fell onto several autos causing damage.</p>									

**MASSACHUSETTS**

Natick	27	1815EST	0	4	0	0	0	0	Lightning
<p>Four persons were injured by a bolt of lightning while they stood on a porch watching a thunderstorm.</p>									
Waltham, Needham, Newton Area	27	Early Evening	0	0	?	0	0	0	Lightning, Heavy Rain, Gusty Winds, Local Street Flooding
<p>Scattered heavy thunderstorms brought heavy rain and street flooding to the area as lightning bolts struck some homes and caused minor fires. A few streets were blocked by flooding.</p>									
Nahant	27	Early Evening	1	0	0	0	0	0	Thunderstorm Winds
<p>A rowboat capsized and a man was reported missing and presumed drowned just offshore during a thundersquall.</p>									
Quincy Area	28	0000-0200EST	0	0	?	0	0	0	Lightning, Heavy Rain, Flooding
<p>Unusually frequent and vivid lightning accompanied a heavy thunderstorm which caused scattered power outages and knocked out the Quincy police radio system. Heavy streets flooding closed the Southeast express way in Milton and Quincy for three hours. Some small hail was also reported.</p>									
Eastern Portion	29	Morning	0	0	5	0	0	0	Heavy Rain, & Flash Street & Highway Flooding, Lightning
<p>Deluges of rain and heavy street flooding in Peabody, Lynn, Lynnfield, Quincy, and Milton. In Lynn, flooding on Munroe street caused merchants about \$100,000 damage as downpours overwhelmed the sewerage system at high tide. The Southeast express way was again closed due to flooding for the second morning going. A home was struck by lightning in Wakefield. Over 2 inches of rain fell within less than an hour and a half.</p>									

**20 MICHIGAN**

Southern Sanilac County, Northern St. Clair County:	08	1645-1745EST	0	1	5	0	0	0	Thunderstorm
Sanilac County	<p>1645-1745. Hailstones generally 1"-1½" locally up to 2½ near Melvin. 25 cars, 40 buildings damaged. Heavy crop loss. One person injured in auto accident during heavy rain.</p>								
St. Clair County	<p>1715-1745. Trees and power lines down. Hail up to 1½" at Yale. 50 cars, 60 buildings damaged.</p>								
Area bounded by Kalamazoo, Holland, Howard City, Okemos, and Albion:	21	1515-1830EST	0	0	5	0	0	0	Thunderstorm
Allegan County	<p>1515-1630. Large trees and power lines down. Tornado listed below started as funnel aloft near Otsego.</p>								
Kent County	<p>1550-1645. Gusts to 55 mph near Grand Rapids. Trees down. Counter clockwise cloud rotation observed.</p>								
Barry County	<p>1600-1700. See tornado listed below. Falling tree damaged house. 3500 homes lost power.</p>								
Montcalm County	<p>1630-1715. Heavy rain and strong winds.</p>								
Kalamazoo County	<p>1695-1730. Minor power outage north portion.</p>								
Calhoun County	<p>1700-1745. Minor power outage Battle Creek area. Limbs down in Albion.</p>								
Ingham County	<p>1715-1830. Unconfirmed funnel cloud over Lansing. Lightning started \$70,000 fire in East Lansing apartment building.</p>								
Gun Lake, Barry County.	21	1615EST 0.6	15	0	0	2	0	0	Tornado (F0)
<p>Funnel aloft observed several minutes earlier at Otsego. "Waterspout" seen crossing lake. Window blown out of house at north end of lake. Several trees down just north.</p>									
Muskegon County	21	1915-2000EST	0	0	3	0	0	0	Thunderstorm
<p>Trees and power lines down Norton Shores, Fruitport, and Laketon areas. Lightning damage to power lines. 3500 homes without power.</p>									
Hale, Iosco County.	22	0015EST	0	0	5	0	0	0	Lightning
<p>Large grain elevator destroyed by fire.</p>									
5 miles SW of Manchester, Washtenaw County.	22	0045EST							Funnel Cloud

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1983

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

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## MICHIGAN

Marquette County.	29	1503EST 1½" hailstones at Negaunee. 1521EST 1½" hailstones 1 mile west of Marquette.							Hail
Gladwin, Ogemaw, and Oscoda Counties:	29	1800-1845EST							Thunderstorm
Gladwin County		1800-1830. Tree limbs down.							
Ogemaw County		1800-1830. Large signs destroyed, trailer burned.							
Oscoda County		1800-1845. Many trees and power lines down.							

## 21 MINNESOTA

Grand Rapids (Itasca Co.)	2	2200-2300 CST							Heavy Rain
		Four to five inches of rain fell in one hour in Grand Rapids. The hospital evacuated 56 people due to flooding of the basement, causing toxic fumes to be released. Three people required treatment.							
Fertile (Polk Co.)	7	2010 CST							Hail
		An observer 10 miles east of Fertile reported quarter size hail.							
Bemidji (Beltrami Co.)	7	2116 CST							Hail
		Golf ball size hail was reported 10 miles west and 20 miles north of Bemidji.							
Beltrami Co.	7	2131 CST							Hail
		Golf ball size hail was reported in Turtle River and Wilton.							
Goodhue and Wabasha Counties	15	1600-1715 CST							Wind, Hail
		Thunderstorms with high wind and hail struck in a two to three mile wide and a 20 mile long path extending from Red Wing south to Elgin. Winds of 78 mph were reported along with golf ball size hail. Many crops were destroyed as well as several apple orchards. One woman was injured when a tree limb fell on her.							
West Central and Central	19	0500-0600 CST							Wind
		Thunderstorms with damaging winds and hail swept through west central and central Minnesota. They produced winds up to 97 mph and damaged several buildings in Alexandria. Numerous trees were uprooted and limbs broken off damaging many of the campers parked at Hagstrom's Resort near Alexandria. Five aircraft were damaged at the Alexandria Airport. Other farm buildings were damaged also.							
St. Louis County	24	0200 CST							Wind
		Strong winds cut a 30 to 40 foot wide and 200 foot long swath through trees 9 miles northeast of Virginia.							
Ostrander (Fillmore Co.)	25	0000 CST							Wind
		Strong winds struck a farm two miles west of Ostrander and blew two grain bins onto a house and heavily damaged two sheds.							
Faribault (Rice Co.)	25	2145 CST							Wind
		Winds estimated at 60 mph knocked over three timbers and injured two people at Camp Faribo.							
St. Hilaire (Pennington Co.)	25	2200 CST	1½	100	0	0	5	?	Tornado (F2)
		A tornado touched down on a farm just southwest of St. Hilaire and toppled a concrete silo onto a barn destroying a 70 ft. section of the barn.							
Pennington, Polk and Red Lake Counties	25	2200-2230 CST							Wind, Hail
		Thunderstorms with very strong winds and hail spread across much of the northwest part of the state and damaged numerous buildings and flattened crops. Most of the damage was done in the Crookston, Wylie and St. Hilaire areas.							

## MINNESOTA

North Central and Northeast	26	0000-0400 CST							Wind, Lightning
		Thunderstorms moved east through north central and northeast Minnesota during the early morning. Damage mainly from falling trees occurred from Bemidji eastward through Itasca, Cass, St. Louis and Lake counties. Falling trees caused widespread power outages and damaged several homes and automobiles. Eighty trees were reported down along a 30-mile stretch of Highway 38 north of Grand Rapids. The area from Grand Rapids to Hibbing was heavily damaged as was a campsite 30 miles north-northeast of Duluth where 10 of 15 campsites were leveled. Lightning started several fires near Virginia.							
Clontarf (Swift County)	27	1115 CST							Funnel
Pope County	27	afternoon							Funnel
		Funnel observed 5 miles west of Starbuck.							
Roseau, Lake of the Woods, Koochiching Counties	27	1630-2400 CST							Wind, Hail
		Thunderstorms with downburst winds as high as 80 mph and large hail hit extreme northern Minnesota. At 1645 CST golf ball size hail was reported to a depth of 5 inches 7 miles south of Roseau and at the same time golf ball size hail covered the ground 17 miles south of Roseau. Numerous reports of golf ball size hail were received between 1926 and 2200 CST in Roseau County. Winds knocked down a barn south of Warroad and trees were blown over at several locations. Hail damaged gardens and stripped foliage from trees. Only minor building damage was reported from the wind and hail.							
West Central	28	0730-1130 CST							Wind, Hail
		Thunderstorms moved into Minnesota near Browns Valley and moved southeast along the Minnesota River causing crops to be damaged and trees to be blown down. Crops were heavily damaged in Lac Qui Parle county southwest of Watson. Property damage occurred in Montevideo due to falling trees and gusts of 60 mph. The thunderstorms weakened as they moved through Renville and Redwood counties into south central Minnesota.							
Koochiching, Itasca, St. Louis Counties	28	1000-1445 CST							Hail
		Hail one inch in diameter fell near Little Fork in Koochiching county at 1000 CST. The thunderstorms producing this hail moved southeast through the northeast corner of Itasca county and into central St. Louis county.							
Central	28/29	1830-0330 CST							Wind, Hail
		An area of thunderstorms crossed the Minnesota border into Clay county dropping golf ball size hail northeast of Moorhead and at Georgetown. These thunderstorms moved southeast through Ottertail and Todd counties. As these thunderstorms approached St. Cloud a second area of thunderstorms moved across the west central border and eventually formed a line of thunderstorms from St. Cloud southwest through Kandiyohi county. This line then moved east and southeast through the Twin Cities and toward Mankato before dissipating. Although damage was minimal, gusts to 60 mph were reported.							
Lake of the Woods, Koochiching and St. Louis Counties	29	0750-1000 CST							Wind
		Strong thunderstorm winds were reported from Lake of the Woods county east across Koochiching county and northern St. Louis county. Tree damage occurred at Carp, Big Falls and Loman. Power lines were down 3 miles east of International Falls and damaging winds were reported from Ely.							
West Central	29	1030-1300 CST							Hail
		An area of thunderstorms moved east through Clay county and dropped hail 1½ inches in diameter at Hawley. This area of thunderstorms continued to move east through Detroit Lakes and just north of Brainerd but no reports of damaging weather were received.							

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AUGUST 1983

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MINNESOTA										
South	29	1530-2200 CST			0	3	5	5		Hail, Wind, Lightning
Thunderstorms with strong downburst winds, frequent lightning and hail crossed the western border of Minnesota into Traverse county. These thunderstorms moved southeast causing widespread damage north of the Minnesota River and as far east as the Twin Cities metropolitan area and Faribault before weakening. One girl was injured near Appleton as she ran seeking shelter. Two other injuries occurred near Faribault when strong winds overturned three camper trailers. Lightning started fires and damaged four houses. The houses were located in Paynesville, just east of Benson, in Cokato and in Faribault. Numerous buildings were damaged or destroyed. The hardest hit area was through Swift and Kandiyohi counties into Meeker county. In Swift county several barns and a number of grain storage bins were destroyed. A motel roof, an airport hangar and several homes were heavily damaged. North of Willmar a garage was blown off its foundation and was smashed into a neighbor's house. Two airplanes were overturned in Paynesville. Crop damage from wind and hail was reported from the counties of Stevens, Swift and Chippewa. The wind knocked down numerous trees occasionally resulting in power outages. The wind also knocked radio station KDMA in Montevideo off the air. A gust of 80 mph was measured at Litchfield.										
Stevens County	29	1742 CST			0	0	0	0		Funnel
Funnel observed 5 1/2 miles south of Alberta.										
Meeker County	29	2015 CST			0	0	0	0		Funnel
Funnel observed 3 1/2 miles northeast of Litchfield.										
Annandale (Wright County)	29	2030 CST			0	0	0	0		Funnel

22 MISSISSIPPI										
Lee County	07	1620CST			0	0	4	0		Wind
Severe thunderstorm winds destroyed a mobile home and blew down trees and antennas six miles north of Tupelo.										
Marion County	07	2130CST			0	0	4	0		Lightning
Lightning struck two homes in the Improve community. One was destroyed by fire and the other was heavily damaged.										
Pontotoc County	31	1400CST			0	0	4	0		Wind
Severe thunderstorm winds blew down trees, broke windows and damaged the roof of a large department store in Pontotoc.										

23 MISSOURI										
St. Louis City	5	1500CST			1	2	4	0		Lightning
Lightning struck a brick building causing the northwest wall to fall onto Interstate 55 during rush hour traffic. The debris fell onto a car crushing the car, killing one person and injuring two others.										
Howell	5	1625CST			0	0	3	0		Damaging Wind
Wind downed trees near Pomona.										
St. Louis City	6	1315CST			0	0	5	0		Damaging Wind
A six family condominium, under construction was damaged by high winds during a thunderstorm.										
Stoddard	11	1530CST			0	5	6	?		Damaging Wind
A severe thunderstorm with damaging winds produced considerable damage to Dexter Missouri. One wing of a motel was destroyed and considerable damage was done to a shopping center and surrounding buildings.										
Lincoln	22	1414CST			0	0	4	0		Damaging Wind
Trees and power lines downed by wind in a severe thunderstorm near Elsberry.										

MISSOURI										
St. Louis City	22	1435CST			0	0	5	0		Large Hail Damaging Wind
The first severe thunderstorm of the afternoon to hit the city was a single storm and produced hail to one inch diameter and wind damage to a number of trees and to one building which fell and crushed a truck. Some roofs were also blown off on the near north side. This storm was ahead of a line of thunderstorms which produced damage about one hour later (See report from 1530)										
St. Charles	22	1455CST			0	0	?	?		High Wind
Wind gusts were estimated to 60 mph as a squall line moved through the County. The wind recorder at WSFO St. Peters registered 55 mph.										
Jefferson	22	1518CST			0	0	4	0		Damaging Wind
Winds in a severe thunderstorm blew off part of a roof and damaged a number of trees between Arnold and Imperial.										
St. Louis City and County	22	1530 -1600CST			0	0	6	0		Damaging Wind
A lines of thunderstorms, some severe moved through the area. A number of homes received minor damage such as portions of roofs blown off. Many power outages resulted from the downed limbs and trees. Some of the more substantial damage was around the vicinity of Tower Grove Park where many trees were uprooted and some fences down due to falling trees. A fair amount of damage was also noted in the midtown area. Damage to west County was mostly to trees.										
Phelps	26	(PM)			0	0	3	0		Large Hail Damaging Wind
Hail to golf ball size and wind damaged a roof in St. James.										
Pettis	27	1800CST			0	0	0	0		Large Hail
Hail to 1 3/4 inch diameter 15 NNE of Sedalia.										
Howell	28	1315CST			0	0	4	0		Damaging Wind
Trees downed and a roof damaged in West Plains.										

24 MONTANA										
Ekalaka	01	1630MST			0	0	4	4		Wind, Hail
Very strong winds and golf ball size hail destroyed crops, gardens, trailers and knocked out many windows in homes in and around Ekalaka.										
Ravalli & Missoula Counties	03	1600-1700MST			0	0	3	3		Hail
Hail to 3/4 inch and wind gusts to 50 MPH occurred over north Ravalli and south Missoula counties. A few trees were felled and gardens were destroyed.										
Billings	03	1830EST			0	0	5	0		Wind
69 MPH winds did considerable damage to small planes at Logan International Airport.										
Great Falls	10	1840MST			0	0	4	2		Wind
Wind gusts of 69 MPH blew down trees and limbs, damaging cars and disrupting utility service.										
Yellowstone Valley	14	1230-1400MST			0	1	4	3		Wind
Winds of 58 MPH at Livingston and 48 MPH at Billings fanned a grass fire near Park City that caused extensive damage to a feed lot and blew over a carnival concession booth at the Yellowstone County fairgrounds, injuring the concessionaire.										

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## 25 NEBRASKA

Holt County	02	0600CST			0	0	2	0	Lightning
Fire ignited by lightning destroyed a large haystack 5 miles east of Inman.									
Chase County	02	1900CST			0	0	3	0	Damaging Winds
Strong thunderstorm winds estimated 60 to 70 m.p.h. broke windows, moved small buildings, and removed a truck camping top in a mobile home court just east of Enders Dam.									
Chase County	02	1900CST			0	0	0	2	Lightning
-2030CST Lightning ignited 3 separate range fires just south of Wauneta.									
Knox County	03	0600CST			0	0	4	0	Lightning
Lightning struck and ignited barn 4 miles west and 3 miles south of Bloomfield destroying half of a barn and 225 bales of hay.									
Sarpy County	06	1700CST			0	0	2	0	Damaging Winds
A thunderstorm wind gust blew down a number of trees at LaPlatte.									
Howard County	13	0600CST			0	0	3	0	Lightning
Lightning struck several businesses in St. Paul causing several thousand dollars in damage.									
Merrick County	13	0630CST			0	1	0	0	Lightning
Lightning struck a farmer and cow near Central City with minor injury to both.									
Buffalo County	21	1702CST			0	0	2	4	Hail
One and a half inch hail covered most of the ground 3 miles north of Kearney damaging crops and a few buildings.									
Adams County	21	1745CST			0	0	2	5	Hail
One and a half inch hail fell causing considerable crop damage in a path 1 mile wide from east of Roseland to just south of Hastings.									
Gage County	22	0400CST			0	0	3	0	Lightning
Eleven head of cattle were killed by a lightning strike on a farm northeast of Filley.									
Brown County	22	1500CST			0	0	2	0	Damaging Winds
A thunderstorm gust overturned a television satellite dish at Johnston.									
Brown County	22	1510CST			0	0	5	5	Damaging Winds and Hail
Half to one and a half inch hail driven by strong thunderstorm winds broke an excess of 1000 windows at Ainsworth and damaged crops in the county. The winds also broke tree limbs and downed power lines. One cow was killed and 20 farm buildings and pieces of equipment were damaged by the winds and hail. Snow-like drifts of hail had to be shoveled.									
Rock County	22	1600CST			0	0	0	4	Hail
Hail damaged corn and hay across the county.									
Scottsbluff County	22	1710CST			0	0	2	0	Damaging Winds
Thunderstorm winds blew down a number of trees at Minatare. Half inch hail also fell.									
Morrill County	22	1757CST			0	0	3	4	Damaging Winds
Very strong thunderstorm winds blew down trees up to 3 feet in diameter at Bridgeport. Crop damage also reported in the area.									
Garfield and Valley Counties	22	1800CST			0	0	5	5	Flash Flood
-2000CST Nearly 6 inches of rain in around an hour and a half poured down on the area around Burwell, resulting in flash flooding, which damaged crops, structures and vehicles along with washing out roads and a number of dams. Area east of Burwell called Jones Canyon particularly hard hit where 12 farmsteads suffered damage including loss of livestock. A torrent of 2 to 5 feet of water rushed down the canyon carrying vehicles and a number of trailer homes downstream along with moving buildings off of foundations and damaging basements. Luckily no deaths or injuries were reported. Lowland flooding occurred downstream along the North Loup River to Ord.									
Garfield County	22	1800CST			0	0	5	4	Damaging Winds and Hail
Hail half to one and a half inches driven by winds estimated to 70 m.p.h. struck an area in and around Burwell, damaging trees, power lines, crops and structures. Portions of the rodeo arena were blown off and other buildings had roof damage. The hail broke windows and damaged siding.									
Custer County	22	2100CST			0	0	3	4	Hail and Heavy Rain
One and a half inch hail broke windows and damaged crops in the area around Sargent. Fifteen miles northwest of Sargent 3.6 inches of rain caused gravel road washout.									
Dawson County	22	2100CST			0	0	?	?	Flash Flood
Heavy rain caused 4 feet of water to flow over Highway 21 north of Lexington. No report of damage.									

## NEBRASKA

Gosper County	22	2330CST			0	0	3	3	Flash Flood
Four and a half inches of rain 6 miles southwest of Elwood in the Muddy Creek Watershed resulted in land and farm pond erosion along with washing out of county gravel roads.									
Gosper County	22	2355CST			0	0	5	0	Damaging Winds
Thunderstorm winds destroyed a number of grain bins and unroofed a garage 12 miles south of Lexington.									
York County	26	0500CST			0	0	3	0	Damaging Winds
Trees were blown down by thunderstorm winds in and just northwest of York. Windows were also blown out of a farm house northwest of York.									

## 26 NEVADA

Las Vegas, Clark County	10	0830PST						6	unk	Flash Flood
Thunderstorms in Southern Nevada developed in moist unstable air. These thunderstorms developed South of Las Vegas and moved North across the Las Vegas Valley. The heaviest rainfall occurred West of the city, in the vicinity of the Flamingo and Las Vegas washes (major, natural E-W flood channels cutting across the valley from the Spring Mountains into Lake Mead). Most streets and highways around Las Vegas were closed at times on Wednesday August 10th.										
A similar incident happened one week later on the 18th of August but flooding was not as extensive. Damage for the two storms have been estimated at over \$2 million dollars in personal property and over \$1 million dollars in roads and bridges.										
Las Vegas, Clark County	18	0800PST							see above	Flash Flood
27 S of Fallon NFL	19	1556PST								Funnel Cloud
Funnel cloud reported by NFL personnel.										
40 SW of Elko (near Boewawe)	21	1400PST	short	?	0	0	0	0	0	Tornado (FO)
A tornado was reported by a Delta Airlines pilot while driving in the area.										

## 27 NEW HAMPSHIRE

Central and Southern	01	1400EST			0	2	6	0	Severe Thunder-
storms A line of severe thunderstorms swept across the state in the afternoon, leaving much damage in its wake. Peak wind gusts reported were 75 mph by the Lebanon FSS, and in excess of 60 mph at Meredith. The many large trees that were felled caused most of the problems. They blocked many roads, impeded travel, and tore down numerous power lines. Trees damaged a house in Hanover, as well as 12 cars in Meredith. The largest power outage was to 3,000 or more customers in the Lakes Region where some island residents on Lake Winnepesaukee were without electricity for about 20 hours. In Claremont, two men were injured as a boiler malfunctioned when the power went out. The high winds produced 4-foot waves on Lake Winnepesaukee, capsizing many boats. In Glen, lightning started a fire in a Motor Inn roof doing minor damage.									
Strafford and Hillsborough Counties	06	1500EST			0	0	5	0	Lightning
Thunderstorms produced lightning which ignited a fire in a planer mill at a lumber yard in Lee, destroying the building and 3 pieces of machinery valued at \$50,000. Another lightning bolt caused fire damage to the wiring and roof of a Peterborough house.									
Coos County	08	1400EST			0	0	5	0	Thunderstorms
Thunderstorms with strong winds took down many large trees throughout the county. Trees damaged a vehicle in Berlin, bashed in a garage roof in Shelburne, and smashed into a house in Lancaster. The trees tore down power lines affecting 1,000 customers in the Connecticut Valley and another 1,500 in the Androscoggin Valley.									
Lakes Region	20	0800EST			0	1	5	0	High Winds
A cold frontal passage Saturday morning ushered in a strong Northwest wind that fluctuated greatly during the afternoon. At Squam Lake in Sandwich, a large life-board, used by lifeguards, was picked up from the beach by the wind and hurled into the parking area where it struck a woman on the head. Assorted power outages were reported throughout the Lakes Region. On Lake Winnepesaukee, winds were clocked at 66 mph in gusts and waves as high as 8 feet were reported. These conditions disabled boats, capsizing some, setting others adrift, and sinking a 31 foot cabin cruiser near Lake Shore Park. NWS Concord had a peak gust of 41 mph at 2207EST.									



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					KILLED	INJURED	PROPERTY	CROPS	

### 28 NEW JERSEY

**Mercer County, Middlesex County**    11 1745EST                    0 0 ? 0    Thunderstorm, Wind and Rain, Hail  
 A thunderstorm issuing crackling lightning bolts and fierce gusty winds knocked out power to several thousand homes and businesses. Hail the size of marbles and larger was reported. Winds gusted up to 40 miles per hour in low-lying areas. Flooding quickly occurred during the torrential downpour of rain.

### 29 NEW MEXICO

**Pinon, McKinley County**            3 Afternoon 0 0 1 0 0 0    Lightning  
 Navajo woman killed by lightning.

**Pinon, McKinley County**            5 Afternoon 0 0 2 0 0 0    Lightning  
 Two Navajos (man and wife) killed by lightning.

**Cedar Hill, San Juan County**        6 1900MST 0 0 0 0 5 5    Flash Flood  
 A flash flood ran through Cedar Hill, tearing up houses, roads and crops.

**Albuquerque, Bernalillo County**    19 1515MST 0 0 0 1 0 0    Lightning  
 A 14-year-old boy was knocked unconscious by lightning.

### 30 NEW YORK, Coastal

**Extreme SE Nassau Co., Suffolk Co., New York City & Westchester**    6 1520EST                    2 1 0 0    Lightning  
 Lightning ripped into a picnic area of Flushing Meadow Park, killing two soccer players from the Bronx when they were taking shelter from the thunderstorm by standing under a tree when lightning struck. They were dead on arrival at the hospital. Another man was also struck by lightning in the same area. He was taken to a hospital, treated for first-degree burns on his left hand, and released in stable condition. They were all members of a soccer team; when the downpour started they ran under a tree for cover and were struck by the lightning.

**Extreme SE Nassau Co., Suffolk Co., New York City & Westchester**    11 Evening                    0 0 ? 0    Thunderstorm  
 A line of severe thunderstorms passing through the metropolitan area left Long Island families without power for a time, flooded scores of roadways and disrupted Long Island Railroad service. Airports also reported delays up to three hours on arrivals and departures. Subway service throughout New York City was disrupted, with all service stopped on some lines. Hundreds of electrical outages were reported throughout the city. The outages were caused by various factors including lightning, wind and rain. Con Edison at that time was hit by a strike.

### 30 NEW YORK, Central

**Oneida Co., Saratoga Co., Clinton Co., Franklin Co., Hamilton Co., Schoenectady Co., Herkimer Co., Montgomery Co., Fulton Co., Otsego Co., St. Lawrence Co.**    08 1900EST                    1 9 5 5    Thunderstorm  
 Thunderstorms moved across Eastern New York causing widespread damage. Saratoga Co. was hardest hit, with better than half the county out of power. Strong winds ripped a barn door off its mounts, blew it across a 4-lane highway and smashed into a car. The force of the impact took off the facial features of one passenger and injured the driver. A state of emergency was declared in Keeseville, Clinton Co. Reports of a tornado had been claimed. Unofficial reports of winds over 50 MPH were made near the Plattsburg Air Base, and 75 MPH in southern Saratoga Co. Winds also blew down buildings in Fulton Co. Some barns were also blown down in Otsego Co. Severe crop damage was also reported in the Adirondacks mainly to apple and potato crops.

**Gallupville Schoharie Co.**            16 0200EST                    0 0 4 0    Lightning  
 Lightning struck a barn during the early morning hours on Saturday. The strike resulted in the barn going up in flames. "It's a total loss," claimed the owner.

**Westville Delaware Co.**            26 1630EST                    0 1 3 0    Lightning  
 A woman was struck by lightning as she was milking her cows in a barn. A brief thunderstorm moved into the area accompanied by lightning. The bolt hit the barn, travelled through the milk machine and grounded out at the victim.

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

### NEW YORK, Central

**Averill Park Rensselaer Co.**            29 1515EST                    0 0 4 0    Thunderstorm, Lightning  
 Lightning struck a home at 4:15 PM, narrowly missing one female. The resident stated she heard a loud pop, a streak passed through a bathroom window and crossed within an inch of her nose. The ball of flame crashed into a mirror and then fell into the sink. Within a half hour the house was filled with smoke. A minor fire had started. This same storm knocked out power and phones for about 250 persons. Some minor flooding also was reported in basements and from poor drainage. In some hill towns rain of over 3 inches was reported along with one-half inch hail.

**Glens Falls Warren Co.**            31/1 PM/AM                    0 0 4 0    Thunderstorm  
 A thunderstorm came through on the evening of the 31st/1st which caused minor to moderate damage in Glens Falls. Trees and power lines came down. Lightning struck a cabin in extreme northern Saratoga county causing a fire. Minor fender benders were also reported.

### 30 NEW YORK, Western

**Marietta & Wales Center, Erie County**        01 0440EST                    0 0 4 0    Wind  
 A severe thunderstorm with high winds downed many tall trees. A new car was crushed. Several outbuildings were damaged.

**Victor, East Bloomfield, and other parts of Ontario County; Parts of South-eastern Monroe, Wayne and Wyoming Counties**    01 0630EST                    0 ? 5 0    Wind, Lightning  
 A severe thunderstorm with high winds destroyed huge trees, downed power lines, damaged many homes, and crushed several cars. Lightning struck and damaged a house in West Bloomfield.

**A 2-mile stretch of homes along the Erie Barge Canal and Route 31 in Wayne County Town of Palmyra and Ontario County hamlet of Port Gibson suffered varying degrees of damages.**

**Newfield, Tompkins County**            01 Morning                    0 0 4 0    Wind  
 Strong winds uprooted many trees and blew off roofs. Power lines broke and many were without electricity for a few hours.

**Parts of Cayuga & Seneca Counties**        01 1230EST                    0 0 4 0    Lightning, Wind  
 Lightning and strong winds severed power lines. Many communities were without electricity for various lengths of time.

**Towns of Gerry & Stockton, Chautauqua County**    05 Morning                    0 0 5 0    Rain  
 Slow moving thunderstorms poured up to 3 inches of rain. A part of the Twenty Eight Creek Road in the town of Gerry was washed out. In the town of Stockton, Route 380 was inundated.

**Cuba, Allegany County**            08 1630EST                    0 0 4 0    Wind  
 High winds toppled a huge tree and ruptured a power line. Electricity was not restored for up to 9 hours. Milking machines stopped running and dairy farmers suffered loss of several thousand pounds of milk. They complained about serious problems of their herd when milking is interrupted.

**Town of Lancaster in Erie County**        08 Evening                    0 0 3 0    Lightning  
 Lightning struck and damaged a house and the communications equipment of the town police.

**Avon and other parts of Southern Livingston and Southern Monroe Counties**    11 2000EST                    0 0 5 0    Rain  
 Thunderstorms produced more than 5 inches of rainfall. Many basements were inundated with up to 4 feet water. A few streets were covered with up to 2 feet of water.

**Hinsdale, Cattaraugus County**        12 Morning                    0 0 5 0    Rain  
 A heavy thunderstorm poured 2 1/2 inches of rain in 20 minutes. Small streams rose rapidly, some above banks. A bridge along the Fay Hollow Road was jammed with debris and caused the water to rise above the bridge. It suffered heavy erosion.

**Rochester, Monroe County**            12 0200EST                    0 0 4 0    Wind  
 High winds created waves up to 5 feet in Charlotte Pier and sank an 80-ton crane.

**Barcelona Harbor, Chautauqua County**    18                                    0 0 5 0    Wind  
 Strong winds whipped up Lake Erie. Moorings of boats snapped. The boats were slammed against the rocks.

**Niagara Falls, and other parts of Niagara County**        27 1800EST                    0 0 4 0    Rain, Wind  
 An intense thunderstorm with heavy rain flooded many basements and streets. Many power lines were severed.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1983

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>NEW YORK, Western</b>									
Ellisburg, Southern Jefferson County	28	1730EST	6	300	0	1	6	C	Tornado (F1)
	Two funnel clouds, side by side, were observed to have touched down at Southwick Beach State Park and moved east through south of Woodville and portions of Ellisburg. At the Park, a trailer home was overturned and damaged.								
	A small bridge over Sandy Creek was destroyed, leaving residents of an isolated area without access to other points.								
	At Ellisburg, 10 structures suffered minor to major damages. Ten thousand acres planted with corn were completely destroyed. Numerous trees were felled. Six horses, scared by the storm, got loose and were electrocuted by severed power lines. Thousands of electric customers were without electricity for many hours.								
Evans and other communities in Southern Erie	28	Evening			0	0	4	0	Lightning
	Lightning struck and damaged 2 homes in Evans. Power transformers were also hit and knocked off electricity to more than 2000 homes in Hamburg and neighboring communities.								
Medina, Albion, and other parts of Orleans County; Lewiston, Niagara Falls, & Lockport, Niagara County	30	0930EST			0	0	4	0	Wind, Rain
	A severe thunderstorm with high winds and heavy rains felled many trees and produced localized flooding. A few houses suffered minor damages from the wind.								
<b>31 NORTH CAROLINA</b>									
Windsor, Bertie County	9	17:20EST	2.5	80	0	0	5	?	Thunderstorm/Tornado F(1)
	A severe thunderstorm moving through Windsor produced golf ball size hail, high winds and a small tornado that touched down in the southwest part of the city. Damage to trees and powerlines was extensive, but structural damage was surprisingly light, limited to damaged roofs and broken windows. A 20,000 gallon propane tank was ruptured by a falling tree, producing a cloud of fumes which forced the evacuation of 500 homes.								
Camp Lejeune, Onslow County	9	18:05EST			1	29	0	0	Lightning
	A group of marines on maneuvers was struck by lightning after making camp. One man was killed and 29 slightly injured.								
Caldwell County	11	21:40EST			0	0	5	?	Thunderstorm
	A severe thunderstorm moved through the county accompanied by high winds and extensive lightning. Winds from the storm destroyed a building that was under construction in Granite Falls, while lightning ignited two major fires: one in Gamesville that destroyed a business worth \$40,000, and another near Kings Creek where a home suffered \$50,000 in damages.								
Lenoir, Caldwell County	21	Late PM			0	0	5	0	Thunderstorm
	Thunderstorm winds gusting to 65 mph destroyed a furniture warehouse that was under construction causing \$40,000 in damages. Lightning from the storm ignited a fire which extensively damaged a sawmill causing \$100,000 in damages.								
Gastonia, Gaston County	22	00:15EST			0	0	4	0	Thunderstorm
	An early morning thunderstorm moved through Gastonia accompanied by strong winds and vivid lightning which ignited a fire at a business causing \$16,000 in damages. Trees were toppled throughout the city causing structural damage to several homes.								
Forth Bragg, Cumberland County	23	15:00-15:15EST			0	1	4	0	Thunderstorm
	A severe thunderstorm moved through the area producing 70 mph winds that knocked down trees, powerlines, signs and a grain bin. Four helicopters and an airplane were also damaged by the strong winds. One motorist was injured when a tree fell upon a car.								
Sony Point, Alexander County	23	16:00EST			0	1	0	0	Lightning
	A woman struck by lightning while walking into her home was knocked unconscious and went into cardiac arrest. Neighbors administered CPR and revived her.								
Scotland and Robeson Counties	23	16:15-17:30EST			0	0	4	?	Thunderstorm
	A severe thunderstorm moved southeast through the two counties producing marble size hail and high winds which downed trees and powerlines southwest of Laurinburg and near Red Springs. Two homes had portions of their roofs ripped off near Gibson, and the Scotland County High School received minor damage to its gymnasium. A local Cable TV company also received \$10,000 in damages.								
Knightdale, Wake County	23	16:30EST			0	0	3	0	Thunderstorm
	Thunderstorm winds gusting to 60 mph downed numerous trees and powerlines in this community east of Raleigh. One house suffered damages after a tree landed upon its roof.								
<b>NORTH CAROLINA</b>									
Mt. Pleasant, Cabarrus	23	18:10EST	4	300	0	0	6	?	Tornado (F1)
	A tornado touched down 4 miles north-northwest of Mt. Pleasant and moved southeast, paralleling SR1006 into the city.								
Mecklenburg, Cabarrus Counties	24	01:00-04:00EST			0	0	6	?	Thunderstorm
	An early morning thunderstorm moved through the two counties accompanied by torrential rain, high winds and continuous lightning which ignited 15 fires in Charlotte causing a total of \$450,000 in damages. Lightning also triggered a fire in Mt. Pleasant which destroyed a business worth \$1,000,000. Minor street flooding was reported throughout the area after up to 3.9 inches of rain fell in a short period.								
Statewide	Entire Month				1	?	?	?	Heat Wave/Drought
	The heat wave and drought which began in July continued in earnest during August as arid conditions and record high temperatures became commonplace. Most areas across the state received less than half of their normal rainfall amounts, which when combined with the record high temperatures produced disastrous results for the State's agricultural commodities. Almost every station reached 100° during the five day period between the 19th and 23rd, which was the zenith of the heat wave. Fayetteville recorded an unprecedented 110° on the 21st, breaking the State's all-time record high temperature by one degree. One death was directly attributed to the heat as a man riding a motorcycle was overcome by heat exhaustion and crashed. Countless cases of heat exhaustion were reported across the State as one of the worst heat waves in recent years continued.								
<b>32 NORTH DAKOTA</b>									
Bismarck (Burleigh County)	02	0030CST			0	0	3	0	Lightning
	A fire, started by lightning, damaged an unoccupied house.								
Linton 12E (Emmons County)	02	0045CST			0	0	4	0	Thunderstorm Winds
	Strong thunderstorm winds tore the roof off a barn.								
Braddock (Emmons County)	02	0100CST			0	0	4	0	Thunderstorm winds
	Strong thunderstorm winds downed tree limbs, tipped over three empty railroad hopper cars, damaged a new steel building, tipped over a grain dryer and blew out two walls of a garage.								
Menoken (Burleigh County)	02	1520CST							Funnel
Park River (Walsh County)	02	1920CST							Funnel
Hoople 1S (Walsh County)	02	1935CST			0	0	0	0	Hail
	Hail one inch in diameter occurred. No damage reported.								
Park River 1W (Walsh County)	02	1940CST	Short 5-15		0	0	0	0	Tornado (F0)
	A tornado touched down briefly. No damage reported.								
Minto 4NW (Walsh County)	02	2021CST			0	0	0	0	Hail
	Golfball sized hail occurred. No damage reported.								
Cavalier 7NW (Pembina County)	02	2045CST			0	0	3	0	Thunderstorm Winds
	Strong thunderstorm winds (measured to 59mph) damaged trees.								
Thompson 3N (Grand Forks County)	02	2105CST							Funnel
Thompson 4W (Grand Forks County)	02	2115CST							Funnel
Palermo 7NE (Mountrail County)	04	1630CST			0	0	3	4	Thunderstorm Winds Hail
	Strong thunderstorm winds, accompanied by marble sized hail, blew the roof off a sheep barn; forced railroad ties into the ground; dented metal; and ruined a garden and crops.								
Kenmare (Ward County)	04	1730CST			0	0	3	5	Thunderstorm Winds Hail
	Strong thunderstorm winds damaged a pole barn. Golfball sized hail destroyed crops, broke windows and stripped paint from buildings.								
Steele 6S (Kidder County)	05	1610CST			0	0	4	0	Thunderstorm Winds
	Strong thunderstorm winds blew a garage off its foundation, and ripped a television satellite dish out of its cement base.								

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AUGUST 1963

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<b>— NORTH DAKOTA</b>									
Mandan 5W (Morton County)	07	1645CST			0	0	5	0	Thunderstorm Winds
									Strong thunderstorm winds knocked over power poles.
Cooperstown (Griggs County)	07	1715CST			0	0	0	0	Hail
									Golfball sized hail occurred. No damage reported.
Spiritwood 10N (Stutsman County)	07	1920CST							Funnel
Beulah 20NW (Mercer County)	14	1753CST							Funnel
Powers Lake (Mountrail County)	14	1800CST			0	0	0	5	Hail
									Quarter sized hail severely damaged crops.
Taylor (Stark County)	14	2030CST			0	0	0	0	Thunderstorm Winds
									Strong thunderstorm winds were measured to 75mph. No damage reported.
New Town (Mountrail County)	14	2130CST			0	0	3	0	Thunderstorm Winds
									Strong thunderstorm winds blew over two trees.
New Leipzig (Grant County)	14	2035CST			0	0	4	0	Thunderstorm Winds Hail
									Golfball sized hail was reported. Strong thunderstorm winds tipped over a grain bin and wrecked numerous trees.
New Town (Mountrail County)	14	2130CST			0	0	3	0	Thunderstorm Winds
									Strong thunderstorm winds knocked down two large trees.
Flasher (Morton County)	14	2235CST			0	0	0	0	Thunderstorm Winds
									Strong thunderstorm winds were measured to 80mph. No damage reported.
Fort Yates (Sioux County)	15	2330CST			0	0	3	0	Thunderstorm Winds
									Strong thunderstorm winds damaged trees.
Forman (Sargent County)	17	0830CST			0	0	3	0	Thunderstorm Winds
									Strong thunderstorm winds damaged a barn and trees.
Toina (Nelson County) to Grand Forks AFB (Grand Forks County)	18	1700CST-1900CST			0	1	5	3	Thunderstorm Winds Heavy Rain
									A severe thunderstorm blew over power poles and a camper; and flooded fields at Toina at 1700CST; toppled grain bins, blew over a building and pulled up pole barns at McVillage (Nelson County) at 1800CST; broke tree branches and downed power lines at Larimore (Grand Forks County) at 1833CST; demolished a trailer house and damaged four other trailers in a trailer court, and damaged a motel roof at Emerald (Grand Forks County) at 1900CST; and caused measured winds of 58mph at Grand Forks AFB. One person at Emerald received minor injuries during the storm.
Clifford (Traill County)	18	2120CST			0	0	4	0	Thunderstorm Winds
									Strong thunderstorm winds blew down one barn and moved another barn 20 feet off its foundation.
Larimore (Grand Forks County)	20	Night			0	0	2	0	Lightning
									Lightning strikes damaged trees.
Grassy Butte (McKenzie County)	22	1530CST			0	0	0	0	Hail
									Hail two inches in diameter occurred. No damage reported.
Kulm (LaMoure County)	23	Morning			0	0	3	0	Lightning
									Lightning struck a house and shorted out light fixtures and outlets.
Rugby (Pierce County)	23	1640CST			0	0	3	0	Thunderstorm Winds
									Strong thunderstorm winds knocked over a tree onto a power line.
Douglas 10N (Ward County)	24	1400CST			0	0	0	0	Hail
									Hail 1-1/2 inches in diameter occurred. No damage reported.
Garrison (McLean County)	24	1410CST			0	0	0	5	Hail
									Baseball to grapefruit sized hail severely damaged crops.
Douglas 12N (Ward County)	24	1515CST			0	0	4	4	Thunderstorm Winds Hail
									Golfball sized hail and strong thunderstorm winds shattered windows and ripped off shingles from a house, and destroyed crops.
Douglas 15 (McLean County)	24	1530CST			0	0	4	0	Hail
									Baseball sized hail drove holes into the roof of a house.
<b>— NORTH DAKOTA</b>									
McClusky (McLean County)	24	1630CST			0	0	4	0	Hail
									Grapefruit sized hail broke car windows.
Heaton 6S (Wells County)	24	1630CST			0	0	4	3	Thunderstorm Winds
									Strong thunderstorm winds blew the roof off a barn, blew down tree branches and damaged crops.
Hurdfield (Wells County)	24	1700CST			0	0	4	0	Thunderstorm Winds
									Strong thunderstorm winds severely damaged roofs on houses.
Tappen 14N (Kidder County)	24	1700CST			0	0	0	0	Hail
									Hail 1-1/2 inches in diameter occurred. No damage reported.
Sykeston 8S (Wells County)	24	1730CST			0	0	0	5	Hail
									Softball sized hail damaged crops.
Carrington (Foster County)	24	1740CST			0	0	5	5	Hail
									Baseball sized hail damaged shingles on houses and destroyed crops.
Fairfield 5S (Billings County)	24	1815CST	9.0	40	0	0	4	0	Tornado (F1)
									A tornado scattered bales of hay, destroyed an old barn, and snapped an electrical pole.
Fairfield (Billings County)	24	1830CST			0	0	0	0	Hail
									Golfball sized hail occurred. No damage reported.
Cooperstown (Griggs County)	24	1840CST			0	0	5	0	Thunderstorm Winds
									Strong thunderstorm winds knocked over numerous trees, damaged light airplanes, and damaged an airplane hangar.
Aneta (Nelson County)	24	1850CST			0	0	5	0	Thunderstorm Winds
									Strong thunderstorm winds blew over a barn.
Grand Forks AFB (Grand Forks County)	24	1925CST			0	0	0	0	Thunderstorm Winds
									Strong thunderstorm winds were measured to 64mph. No damage was reported.
Robinson (Kidder County)	24	1932CST			0	0	0	0	Hail
									Hail one inch in diameter occurred. No damage reported.
Carson 4E (Grant County)	24	1945CST	8.0	30	0	0	4	0	Tornado (F1)
									A tornado destroyed outbuildings and uprooted fences.
Robinson 10N (Kidder County)	24	1950CST	Short	5-15	0	0	0	0	Tornado (F0)
									A tornado touched down briefly. No damage reported.
New Salem 15N (Oliver County)	24	1952CST			0	0	0	0	Hail
									Golfball sized hail occurred. No damage reported.
Taylor 10N (Dunn County)	24	2015CST			0	0	0	0	Thunderstorm Winds
									Winds measured to 65mph. No damage reported.
Mayville (Traill County)	24	2025CST			0	0	0	0	Thunderstorm Winds
									Strong thunderstorm winds were measured to 74mph. No damage reported.
Buxton (Traill County)	24	2030CST			0	0	4	0	Thunderstorm Winds
									Strong thunderstorm winds damaged a hot mix plant.
Center 3E (Oliver County)	24	2033CST			0	0	0	0	Hail
									Golfball sized hail occurred. No damage reported.
Thompson (Grand Forks County)	24	2045CST			0	0	2	0	Thunderstorm Winds
									Strong thunderstorm winds knocked over trees.
Grandin (Cass County)	24	2120CST			0	0	5	0	Thunderstorm Winds
									Strong thunderstorm winds blew over a grain bin.
Kensal 5SE (Stutsman County)	24	2136CST			0	0	0	0	Hail
									Hail up to 1-3/4 inches occurred. No damage reported.
Finley (Steele County)	24	2258CST			0	0	4	0	Thunderstorm Winds
									Strong thunderstorm winds knocked down tree branches and downed power lines.

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AUGUST 1983

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<b>— NORTH DAKOTA</b>									
Valley City (Barnes County)	24	2346CST							Funnel
Jamestown (Stutsman County)	24	2356CST			0	0	3	0	Hail Golfball sized hail broke windows on a grain elevator.
Grand Forks AFB (Grand Forks County)	25	0030CST			0	0	0	0	Thunderstorm Winds Strong thunderstorm winds were measured to 58mph. No damage reported.
Benedict (McLean County)	25	1755CST			0	0	4	5	Hail Golfball to tennis ball sized hail damaged a patio roof and destroyed crops.
Garrison (McLean County)	25	1805CST							Funnel
Turtle Lake 10N (McLean County)	25	1831CST			0	0	0	0	Hail Golfball sized hail occurred. No damage reported.
McClusky 8NW (Sheridan County)	25	1907CST	Short 40		0	0	5	0	Tornado (F1) A tornado destroyed a mobile home; blew over poles and two grain bins; destroyed a quonset hut; and damaged a car.
Leeds (Benson County)	25	1915CST			0	0	0	4	Hail Baseball sized hail damaged crops.
Goodrich (Sheridan County)	25	1945CST							Funnel
Devils Lake (Ramsey County)	25	2010CST			0	0	5	0	Thunderstorm Winds Strong thunderstorm winds measured to 60mph knocked limbs off trees, damaged boats and damaged docks.
Fordville (Walsh County)	25	2015CST			0	0	0	0	Hail Golfball sized hail occurred. No damage reported.
Inkster 55W (Grand Forks County)	25	2030CST	Short 5-15		0	0	0	0	Tornado (F0) A tornado touched down briefly. No damage reported.
Grand Forks 10W (Grand Forks County)	25	2045CST	Short 5-15		0	0	0	0	Tornado (F0) A tornado touched down briefly. No damage reported.
Grand Forks (Grand Forks County)	25	2107CST			0	0	5	0	Lightning, Thunderstorm Winds Strong thunderstorm winds measured to 75mph damaged a hangar roof, overturned light planes, moved a 8727 off its chocks into a muddy field, downed trees, tore part of a roof off a house, damaged a canopy and a portion of a speedway grandstand, and destroyed a mobile home. Lightning strikes damaged electrical transformers.
Hamar 5S (Eddy County)	25	2110CST			0	0	5	0	Thunderstorm Winds Strong thunderstorm winds leveled a barn and uprooted trees.
Finley 5W (Steele County)	25	2145CST	Short 5-15		0	0	0	0	Tornado (F0) A tornado touched down briefly. No damage reported.
Williston 30NE (Williams County)	26	1130CST							Funnel
Grandin 5NW (Traill County)	27	1247CST							Funnel
Amenia (Cass County)	28	1720CST			0	0	0	0	Hail Golfball sized hail occurred. No damage reported.
Harwood 7NW (Cass County)	28	1752CST			0	0	0	0	Hail Quarter sized hail occurred. No damage reported.
Fargo (Cass County)	28	1758CST-1945CST			0	0	5	0	Hail Hail from one inch to baseball size damaged over 1000 automobiles, and damaged roofs.
Prosper (Cass County)	28	1810CST							Funnel
Mapleton 3W (Cass County)	28	1848CST							Funnel
<b>— NORTH DAKOTA</b>									
Prosper 3E (Cass County)	28	1903CST	Short 5-15		0	0	2	0	Tornado (F1) A tornado touched down briefly and tore up trees.
West Fargo 2W (Cass County)	28	1925CST							Funnel
Lidgerwood (Richland County)	28	2045CST			0	0	0	5	Hail Golfball sized hail damaged gardens, crops and windows; and dented cars.
Lidgerwood 4W (Richland County)	28	2105CST							Funnel
McLeod 3E (Richland County)	28	2210CST			0	0	3	4	Hail Golfball sized hail damaged crops and vehicles.
Ambrose 13S (Divide County)	28	2250CST			0	0	4	0	Thunderstorm Winds Strong thunderstorm winds damaged farm equipment, stripped a pole barn to its foundation, ripped off shingles, blew out windows and destroyed two granaries.
Columbus (Burke County)	28	2315CST			0	0	4	0	Thunderstorm Winds Strong thunderstorm winds blew down power lines, damaged television antennas and damaged farm equipment.
Tioga (Williams County)	28	2330CST			0	0	3	0	Thunderstorm Winds Strong thunderstorm winds wrapped a metal pump house around two oil pumpers.
Kenmare Area (Ward County)	29	0000CST			0	0	6	0	Thunderstorm Winds Strong thunderstorm winds damaged a grain elevator and flattened a large barn.
Mohall (Renville County)	29	0005CST			0	0	3	4	Thunderstorm Winds Strong thunderstorm winds damaged crops, gardens and trees, and ripped a roof off a pole barn.
Stanley (Mountrail County)	29	0012CST			0	0	4	0	Thunderstorm Winds Strong thunderstorm winds toppled large trees, tore apart metal sheds, destroyed a small pull camper, damaged a car and grandstand.
Minot (Ward County)	29	0050CST			0	0	3	0	Thunderstorm Winds Strong thunderstorm winds blew down power lines, battered gardens and downed tree branches.
Belcourt (Rolette County)	29	0130CST							Funnel
Grafton (Walsh County)	29	0400CST			0	0	3	0	Thunderstorm Winds Strong thunderstorm winds downed power lines and broke off tree limbs. One large tree limb landed on a garage and damaged the garage roof.
Horace (Cass County)	29	1345CST							Funnel
Southern Barnes County	29	1330CST-1430CST			0	0	4	5	Hail Thunderstorm Winds Golfball sized hail severely damaged crops from Litchville to Kathryn. Strong thunderstorm winds ripped the roof off a barn and broke poles.
Oakes (Dickey County)	29	1540CST			0	0	0	0	Hail Golfball sized hail occurred. No damage reported.
Wyndmere (Richland County)	29	1550CST			0	0	0	0	Hail Hail up to 3/4 inch in diameter fell. No damage reported.
Medora 10W (Golden Valley County)	31	1930CST			0	0	4	4	Hail Golfball sized hail damaged pasture land, damaged roofs of houses and stripped paint from siding.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1983

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					KILLED	INJURED	PROPERTY	CROPS		
<b>33 OHIO</b>										
Tuscarawas County	01	0315EST			0	0	4 <sup>0</sup>	C		Heavy Rain
										A thunderstorm dumped 2 to 4 inches of rain between Baltic and Sugarcreek. One report of 6 inches of rain was received.
Lawrence County	09	1434EST			0	0	4	0		High Wind and Lightning
										A severe thunderstorm did considerable damage in Ironton. Trees were downed, roofs ripped off and windows blown out.
Highland County	11	1030EST			0	0	4	0		High Wind and Lightning
										Thunderstorm winds downed trees, destroyed a barn and snapped off power poles in Hillsboro. Several lightning strikes started fires.
Adams County	11	1100EST			0	2	5 <sup>0</sup>	C		High Wind and Hail
										A thunderstorm produced damaging winds and one inch diameter hail. Trees were downed and several buildings damaged. A mobile home was severely damaged and its two occupants injured. Several tobacco fields were leveled.
Scioto County	11	1130EST			0	0	4 <sup>0</sup>	C		High Wind and Hail
										One inch diameter hail damaged crops, cars and buildings. High winds also snapped off power poles and downed trees in Portsmouth.
Galion, Crawford County	11	1230EST			0	0	4	0		High Winds
										Thunderstorm winds did roof damage and uprooted trees in a small area on the west side of Galion.
Fairfield County	21	2050EST			0	0	4	0		High Wind
										Thunderstorm winds did considerable damage in Canal Winchester and Pickerington. Roofs were damaged, windows blown out and trees downed.
Morgan County	22	1530EST			0	0	4	0		High Wind
										Thunderstorm winds destroyed a barn and blew off roofs in the Bristol area. Several trees were also uprooted.
Washington County	28	Aftn			0	0	4	0		High Wind
										Thunderstorm winds damaged farm buildings and destroyed a mobile home on Route 7 at Washington County Road 20. Some trees were also damaged and utility lines downed.
<b>34 OKLAHOMA</b>										
Farris, Atoka County	01	1525CST			0	0	?	?		Hail
										One inch hail fell.
Lane, Atoka County	01	1545CST			0	0	?	?		Hail
										3/4 to one inch hail fell.
Mcalester, Pittsburg County	01	1701CST			0	0	?	?		Wind
										Winds of 61 mph measured at Flight Service Station.
Pryor, Mayes County	01	1720CST			0	0	?	?		Wind
										Strong winds caused major damage to a barn near Pryor.
Hominy, Osage County	01	1830CST			0	0	?	?		Wind
										Strong winds downed electrical lines and uprooted several large trees.
El Reno, Canadian County	12	1445CST			0	0	?	?		Wind
										Several trees uprooted and power lines downed by strong winds.
Weatherford, Custer County	12	1550CST			0	0	?	?		Wind
										60 mph winds broke large limbs from trees and downed fences and many T.V. antennas.
Clinton, Custer County	12	1625CST			0	0	?	?		Wind
										60 to 65 mph winds broke off many tree limbs.
Cordell, Washita County	12	1630CST			0	0	?	?		Wind
										Strong winds blew large sign down, downed power lines and broke off many tree limbs.
<b>OKLAHOMA</b>										
Atoka, Atoka County	12	2215CST			0	0	?	?		Wind
										Strong winds blew roof off of a building which was on the National Register of Historic Places.
Ada, Pontotoc County	12	2215CST			0	0	?	?		Wind
										Strong winds destroyed a patio.
Durant, Bryan, County	12	2245CST			0	0	?	?		Wind
										Wind unroofed one house and set the roof on top of the house next door.
Madill, Marshall County	12	2300CST			0	0	?	?		Wind
										Strong winds broke off several utility poles and many tree limbs.
Sulphur, Murray County	12	2320CST			0	0	?	?		Wind
										70 mph winds downed power lines and many large tree limbs.
El Reno, Canadian County	20	morning			0	0	?	?		Heavy rain, Flooding
										Remains of Hurricane Alicia caused 4 to 7 inches of rain to fall within 5 hours causing major flooding just west of town.
Norman, Cleveland County	20	morning			0	0	?	?		Heavy rain, Flooding
										4 to 6 inches of rainfall occurred causing flooding of streets with water getting into several buildings at the University of Oklahoma.
Felt, Cimarron County	21	1430CST	short narrow		0	0	0	0		Tornado (F0)
										A thin rope-like tornado touched down briefly 5 miles east of the New Mexico border on highway 56 near Felt, Oklahoma.
Alva, Woods, County	22	evening			0	0	?	?		Lighting
										Lightning caused a fire which burnt 120 acres of grassland and 60 large bales of hay.
Prague, Lincoln County	28	1705CST			0	0	?	?		Wind
										Strong winds destroyed a mobile home just north of Prague.
Tahlequah, Cherokee County	29	1520CST			0	0	5	?		Hail and Wind
										Golfball size hail fell and very strong winds destroyed a storage shed and downed many trees and power lines causing \$70,000 in damages.
Adamson, Pittsburg County	29	1715CST			0	0	?	?		Wind
										High winds destroyed a mobile home.
<b>35 OREGON</b>										
Ruggs area in South Morrow County	11				0	0	?	?		Severe Thunderstorm
										Thunderstorms caused flooding and some property damage and were accompanied by wind and marble-size hail.
Rogue Valley	13				0	0	?	?		Lightning Storm
										Storm touched off fires and cut some power.
Culver area in Crook County	13	1605PST			0	0	?	?		High Winds
										Winds gusted to 50 MPH at Redmond. In some areas, wind was accompanied by lightning and precipitation. Some crop damage was reported.
Hermiston and Bend areas	24	1619PST			0	0	?	?		Lightning Storm
										Widespread power outages were reported.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1983

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					KILLED	INJURED	PROPERTY	CROPS	

36 PENNSYLVANIA, Eastern									
Blair, Centre and Bradford Counties	01	0900 to 1800 EST			0	0	4	0	Wind, Hail
<p>Thunderstorms moved across Bradford County 10 to 11 AM EDT uprooting trees or otherwise downing trees and limbs. The falling trees or limbs and lightning strikes caused many power outages. Thunderstorms hit the Tyrone area of Blair County around 5 PM EDT moved east through Warriors Mark and to State College, Centre County around 6 PM EDT. Wind gusts uprooted trees and broke off trees and limbs. The falling trees or limbs and lightning strikes caused power outages. Falling trees damaged at least one home and automobile. Marble-size hail fell in Tyrone and in State College. The University Weather Station at Penn State recorded wind gusts to 65 MPH.</p>									
Jersey Shore, Lycoming County	05	1300 EST			0	0	4	0	Lightning
<p>Lightning struck a stone church steeple causing stonework to fall to the street below. The stones caused extensive damage to an automobile parked on the street.</p>									
Pottstown Area	05	1700 to 1800 EST			0	0	3	0	Wind, Lightning
<p>Thunderstorms moving across downed trees and utility lines. Cable TV was knocked out and about 1500 customers lost power. Lightning striking a television antenna ruined a television set.</p>									
Eastern Pennsylvania	11	1300 to 1730 EST			0	24	6	0	Wind, Heavy Rain, Hail, Lightning
<p>Thunderstorms moved across the eastern part of Pennsylvania. Although heavy rain was scattered throughout, the most severe storms were over the southern half. Heavy downpours of 1 to 3 inches in some spots caused roadway flooding and some stream and basement flooding. In Lancaster County 2.9 inches fell at Blue Ball and New Holland, 2.5 inches at Marietta and Mountville and 1.6 inches in Lancaster. Stroudsburg in Monroe County had 2.1 inches of rain. Quite a few locations reported amounts over one inch. The heavy rain accumulation on the roof of an industrial building in New Holland caused it to collapse. Lightning strikes caused power outages and hit a large number of buildings. A number of fires resulted but all were put out with only minor damage, except for a garage that was destroyed in York County. In West White-land Township, Chester County, two boys were struck by lightning which hit the tree that their tree house was in. Injuries were only minor to the one boy, but the other required treatment in the intensive care unit at a hospital. Small hail was reported in the Allentown area. High wind gusts brought down many trees, tree limbs and utility lines. Wind gusts damaged buildings and blew out windows. Falling trees damaged buildings and automobiles. Twenty-one people were injured by flying debris, nineteen of them were in a supermarket when the plate glass windows blew in. One boy was seriously injured when shocked as power lines were downed. Across Eastern Pennsylvania close to 400,000 customers had power interrupted. The most severe damage occurred along a path from Wagon town, Chester County southeast through West Chester to Springfield and Upper Darby in Delaware County and to South Philadelphia. Along this path hundreds of trees were uprooted, broken off or had limbs off. Trees fell on buildings and automobiles. Wind gusts tore roofs or portions of roofs off houses and other buildings. The most severe damage occurred in West Chester. Here a large number of trees were uprooted or broken off. Some of them were huge oak trees about 4 feet in diameter and 80 feet or so tall. Trees were down and blocking streets in almost every block on the south and west part of town. Many buildings were damaged by falling trees. Wind gusts blew in windows and ripped off roofs or portions of roofs and upper floors of buildings. A few buildings were collapsed. A total of thirty-nine buildings were damaged. Quite a few automobiles were damaged by falling trees and other debris.</p>									

— PENNSYLVANIA, Eastern									
Allentown-Bethlehem-Easton Airport	11	1515 to 1600 EST	11	150	0	2+	7	0	Tornado (F1)
<p>There was so much damage, debris on streets and downed power lines that the mayor declared a state of emergency to keep people off the street to facilitate clean up operations. Although the storm was called a tornado by many people, a National Weather Service survey of the damage did not reveal any indications of a tornado. The damage was straight line and quite likely down-burst activity. The storm hit Wagon town about 5 PM EDT, West Chester about 5:30 PM EDT, and South Philadelphia about 6 PM EDT.</p> <p>The tornado was first spotted near Egypt, Lehigh County where mainly tree damage occurred. It next touched down at the airport where 20 aircraft and 15 hangers were destroyed or damaged. Automobiles were damaged in the parking lot. Many structures had roofs blown off in a nearby industrial park. As the tornado continued south-east, it touched down a few more times. Other damage included: part of roof off restaurant, house under construction destroyed, several barns destroyed, may roofs off in housing development, windows blown in at supermarket, many trees and wires down, many automobiles damaged by falling trees and flying debris. One person was injured in a mobile home overturned by the wind and one in an automobile hit by a tree. There were an unspecified number of minor injuries from flying glass in the supermarket and from children close to a power line as it fell. The tornado last touched down in the village of Freemansburg. Hail to one-half inch fell at the airport. FPP132</p>									
Hellertown, Northampton County	11	1545 EST	2	30	0	0	4	0	Tornado (F1)
<p>Another tornado, south of the first, touched down on top of the ridge in south Bethlehem and in a park near Hellertown. On top of the ridge trees were downed and houses lost roofs or parts of roofs. In the park considerable tree damage occurred along a stream. Hail to golfball size covered some streets in Hellertown. FPP111</p>									
Tobyhanna, Monroe County	11	1530 EST	?	?	0	0	?	0	Tornado (FO)
<p>A tornado was observed just north of the Tobyhanna Army Depot and reported a few hours later. Further investigation of the storm could not be undertaken, so actual damage is unknown.</p>									
Bedminster Township and Perkasio, Bucks County	11	1630 to 1700 EST	?	?	0	0	4	0	Tornado (FO)
<p>A tornado was sighted and reported shortly after it occurred, but further investigation could not be undertaken. Newspaper accounts indicate considerable tree and utility line damage.</p>									
Bucks and Montgomery Counties	29	1630 to 1730 EST			0	0	5	0	Wind, Lightning
<p>Thunderstorms moved south-southwest from Bedminster Township, Bucks County, to Upper Gwynedd Township, Montgomery County. Wind gusts and lightning strikes brought down many trees, utility lines and poles, some of the trees and poles fell on buildings and automobiles.</p>									
36 PENNSYLVANIA, Western									
Warren County	05	erly mmg			0	1	5	?	Heavy rain and lightning
<p>Heavy thunderstorms washed out a bridge near Garland on Pennsylvania Route 27. Over four inches of rain fell in nearby Youngsville over a 12 hour period. Countywide there was other extensive damage to secondary roads and bridges. One man was struck in his ankle by lightning while standing in the doorway to his house.</p>									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

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					KILLED	INJURED	PROPERTY	CROPS	
<b>37 RHODE ISLAND</b>									
Central & Northern Portion	04	Late Morning			0	0	?	0	Lightning, Heavy Rain
A heavy thunderstorm moved through the area knocking out power as lightning struck several buildings and homes. A barn was destroyed by lightning caused fire in Smithfield. About 3,000 electric customers lost power for a time in Foster, Scituate, Gloucester, Smithfield and Johnston. Local street flooding occurred.									
Coventry, Greenwich, & S. Kingstown	28	0500-0700EST			0	0	?	0	Lightning
A bolt of lightning struck a home in Greenwich blowing out some windows and damaging ceilings and woodwork, etc. Several thousand homes lost electrical power briefly throughout the area.									
<b>38 SOUTH CAROLINA</b>									
Dazeil, Sumter County	1	1700EST			0	0	4	0	Lightning, Wind
High winds during a thunderstorm disrupted utilities. Fire started by lightning burned a large home.									
Clinton, Laurens County	4	1950 EST			0	0	3	0	Lightning
Trees and power lines down. Intense lightning disrupted utilities.									
Langley, Aiken County	6	1720 EST			0	0	3	0	Lightning, wind,
Numerous trees felled, roof to building damaged, small hail caused minor damage.									
7 miles NNE of Bishopville, Lee County	5	1500 EST			0	0	4	2	Wind
Winds during a thunderstorm overturned 25 cotton wagons, damaged several farm buildings and barn.									
Eastern Camden, Kershaw County	6	1800 EST			0	0	3	2	Wind
Thunderstorm winds uprooted trees, disrupted electrical service, destroyed or damaged several small buildings.									
Belton, Anderson County	8	1400 EST			0	0	4	0	Lightning
Lightning caused considerable damage to utilities and damaged several homes.									
Hilton Head, Beaufort County	9	1400 EST			0	1	3	0	Lightning
Lightning seriously injured a person welding in the rear of a truck. Heart stopped but was revived. A radio station was knocked off the air by lightning.									
Florence, Florence County	9	2000 EST			0	0	3	0	Wind, lightning
Wind and lightning during a thunderstorm caused power outages, felled several trees causing mostly minor damage.									
Clinton and Laurens, Laurens County	12	2000 EST			0	0	3	0	Lightning
Heavy lightning accompanying a thunderstorm started several fires in Clinton and Laurens.									
Rowesville, Orangeburg County	14	1400 EST			0	0	3	0	Dust Devil
A dust devil destroyed a large "porch type" awning.									
Belton, Anderson County	18	P.M.			0	0	4	0	Lightning
Fire started by lightning destroyed one home and heavily damaged a mobile home.									
Northern half of South Carolina	21	P.M.			0	1	4	3	Lightning, wind
Scattered thunderstorms developed over northern South Carolina during the late afternoon. Damage was reported at: <u>Pinewood and Hillcrest</u> areas of Spartanburg, Spartanburg County, 1600 EST. Trees felled, damaging power and phone lines. Considerable lightning damage. <u>Londrum, Campobello, Inman</u> , Spartanburg County, 1600 EST. Thunderstorm winds and lightning caused numerous power outages. <u>3 miles north of Winnsboro</u> , Fairfield County, 1500 EST. Thunderstorm downdraft over a one mile path caused roof and tree damage. <u>3 miles south of Rockhill</u> , York County, 1700 EST. A mobile home was overturned by the wind. Also, considerable minor damage to trees in area. <u>Gaffney</u> , York County, 1700 EST. Winds damaged trees, sheds and awnings. One person injured by lightning. <u>Chester</u> , Chester County, 1700 EST. Winds broke power poles, plate glass windows and felled a number of trees. <u>Kershaw</u> , Kershaw County, 1700 EST. Winds broke trees and knocked down power lines. Lightning caused considerable damage.									
<b>— SOUTH CAROLINA</b>									
North and Central South Carolina	23	P.M.			0	0	5	0	Wind, lightning
Scattered thunderstorms during late afternoon caused damage at several locations, including: <u>Lancaster, Kershaw, McColl, and Columbia</u> . Mostly wind damage to trees, roofs, and utilities. Lightning set several homes on fire. Small store destroyed by wind at Columbia.									
Newberry, Newberry County	24	1920 EST			0	0	4	0	Flash Flooding, wind, lightning
Heavy rains caused flash flooding on Scotts Creek requiring evacuation of a few homes. Winds and lightning caused power outages.									
Lake Murray Area, Lexington County	31	1857 EST			0	0	3	0	Hail, wind, lightning
Hail up to 3/4 inch in diameter, accompanied by wind and lightning caused considerable damage.									
Statewide					3	UNK.	5	8	Heat, drought
The summer through August was the hottest and driest since 1954. Crop damage around 400 million dollars. Considerable number of trees killed in drier areas. Fourteen deaths attributed to heat along with a number of people hospitalized. Heat wave peaked on August 21st when 110° recorded at Cheraw, S.C. Heat Deaths by County: Chesterfield - 4 Florence - 3 Williamsburg - 2 Orangeburg - 2 Richland - 1 Pickens - 1 Anderson - 1									
<b>39 SOUTH DAKOTA</b>									
Gregory, Charles Mix and Bon Homme Counties	01	Early Morning	-	-	0	0	?	?	Rain, Hail
Heavy rains of one to two inches fell, causing considerable damage to county roads and bridges between Burke and Herrick (Gregory County). Hail of unknown diameter accompanied the rains, flattening small grain and crops in Gregory County.									
Corson County	01	Evening	-	-	0	0	0	2	Lightning
Lightning set afire several hay bales, twenty-six miles south of Morristown and south of McIntosh.									
Butte County	01	Evening	-	-	0	0	0	2	Lightning
A haystack and several acres of grassland were burned in three separate lightning-related fires in the Hoover-Castlerock area.									
Dewey County	02	Early Morning	-	-	0	0	0	3	Lightning
Lightning destroyed forty-four haybales near Isabel.									
Corson County	02	Evening	-	-	0	0	0	3	Lightning
Lightning burned over 100 bales of hay just north of Trail City.									
Lawrence & Pennington Counties	04	1100-1300MST	-	-	0	0	?	?	Hail
Hail, one and three-quarters inches in diameter, fell in the west central Black Hills around Whitewood (Lawrence County) and Rochford (Pennington County). Several cars were dented, windows broken and gardens flattened.									
Fall River County	04	Evening	-	-	0	0	4	0	Lightning
Lightning struck and destroyed a large barn north of Delrichs.									
Pennington County	15	0000-0200MST	-	-	0	0	0	0	Wind, Lightning
Strong winds and lightning combined to produce scattered power outages in Rapid City for up to two hours. Gusts to 57 mph were recorded at Johnson Siding.									
Walworth County	15	0100CST	-	-	0	0	4	0	Lightning
Lightning struck and ignited a church steeple in Akaska. The roof was damaged and the bell was a total loss.									
Corson County	15	Early Morning	-	-	0	0	3	0	Lightning
Three cattle were struck and killed by lightning just east of Bullhead.									

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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

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Dewey County	15	0600MST	-	-	0	0	0	3	Lightning
Twelve tons of hay were destroyed by lightning just north of Timber Lake.									
Corson County	15	1230MST	-	-	0	0	0	0	Lightning
Grassland, ten miles north of Firesteel, was set ablaze as a result of lightning.									
Dewey County	16	Early Morning	-	-	0	0	0	3	Lightning
Lightning burned twenty to thirty hay bales north of Isabel, hay stacks south of Isabel and thirty tons of hay near White Horse.									
Faulk County	16	0530CST	-	-	0	0	0	2	Lightning
Thunderstorms accompanied by vivid lightning produced scattered temporary outages. Several bales of hay were burned from lightning strikes.									
Marshall County	16	0745-0830CST	-	-	0	0	0	0	Thunderstorm
Heavy thunderstorms rolled through Britton, creating a 45 minute power outage.									
Grant and Roberts Counties	16	Morning	-	-	0	0	3	2	Lightning
Thunderstorms, accompanied by lightning, knocked out power and set fires near Corona (Roberts County) and Big Stone City (Grant County). Lightning damage extended north and east through Grant and into Roberts County. Several hay bales were struck by lightning one mile southwest of Corona.									
Pennington County	17	1422MST	short narrow		0	0	3	0	Tornado (F1)
A tornado seventeen miles north of Wall moved a camper and boat several yards and a shed was lifted from its foundation. Several tree limbs were also broken off.									
Butte County	17	1515MST	-	-	0	0	0	2	Lightning
Lightning burned six tons of hay east of Newell and thirty acres of pastureland near Belle Fourche.									
Fall River County	17	1530MST	-	-	0	0	0	2	Lightning
Lightning produced two small prairiegrass fires near Oelrichs.									
Fall River County	17	1715MST	short narrow		0	0	4	0	Tornado (F2)
A tornado, five miles east of Oelrichs, blew the roofs from a porch shed, grain bin and a barn. A swing set was blown over and the south wall of a cement-block shed was damaged. One mobile home was overturned and another hurled through a fence. A pickup truck was also moved.									
Buffalo and Hand Counties	18	Early Morning	-	-	0	0	4	2	Lightning
Lightning struck a barn in Gann Valley (Buffalo County), totally destroying it along with ten haystacks. In Polo, (Hand County) several haystacks were struck by lightning and burned.									
Fall River County	18	Afternoon	-	-	0	0	0	3	Lightning
Two acres of grassland were burned eight miles southwest of Hot Springs.									
Lyman, Hyde, Faulk, and Brown Counties	18-19	2235-0630CST	-	-	0	0	5	0	High Winds Lightning
High winds up to 80 mph caused extensive damage to trees, structures and cars. In Presho, (Lyman County), many vehicles lost windows and several homes lost roofs. Hay bales were scattered, metal siding was ripped from outbuildings, and a ballpark lost three large fence sections. A pole barn had its sides pushed out, causing the roof to fall in. A large sign was downed onto a pickup, denting the truck and heavily damaging the sign. Elsewhere, in Lyman and Hyde Counties, outbuildings, trees, shingles and power lines were downed and several windows broken. Gusts up to 75 mph were recorded at Ordway (Brown County), ten miles north northeast of Aberdeen, which severely damaged a mobile home. Aberdeen Airport and city also received their share of damage. Two hangars at the Airport received extensive damage, with roofs and doors torn off. Two planes were tipped onto their noses, with a wheel broken off one of them. Another plane's wing was twisted 180 degrees while a fourth plane had its tail caught in the rafters of one of the hangars. In the city of Aberdeen windows were broken, several roofs torn off, a wall fell, several boats were tossed about, and wires and limbs downed, with numerous vehicles suffering minor damage from the falling limbs. Greater than fifty percent of Aberdeen was without power for a half hour, with some parts of the city with out power for up to fourteen hours. In Putney, (Brown County) lightning caused a housefire, damaging the roof.									

Meade County	22	0000CST	-	-	0	0	4	0	Lightning
Just east of Sturgis, lightning destroyed a house.									
Minnehaha County	26	2230CST	-	-	0	0	3	0	High Winds
High winds tore off the roof of a trailer home north of Hartford.									
Corson County	26	2230-2340MST	-	-	0	0	?	?	Hail, Rains
Heavy rains up to four and one-half inches in Mahto flooded basements and produced such forceful flash flooding that it blasted under an asphalt parking lot, breaking it into huge chunks. Up to three inch diameter hail accompanied the rains, heavily damaging roofs and breaking numerous windows and windshields. In Little Eagle, three-fourths inch diameter hail fell.									
Corson, McPherson & Walworth Counties	27	0000-0200CST	-	-	0	0	5	4	Hail, High Winds
High winds tore through Glenham and Wakpala, destroying several structures and damaging crops. The worst damage occurred in Glenham (Walworth County) where two mobile homes were destroyed, the roof of a school torn off, and trees strewn all over town. The winds lifted one mobile home from its foundation, dropping it twenty yards away and tearing off the roof. Debris was found up to one-half a mile away. Another mobile home was blown 45 feet off its foundation into a small shed, demolishing the shed, with only minor damage to the trailer. A tall TV antenna was blown over and a boat was blown off its trailer. In Wakpala (Corson County) a mobile home was blown off its foundation and destroyed. Some buildings were damaged just east of Selby and in Java, (Walworth County) from hail of unknown diameter. The hail severely damaged the millet crop in Java and considerable cropland in Mahto (Corson County). The combination of wind and hail killed numerous birds. Just west of Eureka (McPherson County), three inches of hail of unknown diameter was on the ground.									
Edmunds County	27	0100CST	-	-	0	0	?	?	High Winds, Hail
High winds tore through the Bowdle area, downing lines and limbs, producing a county-wide power outage for one hour. Numerous roofs were damaged, a chimney was torn off, a private plane was severely damaged and a metal roof was broken up and scattered several yards away. An elevator had its windows broken and roof torn off. Several elevators had legs ripped off. Sunflower crops had up to 50% loss. Winds overturned campers, boats and farm equipment. Hail up to two and three-quarters inches in diameter accompanied the wind.									
Moody County	27	Early Morning	-	-	0	0	0	4	High Winds
Strong winds considerably damaged cornfields, especially in north-western portions. Branches were downed, causing an outage in Flandreau.									
Grant County	27	0930CST	-	-	0	0	0	4	Lightning
Lightning set afire 229 bales of hay just southwest of Revillo.									
Roberts County	28	2220CST	-	-	0	0	0	0	Funnel Clouds
Several funnel clouds were sighted three miles northeast of Rosholm.									
Marshall County	29	1530-1830CST	-	-	0	0	?	?	Funnel Clouds High Wind, Hail
Funnel clouds were reported just east of Lake City, just north and in Langford and southwest and southeast of Veblen. In Veblen, a pole barn was blown over and shingles torn off. A coal shed was destroyed, a semi trailer was blown over, and two grain augers were smashed. Several empty one ton tanks were deposited at various sites in town by strong winds, damaging a truck. Metal siding was ripped from outbuildings, a shed was ripped apart and another shed was moved 40 feet, resulting in minor damage. The winds produced scattered power outages, up to two hours in some areas. Hail up to one and three-quarters inches in diameter fell near Veblen.									
Brown County	29	1600-1645CST	-	-	0	0	?	?	Hail
Hail up to one and three-quarters inches in diameter fell four miles northeast of Hecla and in Frederick.									
Faulk County	29	1700-1900CST	-	-	0	0	?	?	Hail, Wind
Hail, two and three-quarters inches in diameter, stripped corn to the ground southeast of Seneca. Trees were bared, windows broken, and over 320 acres of corn were lost. The hail lasted nearly two hour in a three to four mile area, severely damaging crops, pastureland and trees. At the center of the hailstorm, windows were gone on the southside of homes and outbuildings and geese were killed. In one home, curtains were shredded, and the entire upper floor was devastated from broken glass and rain. Outside trim paint was peeled off from hail. Hail was as deep as eight inches in some areas. Strong winds ripped off outbuilding doors, several grain bins were twisted, and cattle troughs were moved several hundred feet. North and east of Cresbard, 150 acres of millet were destroyed and another 50 acres flattened. Sunflowers were damaged, corn crops levelled and awnings shredded.									



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1983

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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									
Grant County	29	1725-1800CST	-	-	0	0	4	0	High Winds Funnel Cloud
Six miles northeast of Milbank, a funnel was sighted. Just north of Milbank, a barn was lifted up and dropped, killing fifteen cattle underneath. A garage and barn in Milbank was destroyed and a roof torn off. Numerous branches and power lines were downed and cable TV service interrupted.									
Hamlin & Kingsbury Counties	29	1850-1920CST	-	-	0	0	3	0	High Winds
Winds up to 80 mph from four miles north of Castlewood (Hamlin County) and seventeen miles eastward swept dust up to 200 feet high, reducing visibility to around fifteen feet. Doors were blown off outbuildings and power lines downed. Seven miles southwest of Lake Norden (Kingsbury County), winds blew fish out of water onto land.									
Moody County	29	Evening	-	-	0	0	3	0	Lightning
Lightning struck a steeple, shattering some bricks and knocking out the intercom system and chimes.									
Brookings County	29	Evening	-	-	0	0	3	0	High Winds
In Volga, a tree fell on a home, damaging it. Branches were downed and a power outage to 75% of Volga occurred for a short period of time when a transformer was damaged.									
Hand County	29	Evening	-	-	0	0	0	3	Lightning
A lightning related grass fire nine miles north of Miller destroyed ten to fifteen acres and several hay stacks.									
Butte County	31	1345MST	-	-	0	0	?	?	Hail
Hail, one and three-quarters inches in diameter, fell in Belle Fourche.									

— TENNESSEE									
Bristol, Johnson County	11	1800CST	-	-	5	?	?	?	High wind
High winds did considerable damage to the Bristol area on both sides of the stateline as thunderstorms moved through the area. Between 20 and 30 businesses, mostly along State Street, were damaged by the storm. The damage varied from siding blown off to nearly complete roof removal. A large amount of damage was caused by debris from major construction project underway in downtown Bristol. Signs were downed and power was disrupted. Flooding was also reported along State Street. Winds at the Tri-Cities airport were recorded to 46 miles an hour at 7:30 p. EDT by the National Weather Service.									
Aloha, Hamblen County	11	1815CST	-	-	4				Lightning, wind
Lightning struck a barn between the Alpha Elementary and Alpha Primary Schools destroying the building and most of the contents including a pickup truck. Power outages were common as lightning struck several substations. High winds downed some trees and broke tree limbs in scattered areas throughout the county.									
One mile south of Rogersville, Hawkins County	11	1815CST	-	-	4				Wind
Winds overturned a couple of house trailers on Phorps Chapel Road about one mile south of Rogersville along Highway 66. Wind also disrupted power and telephone service to scattered sections of the county.									
Greene County	11	1817CST	-	-	1	5	?	?	Wind, hail
High winds did scattered damage over much of Greene County, but the heaviest damage was concentrated in the Romeo-Mt. Carmel area in the northwest part of the county. Hail reported with the storm also did some damage to crops, especially tobacco, but hail size was unknown. In the Romeo area, one man was injured slightly by flying debris when the winds hit his farm. Damage was done to several barns, a silo, several garages, at least one mobile home, and several cars.									
Alcoa, Blount County	11	1900CST	-	-	?	?	?	?	Heavy rains
The National Weather Service Office at McChes Tyson Airport recorded 2.78 inches of rain in one hour between 9 and 10 p. EDT. The heavy rainfall caused flooding along US 129 with water getting into several businesses along the road.									
Greenville, Greene County	11	1915CST	-	-	4				Lightning
Lightning struck a home in Greenville starting a fire which caused considerable damage to the rafters and master bedroom.									
Friendsville, Blount County	11	2000CST	-	-	?				Lightning
Lightning struck an outbuilding used as a shed and garage causing a fire. Neighbors reported electric light bulbs were blown from their sockets when the lightning struck.									
Tims Ford State Park, Franklin County	11	2100CST	-	-	3				Lightning
Lightning struck the recreation pavilion at Tims Ford State Park causing a fire. Lightning made a direct hit on the skylight portion of the building.									
Alcoa, Blount County	11	2103CST	-	-	?	?	?	?	High wind
The National Weather Service Office at McChes Tyson Airport recorded winds with a thunderstorm gusting to 56 miles an hour at 11:03 p. EDT. Electricity was reported knocked out in several sections of Blount County, and one small plane at the airport was overturned by the wind.									
Statewide	20-24				3				Heat
Three people died from heat related causes as daily temperatures soared to over 100 degrees in many places. The deaths included a 31-year old man in Memphis (Shelby County), a 46-year old man in Chattanooga (Hamilton County), and a 61-year old woman in Knoxville (Knox County). Many school systems across the state either let schools out early in the day or delayed the opening of schools. TVA officials reported a record power usage on the 22nd.									
Greenville, Greene County	22	1500CST	-	-	1				Lightning
Lightning struck nearby as a man was getting out of his truck to go into work. The force of the strike knocked him down causing injury. He was treated and released at the hospital emergency room.									
Fayetteville, Lincoln County	22	1800CST	-	-	1				Lightning
A man was struck by lightning while he was standing in his yard talking to a neighbor. The man was in good condition at the regional hospital; however, he reported being sore all over.									
Falls, Bledsoe County	22	2125CST	?	?	0	0	?	?	Tornado (F0)
A tornado was reported about 12 miles southwest of Pikeville. Damage was reported to trees and to windows in some houses by the Bledsoe County Sheriff's Office.									
7 miles southwest of Greenville, Greene County	22	2145CST	-	-	4				Lightning
Lightning was considered the cause of a fire which destroyed a barn and all of its contents including hay bales and farm machinery. The barn was located on Allen's Bridge Road about 7 miles southwest of Greenville.									
Sunnyside Community, Greene County	22	2200CST	-	-	5				High wind
High wind caused extensive property damage to a number of farm and storage buildings in the Sunnyside Community about 3 miles south of Greenville. A wood and metal storage building at Cook Lumber Company was destroyed as were at least three barns, most fairly substantial buildings. Power was knocked out due to tree limbs falling on lines.									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1983

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					KILLED	INJURED	PROPERTY	CROPS		
<b>— TENNESSEE</b>										
Bredley County	23	1405CST				4			Lightning	
At least three fires caused by lightning were reported in Bradley County between 4:05 p. EDT and 5:42 p. EDT. A barn on No Pone Valley Road was destroyed, and two residences sustained damage. Pee-size hail was reported with the thunderstorm in Cleveland.										
Nashville, Davidson County	23	1800CST				5			High wind	
A thunderstorm with wind gusts to 60 miles an hour caused considerable property damage in the airport area. Three small planes were overturned, three T-hangers where small airplanes are stored were damaged, a roof was blown off a small utility building, and a couple of jetways in the terminal were damaged. Power lines were knocked out by the wind leaving about 12,000 Nashvillians without power for up to five hours. The Nashville Weather Service Office recorded a wind gust to 60 miles an hour at 7:00 p. CDT.										
Bethany, Warren County	24	Afternoon				3			Wind	
High winds which accompanied a thunderstorm did considerable roof damage to the Red Dog Saloon on Highway 70 in the Bethany area. Some other minor building damage was reported, and a number of trees were uprooted. Power was also disrupted.										
Smith County	24	1525CST			?	?			Hail	
The Smith County Sheriff's Department reported one inch hail with a thunderstorm.										
Cookeville, Putnam County	24	1600CST				4			Lightning, wind	
Cookeville fireman worked to extinguish a fire at a house believed to be started in a fuse panel after a lightning strike. A second house fire in the county also caused by lightning did minor damage. Wind with the thunderstorm also toppled some trees and broke tree limbs. Two buildings on the south side of Cookeville were damaged by the wind.										
Northern Knox County	27	1855CST				?			Lightning	
Lightning started a house fire in northern Knox County.										
Maryville, Blount County	27	1935CST				?			Wind	
Wind with a thunderstorm knocked down a wall to a building under construction at the Montvale Elementary School. The cement block walls had not been tied together by a roof. Winds at the National Weather Service Office at McGhee Tyson Airport gusted to 44 miles an hour.										
Morristown, Hamblen County	27	2200CST				2			Lightning	
Two people, a 50-year old woman and a 12-year old boy, died from smoke inhalation after lightning struck their home, starting a fire. The lightning apparently struck the opposite end of the house starting a fire while the victims were sleeping. Smoke spread rapidly through the house, and firemen found them after the fire had been put out.										
Montgomery County	28	1720CST				3	?		Wind, hail	
A thunderstorm moving southeast at 25 miles an hour produced 3/4 inch hail on the Tennessee side of Ft. Campbell Base. Winds were also reported gusting to around 50 miles an hour. In Clarksville, the thunderstorm left 1.41 inches of rain within about an hour. Some trees were damaged or toppled by the winds. A large tent being erected for the county fair was blown down.										
Murfreesboro, Rutherford County	28	1740CST				4			Lightning	
Lightning struck the attic of a home causing a fire which took firemen more than an hour to extinguish. The attic sustained heavy damage.										
Ashland City, Cheatham County	28	1820CST				5			Wind	
Wind ripped the roofs off the Midway Supply Company building and Farley's Berbecue. The wind also knocked down trees on the courthouse lawn.										
Lebanon, Wilson County	28	1850CST				3			Lightning	
Lightning struck a house causing a fire in one bedroom. The fire spread to another room in the house before it was extinguished.										
Lebanon, Wilson County	28	2203CST				2			Lightning	
Lightning struck a home causing a fire which was contained to the attic.										
Murfreesboro, Rutherford County	29	0341CST				4			Lightning	
Fire which began in the attic of an apartment was apparently caused by lightning several hours earlier. The fire smoldered for several hours before breaking out in earnest.										
Knoxville, Knox County	31	Evening				1	3		Lightning	
Lightning struck a tree on Blows Ferry Road. The tree crashed down just as a car was passing. A large limb from the tree struck the car in the area of the front windshield and pinning the driver in the car for nearly an hour. The driver received head injuries from the incident.										
<b>41 TEXAS, Northern</b>										
Tarrant County Dallas County	8	Late PM				0	0	4	0	Heavy rains
Several nearly stationary thunderstorms developed in the area during the evening. The heaviest concentration was in the Arlington area where 3 to 4 inches of rain fell in a few hours. The resulting runoff produced some local flooding, particularly on Rusk Creek. There, a car was washed away when the two occupants attempted to cross a flooded bridge, with both escaping injury.										
Collin County Grayson County	11 12	2255CST 0045CST				0	0	4	0	Winds
Intense thunderstorms moved through the two counties inflicting scattered reports of wind damage. At 2255CST, the Corps of Engineers at Denison Dam reported 90 MPH winds. Several barns and out-buildings sustained damage in the area. Television station KXII in Sherman recorded gusts of 63 MPH at 2302CST, with a peak gust of 95 MPH between 2345 and 2400CST.										
North Texas	18- 19	Aftn. Aftn.				2	1	6	?	High winds, Heavy rains
Navarro County	18	1400CST	3	Narrow	0	0	6	0	0	Tornado, F2
The remnants of Hurricane Alicia moved into North Texas during the afternoon of the 18th, accompanied by high winds and heavy rains that left 2 dead and at least one person injured. Several million dollars damage was done, mostly from high winds and one tornado, before rain swollen creeks subsided from general rains of 2 to 3 inches with a maximum near 7-1/2 inches at Mexia.										
At 1400CST on the 18th, a tornado touched down in Corsicana, damaging a church, a horse arena, and several buildings and overturned two mobile homes. As it continued a southward trek across the western section of the city, it lifted several homes from their foundations, tore the roof off a house and a garage from another. Numerous buildings sustained damage from flying debris along the nearly three mile path before the tornado lifted into the clouds. No deaths or injuries occurred during the episode which lasted about five minutes.										
At 1500CST in Panola County, high winds damaged several roofs, downed trees and powerlines and destroyed several out-buildings. This was typical of reports across North Texas during the afternoon and evening as the disturbance moved north across the area.										
The first death occurred at 1520CST in Dallas as a band of intense thunderstorms moved into the area. High winds tore down a sign spanning a freeway, and threw it into the cabs of two 18-wheeler trucks. The driver of one truck was killed and the other critically injured. The debris from the accident kept the freeway closed for three hours as crews were hampered by the weather during the cleanup operation.										
High winds continued to pelt the area throughout the night as bands of thunderstorms moved through. At 1800CST, the roof of a gymnasium in Garland collapsed with the 30 children inside escaping injury. Winds clocked at 64 MPH moved through Sherman at this time, with winds estimated at 80 to 100 MPH damaging buildings and downing some condominiums under construction in the Dallas area.										
Winds of 50 to 60 MPH downed trees and powerlines in Grapevine and Keller at 1715CST and even as late as 2250CST, high winds were reported in Hunt County.										
General rainfall of 2 to 3 inches was confined to the eastern 2/3s of North Texas, with the largest amounts being reported in Limestone County. Mexia reported 7.48 inches, with Lake Mexia receiving 6.2" and Groesbeck 6.1".										
The heavy rains and swollen streams contributed toward the second death. A ten year old boy playing in a drainage ditch in north-east Dallas was washed away by the fast-moving water at 0800CST on the 19th. His body was found at 1440CST about one mile downstream.										

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1983

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## 41 TEXAS, Southern

Jefferson County	4	1040CST			0	0	0	0	Funnel
		A funnel was visible for about 10 minutes near Port Neches.							
Chambers County	4	1300CST			0	0	0	0	Funnel
		A funnel was sighted briefly near Anahuac.							
Galveston County	4	1510CST			0	0	0	0	Funnels
		A series of funnels were sighted in the Galveston ship channel.							
Harris County	4	1515CST			0	0	0	0	Waterspout
		A brief waterspout was seen in Galveston Bay near Baytown.							
Victoria County	4	1700CST			0	0	?	?	Tstm winds
		Strong winds produced by a severe thunderstorm moving northward through Victoria County uprooted trees and caused damage to buildings in the city of Victoria. A roof was damaged at a golf course and tree limbs and small signs were knocked down.							
Galveston County	7	0730CST			0	0	0	0	Funnels
		Small funnels were seen near Dickinson, San Leon and Texas City.							
Medina County	8	0530CST			0	0	?	?	Flash Flooding
		A flash flood developed rapidly along Francisco Creek in the wake of 4 to 5-inch rains. The water rose rapidly over low water crossings along the Creek from just west of Devine through the southern portion of Medina County.							
		A motorist attempting to go through a low water crossing was washed off the road by the water. He recalled that the water struck the side of the car with tremendous force, lifting it up and turning it around. Unable to get the left door open, the man was able fortunately to open the right door, lean out and pull himself up to the bank and climbed a tree. When he returned to the creek to find the auto, it was completely submerged and not visible. By 1100CST the car was found.							
Travis County	8	1255CST			0	0	?	?	Flash Flooding
		Heavy rainfall over the Travis County area between the hours of 1100CST and 1200CST produced considerable flash flooding within the Austin metropolitan area. General 1 to 2-inch rains were reported over Travis County with nearly 4 inches recorded in South Austin. Several homes had to be evacuated on the east side of Austin because of high water and several vehicles were stranded on U.S. 290 in northern Austin County. Only minor flooding was reported in Williamson and Hays Counties.							
Comal, Guadalupe Counties	8	1305CST			0	0	?	?	Flash Flooding
		Over 2 inches of rain fell from 1230CST to 1300CST in central Comal County. Considerable street flooding was reported in New Braunfels.							
Harris County	9	1515CST			0	0	0	0	Funnel
		A funnel was observed in western Harris County near S.H. 6 and FM 1960.							
Victoria County	10	1045CST			0	0	0	0	Funnel
		A funnel was observed very briefly near Inez.							
Harris, Montgomery Counties	11	1050CST			0	0	?	?	Flooding
		General 2-inch rains with isolated 4 inch amounts stalled cars in low areas across much of Harris and Montgomery Counties. The flooding was brief, ending near 1200CST.							
Galveston, Chambers Counties	11	1130CST			0	0	?	?	Flooding
		Flooding was reported in Dickinson with some streets 2 to 4 feet deep as up to 5 inches of rain fell in parts of the city. Although the flooding was not a serious threat to life, it was widespread over the two county area and continued through 1300CST. No damage was indicated.							
Wilson County	12	2000CST			0	1	4	?	Tstm winds
		Strong winds from a thunderstorm overturned a trailer about 4 miles east of Pandora, in extreme eastern Wilson County. The trailer was badly damaged and the woman living in it suffered minor injuries. No further damage was reported.							
Jefferson County	14	1310CST			0	0	0	0	Funnel
		A funnel was observed by a ham operator 10 miles west of Beaumont.							
Harris County	15	1615CST			0	0	0	0	Funnels
		A series of small funnels were observed in the Alvin area.							

## TEXAS, Southern

Southeast Texas	17	2100CST-			13	1800	9	9	Hurricane Alicia
	18	2000CST							
		Hurricane Alicia struck the Texas Gulf Coast early on the morning of August 18th. The eye of Alicia made landfall near San Luis Pass on the extreme southwest portion of Galveston Island near 0040CST. It is estimated that damages in Alicia will total more than 3 billion dollars making Alicia one of the costliest hurricanes in the history of the United States. Obviously this cost is due to the track of Alicia, which took it directly over the Houston/Galveston metropolitan area.							
		The highest winds in Alicia were estimated from a survey of building damage to have been near 130 mph on the extreme southwest end of Galveston Island. The National Weather Service Office in Galveston reported sustained winds of 71 mph with a peak gust of 102mph. The National Weather Service Office in Alvin, near Houston, reported a sustained wind of 40 mph with a peak gust of 63 mph. Sustained winds of 51 mph with a peak gust to 78 mph was reported at the Houston Intercontinental Airport.							
		Between 50,000 and 70,000 persons were evacuated from Harris, Brazoria and Matagorda Counties, and over 20,000 took refuge in shelters within the city of Houston itself. It is estimated that beach erosion on the west end of Galveston Island was about 250 feet. A high water mark of 9 feet in City Hall in Galveston indicates a surge of about 12 feet. The following reports attempt to describe the major damage caused by Alicia on a county-by-county basis. Reports of damage due to tornadoes spawned by Alicia follow this portion in chronological order.							
		Major damage to Brazoria County was more to the winds of Alicia than to the flooding brought about as a result of the 3 to 6-inch rains accompanying Alicia. For many of the towns and cities of Brazoria County, flooding was widespread but did not pose a serious threat to life. The worst flooding occurred in Pearland, where roads were closed through much of the 18th.							
		Considerable damage was reported to roofs of homes and to mobile homes and automobiles across the eastern portion of the County. In Danbury, for example, it was estimated that 65 percent of the structures were damaged. Damages to houses and property in Freeport were estimated at about \$1 million. Damage was also reported to several aircraft at the Freeport airport.							
Chambers County		Widespread power and telephone outages were reported in Winnie, High Island, Crystal Beach and Bolivar. Over 200 homes were flooded with some 600 people spending the night in shelters. The most severe damage appears to have occurred in Cedar Point, near the southern end of Bay City, where a large number of homes were destroyed with many others badly damaged. Estimates of \$19 million in residential and personal damage were made, with \$5 million damage to industry and commerce. Crop damage included between 30 and 50 percent of the county's rice and soybean crops.							
Fort Bend County		The high winds and heavy rain knocked out power lines and caused power losses in Richmond, Rosenberg, Stafford, Fairchild, Thompson, Sugar Land and Arcola. Again, wind damage appears to have been more significant than the widespread minor flooding caused by the general 4 to 6-inch rains over the county. Damage was reported to buildings, trailer homes and automobiles across Fort Bend County.							
Galveston County		The only known deaths in Galveston County occurred when two crewmen fell overboard as two shrimp boats capsized near Clear Lake on Galveston Bay during Alicia's passage. Property damage in the county was estimated at over \$100 million, and telephone and power lines were down with power out for nearly a week. Fortunately, there were few injuries.							
		On Galveston Island, flooding occurred from about 0200CST on as the city received nearly 8 inches of rain. Most problems were limited to street flooding with the civil defense reporting no water in buildings. In the city of Galveston, several streets were under water and blocked off. One mobile home community had been wiped out. Two large condominiums built beyond the sea wall appeared to have lost windows but structural damage was not certain. Signs, trees, power and telephone lines were down. To the west of the city, damage was widespread to the condominiums and apartment complexes. Roads were blocked and damaged.							
		The community of Jamaica Beach suffered damage to over 90 percent of the homes, with about 50 or so having major damage. This same damage was caused by the storm surge across the west end of the Island. High water closed the operation of the Bolivar Ferry from Galveston to the Bolivar Peninsula and the San Luis Pass Bridge from Galveston to Brazoria County. By early Thursday, Galveston Island was isolated.							
		The mainland damage appeared to be the worst in Texas City and Hitchcock. Schools suffered considerable damage in La Marque, where total damages to the city were put at \$20 million. 90 percent of the homes had some damage. One apartment complex, in particular, suffered the destruction of 90 percent of the units. A great amount of damage was also sustained by mobile homes, as occurred in Dickinson, where 60 to 70 were damaged or destroyed. Damage to property in League City was estimated at \$100 million. A great amount of that was roof damage.							



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AUGUST 1983

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<b>TEXAS, Southern</b>									
Harris County	18	0505CST	.3	30	0	0	?	?	Tornado (FO)
									A tornado touched down briefly west of Houston Hobby Airport.
Harris County	18	0620CST	1	40	0	0	?	?	Tornado (FO)
									A small tornado was sighted 6 miles east of Houston Intercontinental Airport. It was moving northwest.
Montgomery County	18	1010CST	.5	30	0	0	?	?	Tornado (FO)
									A tornado was reported 10 miles east of Conroe on S.H. 105. Movement was not known.
Wharton County	18	1555CST	.5	40	0	0	?	?	Tornado (FO)
									A small tornado was observed as it touched down near El Campo. It was moving to the northeast.
Harris County	18	1615CST	.5	30	0	0	?	?	Tornado (FO)
									A tornado was observed briefly as it touched down southwest of the Houston downtown area. It was moving to the northwest.
Brazoria County	18	1830CST	.3	30	0	0	?	?	Tornado (FO)
									A tornado touched down near Damon, along the Brazoria-Fort Bend County line.
Brazoria County	18	1835CST	.3	30	0	0	?	?	Tornado (FO)
									A tornado was spotted near Alvin. It was short-lived.
Harris County	18	1920CST	1	50	0	0	?	?	Tornado (FO)
									The last tornado associated with Hurricane Alicia was sighted near Houston Hobby Airport, moving rapidly to the northeast.
Galveston County	19	1115CST			0	0	0	0	Funnel
									A funnel was sighted near Hitchcock by the Police Department.
Jefferson County	21	1314CST			0	0	0	0	Funnel
									A funnel was sighted 4 miles south of the Jefferson County airport.
Aransas County	22	0953CST			0	0	0	0	Waterspout
									A waterspout was visible for approximately 3 minutes in Copano Bay just north of Rockport.
Calhoun County	23	1100CST			0	0	0	0	Funnels
									Two funnels were sighted off Magnolia Beach near Powderhorn Lake.
Galveston County	24	0845CST			0	0	0	0	Funnel
									A funnel was observed near Dickinson by the Police Department.
Calhoun County	24	0910CST			0	0	0	0	Funnel
									A funnel was sighted near Seadrift.
Aransas County	25	1057CST			0	0	0	0	Funnels
									Department of Public Safety officers sighted two funnels over Red Fish Bay near Highway 361.
San Patricio County	25	1100CST			0	0	0	0	Waterspouts
									Two waterspouts were observed 2 miles southeast of Rockport in San Patricio County.
San Patricio County	25	1225 CST			0	0	0	0	Funnel
									A small funnel was sighted by aircraft southeast of Sinton in San Patricio County.
Bee County	25	1225CST			0	0	0	0	Funnel
									Department of Public Safety officers spotted a funnel just north-east of the Naval Air Station at Berclair in Bee County.
<b>41 TEXAS, Western</b> ————— NONE REPORTED									
<b>42 UTAH</b>									
Cache County	09	0500MST			0	0	4		Flash Flood
									A Flash Flood out of Green Canyon carried mud, rocks, and water into the basements and yards of several homes of Cache County residents early this Tuesday morning. In addition, the city's culinary water system in Green Canyon was washed out. Residents were forced to boil drinking water, and place sandbags to hold flood waters back. The sandbags prevented more damage on the following Wednesday evenings the area received between 1 and 2 additional inches of rainfall, and flood waters once again rushed down the canyon.
Salt Lake County	12	1500MST			0	2	3		Flash Flood
									Heavy rainfall in the Storm Mountain area of Big Cottonwood Canyon caused some flooding and washed rocks and silt over the highway for about 1000 feet. The road was blocked for approximately 4 hours and the water treatment plant near the bottom was closed due to the heavy flow of silt. Three automobile accidents resulted from the downpour, including one in which a large rock rolled down the mountainside and struck a car. Another vehicle skidded off the road and rolled down the embankment 100 feet, into the stream.
Salt Lake, Eastern Tooele, and Utah Counties	14	1800MST			0	0	3		Flash Flood
									Two miles of U-73 north of Cedar Fort was covered by a foot of water and a 2 foot wall of water moved down U-68 as a thunderstorm dumped as much as 1 inch of rain in 30 minutes at Herriman Utah and surrounding areas. A mudslide four feet deep also closed U-73 at the Ophir turnoff.
Salt Lake County	17	1800MST			0	0	4		Flash Flood
									A heavy thundershower moved over Salt Lake County on this Wednesday evening causing some minor flooding in the cities of West Jordan, Kearns, Riverton, and West Valley City. Flooding washed out the road at 4500 West and 6800 South and four feet of water blocked the underpass at 5600 South and 4800 West. Sandbags were used in many places to prevent basement flooding. Also, the road along 5600 West from 4100 to 4500 South was washed out. One flash flood spotter in the area reported receiving 1.20 inches in 20 minutes.
Davis, Salt Lake, Northern Utah, and Weber Counties	18	1700 to 2100MST			0	0	5		Flash Flood
									A train of thunderstorm cells moved up the Wasatch Front for a second night of flooding on this Thursday evening. Extensive basement flooding on the west side of the Salt Lake Valley was caused by overflowing irrigation canals, and soil which was saturated from earlier rainfall. Heavy rainfall from one particularly strong cell began the melee by dumping 1.19 inches of rain in 30 minutes at Fairfield Utah. As it moved northward it left 0.50 inches in less than 15 minutes in many places. In the cities of West Jordan, West Valley City, Kearns, Magna, and Hunter, about 24 homes were flooded. Additional basement flooding occurred in Davis County. One woman and her daughter had to be rescued from flood waters after she attempted to drive through fast flowing water over U-73 near Cedar Fort. Her automobile was swept off the road and into a deep hole. Power outages affected many from Salt Lake City to Ogden. The Alta view Hospital was forced to operate on its own generators for 44 minutes. In downtown Salt Lake City, two small geysers broke through the asphalt near the intersection of 500 South and Main Street. Erosion of the shoulders of highways and railroad beds was considerable. The Denver and Rio Grande Western Railroad was advised by county engineers to avoid using its tracks between Midvale and Magna. Mud and rock slides were also reported in several canyons in the area.
Davis, Morgan, Salt Lake, Sevier, Tooele, and Weber Counties	21	1640 to 1900MST			0	1	3	3	Severe Thunderstorm with Hail
									A record breaking hailstorm dumped up to 1 1/4 inch diameter hail over six Utah counties on this Sunday evening. Long time residents of the area could not remember hail as large as that produced by this storm. The effects of the storm were first felt in Tooele County as it leveled several hundred acres of alfalfa and bruised fruit crops. The storm then spread north and east into Salt Lake and Davis Counties. Most damage was done to trees, but some damage to cars and homes was reported. A few windows of homes were broken in the north section of Salt Lake City. Also the windshields of 15 cars were broken on Intestate 15 in Salt Lake City. About 100 homes lost power during the storm.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1983

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED <sup>1</sup> DAMAGE	CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS		
<b>43 VERMONT</b>										
St. Johnsville, Dansville Caldonia County	01	1400EST			0	0	5	0		Thunderstorm
A thunderstorm struck at mid afternoon and ripped off 2 roofs and the top of a mail truck. Countless trees and power lines were also damaged.										
Springfield, Windsor	01	1400EST			0	2	5	0		Thunderstorm
Thunderstorms hit the city of Springfield Monday afternoon. Lightning was blamed for starting one home on fire. 2 youths were in a small boat on the Black River when the storm hit resulting in some minor injuries. A main power line was taken down which put hundreds of homes in "The Dark".										
Colchester, Chittenden County Addison County	08	1500EST	?	?	0	0	6	6		Tornado (F2)
A tornado hit Colchester on the afternoon of the 8th. Winds at WSO Burlington hit 59 MPH but other unofficial reports put the wind speed near 80 MPH. Hail was said to be ping pong ball size. Aircraft were blown over at Champlain Airport. 100 ft trees were snapped like matchsticks.										
State of Vermont	08	PM			0	5	6	6		Thunderstorms
Thunderstorms moved through Vermont during the afternoon and evening of the 8th. In addition to the tornado reported above, strong winds and hail were scattered over most of Vermont. Damage was scattered and on the minor side, with mostly small crop damage and power outages.										
<b>44 VIRGINIA</b>										
Mathews County	1	Afternoon			0	0	3	0		Wind
At Gwynn's Island a very strong, localized windstorm brought down a large tree on a workshop-storage building..demonlishing it.										
Rockingham County	3-5				0	0	0	0		Lightning
Lightning strikes set fire to very dry fields and woodland, causing several acres to be burned, in the Elkton-McGaheysville area.										
Northumberland County	3	Afternoon			0	0	3	0		Wind
Two large trees fell during a severe local windstorm at Cowart Wharf Post Office, crushing an automobile.										
Woodbridge	4	2200EST			0	0	5	0		Wind, Rain
Two townhouses under construction, in the Rollingwood Village subdivision, were leveled by winds estimated at 90 - 100 mph. House-siding and roof damage was prevalent - one home incurring considerable damage to three rooms and two crushed new automobiles, when a huge 100-ft-high maple tree was uprooted. In addition, many basements were flooded by heavy rain.										
Eastern	5	1700-1900EST			0	0	5	0		Wind
A downburst-type storm caused extensive damage in a narrow corridor extending from the vicinity of Hanover County Courthouse southward through the Richmond-Petersburg area. Power outages affected thousands of homes, and wind-downed trees blocked roads and damaged homes and several cars.										
Pittsylvania and Patrick Counties	6	1300-1500EST			0	0	5	5		Hail, Wind, Lightning
Hail devastated tobacco crops in the Sonans-Swansonville areas with farmers reporting a total loss, in some cases. High winds also leveled farm buildings in the vicinity. Near Patrick Springs, lightning struck a church, with the resulting fire destroying the steeple.										
Northern and Western	11	Afternoon-Evening			0	5	6	0		Wind, Lightning
Violent thunderstorms were generated as a low pressure center moved eastward from the Great Lakes region. The first activity occurred in Shenandoah County around 2PM, where lightning caused around \$14,000 damage to a house trailer when it struck the television antenna. At around 4PM, storms tore through portions of Augusta, Rockbridge and Alleghany Counties..with devastation wrought at a trailer camp in Clifton Forge. Here, 18 mobile homes were destroyed and 15 others damaged, causing 5 injuries and 100 persons homeless..damage estimated at around \$500,000. Near dusk, the southwest corner of the state was hit, damaging winds being reported in Lee, Scott and Washington Counties. In the city of Bristol a fiberglass plant was severely damaged, as winds tore off 70,000 square feet of roof..repair estimated at about \$1 million.										
Buckingham and Nottoway Counties	20	1900-2000EST			0	0	4	0		Wind
In the town of Buckingham tree and property damage was reported. Later, around 8PM in the town of Crewe, winds blew down trees and a greenhouse was heavily damaged.										
Smyth County	21	Afternoon			0	0	0	4		Hail
Localized hailstorm severely damaged crops and gardens in the Rich Valley community, around 3:30PM.										
<b>— VIRGINIA</b>										
Statewide	22	Afternoon-Evening			0	4	5	5		Wind, Hail, Lightning
Violent thunderstorms caused widespread damage and personal injury as activity developed in association with very hot, humid weather. Autos were crushed by falling trees causing one injury in the Richmond area, and some \$50-60,000 damage to a residence in Loudoun County. Two golfers were injured by lightning in Blacksburg, while a man riding a tractor was shaken up when a bolt struck the tree he was under near Sydnorsville, Franklin County. Hail caused from 50-100% damage to crops in a path extending from eastern Franklin County eastward into Halifax County. In general, the activity began in early afternoon over the west and north sections of the state..culminating in the vicinity of Norfolk and the Eastern Shore between 7PM and 8PM.										
Statewide	23	1430-1800EST			0	1	5	5		Wind, Hail, Lightning
For the second day in a row heavy thunderstorms affected a large portion of the state, this time following an active cold frontal system as it moved out of West Virginia and Pennsylvania. Trees again took their toll, with many reports of buildings and motor vehicles being damaged. Winds also brought a grandstand down in the Big Stone Gap area, blew a feed mill apart in Stuarts Draft, caused thousands to be without electrical service and threw a tree limb through the windshield of a car, injuring an infant inside. Severe tobacco crop and garden damage occurred, in addition, in Lunenburg County and near Keysville, Charlotte County.										
Fluvanna County (nr Dixie)	23	1600EST	1/4	100	0	0	3	0		Tornado (F1)
A small tornado that was apparently not completely on the ground, moved in a northwest to southeast direction. An observer reported that the funnel snapped off about 30 sturdy pine trees on one side of a brick home, but did no damage to the house itself. Some damage was done to two small outbuildings.										
Mecklenburg County	29	1845EST			0	0	3	0		Wind
A locally severe thunderstorm brought many trees down in the area from the Barnes Junction community to Baskerville. Power poles were also damaged, with outages affecting 1,600 homes.										
Warsaw (nr) Richmond County	31	1700EST	1/8	60	0	0	4	0		Tornado (F2)
A small tornado formed during a thunderstorm, wringing off several trees on the west side of an egg producing concern. It then jumped over the plant and took out several more trees on the east side of the building and destroyed a large storage barn, scattering egg cartons over wide area.										
<b>45 WASHINGTON</b>										
Chelan County	10	Late Afternoon			0	?	5	5		Flash Flooding
A 4 foot wall of water rushed down three canyons from the hills north of Lake Chelan. It uprooted trees, moved boulders, washed out roads and irrigation pipes, and flooded alfalfa fields, orchards, yards and basements. The flash flood was a result of very heavy rain in the Cooper and Purteman Gulch areas. Estimate of damages to roadways was \$100,000 and to homes \$300,000. Damage to crops was estimated near \$100,000.										
Olympia (Thurston County)	27	1630PST			0	0	0	0		Hail
The National Weather Service in Olympia observed hailstones three-quarters of an inch in diameter.										
<b>46 WEST VIRGINIA</b>										
Point Pleasant in Mason County	01	1400EST			0	0	?	0		Thunderstorm, Wind
Thunderstorm downbursts caused a building to be damaged in Point Pleasant. Damage was also reported to trees and power lines throughout the county. Small hail was reported in Point Pleasant.										
Ripley area in Jackson County	01	1400EST			0	0	3	0		Thunderstorm, Wind, Hail
A severe thunderstorm was reported in the Ripley Area at 1400EST with wind gusts estimated at 60 MPH. Several large trees were topped and smaller trees downed and/or uprooted. A roof was blown from a mobile home and a carport destroyed. Small hail was also reported.										
SW Morgantown in Monongalia County	01	1515EST			0	0	?	0		Hail
Hail 3/4 inches in diameter and wind gusts to 48 MPH were reported southwest of the city of Morgantown.										
Huntington & Cabell County Area	09	1510-1525EST			0	0	3	?		Thunderstorm, Wind, Hail
Straight line winds accompanying a severe thunderstorm caused wind damage to several roofs and homes in western Cabell county and at West Pea Ridge and Salt Lick around 1525EST. Hail 1 inch in diameter was observed at East End Huntington at 1510EST.										

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1983

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					KILLED	INJURED	PROPERTY	CROPS	
<b>WEST VIRGINIA</b>									
Mt. Lookout in Nicholas County	09	1630-1700EST			0	0	2	0	Thunderstorm, Wind
									Wind gusts accompanying a thunderstorm knocked several mobile homes off their foundations and uprooted and damaged numerous trees.
Mason County	11	1400-1530EST			0	0	3	4	Thunderstorm, Wind, Hail
									Thunderstorm wind gusts caused a roof to be blown from a trailer in the western portion of Mason County. Hail accompanying the storm was estimated to be 1 1/2 - 1 3/4 inches in diameter. Hail caused damage to tobacco crops in Mason, Point Pleasant, and the Buck Hill areas.
Raleigh, Wyoming & McDowell Counties	11	1630-1815EST			0	0	?	?	Thunderstorm, Wind, Hail
									Thunderstorms with strong straight line winds and hail caused damage to large trees and power lines in Raleigh and Wyoming Counties between 1630 and 1815EST. Hail 1 inch in diameter was reported in McDowell County near Welch at 1630EST.
Central and North Central West Virginia	22	1800-1930EST			0	0	3	0	Thunderstorm, Wind
									Straight line winds accompanying a thunderstorm caused damage to several roofs on the west side of Charleston. Wind damage to large trees was also reported at Copely in Lewis County and throughout northwestern portions of Randolph County.
<b>47 WISCONSIN</b>									
Price County	02	2230CST			0	0	2	0	Wind
									A heavy thunderstorm blew windows out of a garage and downed a few trees in Spooner.
Price County	03	0115CST			0	0	4	0	Lightning
									Lightning destroyed a farmhouse near Kaiser Corners.
Washington County	04	0540CST			0	1	4	0	Lightning
									One person was injured when lightning struck and caused extensive damage to a silo and barn near Kewaskum.
Brown, Eastern Shawano Counties	06	1440CST			0	0	?	0	Wind, Lightning
									An intense thunderstorm with winds to 50 mph downed trees and power lines. Lightning struck a home near Ashwaubenon causing considerable damage.
Green Lake County	06	1530CST			0	0	4	0	Lightning
									A building burned to the ground after being struck by lightning north of Green Lake.
Columbia County	06	1630CST			0	0	?	0	Wind
									A heavy thunderstorm produced winds to 50 mph and marble-size hail at Wisconsin Dells. Power lines were reported down throughout the county.
Sauk County	06	1810CST			0	0	?	0	Wind
									Power lines were downed as thunderstorm winds up to 50 mph crossed the county.
Oconto County	10	0900CST			0	1	3	0	Wind
									Winds from a heavy thunderstorm sent a large tree branch through the roof of an Oconto home slightly injuring a young boy.
Lafayette County	10	1600CST			0	1	6	7	Wind, Hail
									Hail up to the size of baseballs, combined with winds up to 60 mph, cut a hail swath 3 miles wide from north of Cuba City on the Grant County line 25 miles eastward to Wota. The hail either totally or partially destroyed 17,000 acres of crop land (\$5 million). Extensive hail damage to buildings and farm equipment occurred at Jenkynsville, Seymour, Darlington, and Wota (\$3.5 million). The Wardsville church windows blew inward resulting in damage to its organ. Several barns slid from their foundations. Hail hit many roofs which needed complete replacement. Seven houses in Lafayette Acres were damaged. In a house near Belmont, broken glass splinters were driven into the carpet. One person was injured when wind blew out windows and he was pelted by hail in Shullsburg.
<b>WISCONSIN</b>									
Waukesha County	10	1645CST			0	0	?	0	Wind
									A heavy thunderstorm uprooted a tree in the town of Summit and caused power outages in the county.
Green County	10	1715CST			0	0	?	0	Wind, Funnel Cloud
									Many trees and power lines were downed by severe thunderstorm winds in New Glarus, Monroe, and Brodhead areas. A funnel cloud was also reported in the vicinity of Brodhead.
Rock County	10	1720CST			0	4	5	0	Wind, Lightning
									Lightning struck 4 golfers near Beloit as well as causing a fire at a Janesville home and a fire which destroyed a historic barn near Whitewater. Numerous trees were downed between Brodhead and Orfordville.
Milwaukee County	10	1724CST			0	0	4	0	Lightning
									Lightning struck a church steeple in northern Milwaukee causing \$5,000 in damage.
Racine County	10	1745CST			0	0	?	0	Wind
									Strong thunderstorm winds gusting to 62 mph were reported on the north side of the city of Racine along with downed power lines and trees.
Brown, Kewaunee, and Door Counties	11	0300CST			0	0	5	0	Wind
									Northeast winds gusting to 50 mph caused high waves to develop along the west shore of the Bay of Green Bay. Considerable damage was done to docks, breakwaters, boathouses and boats moored on the docks. Some flooding was reported at Voyageur Park and trees were downed in Peninsula State Park.
Pierce County	15	1605CST			0	1	?	0	Wind, Hail
									Thunderstorm winds downed tree branches and power lines and marble-size hail covered the ground two miles north of Elisworth. Trees were downed and golf-ball size hail was reported in River Falls. One person was injured seriously when struck by a falling tree branch in Hager city.
Waupaca County	15	1830CST			0	0	?	0	Lightning
									Lightning struck an electrical connection, blowing a fuse at a Clintonville substation and knocking out power to 80% of the town.
Pierce County	16	1500CST			0	0	?	0	Hail
									Strong thunderstorms dumped hail up to marble-size which covered the ground in the Elisworth and River Falls area.
Eau Claire County	16	1610CST			0	0	?	0	Wind
									Heavy thunderstorms with winds to 50 mph reported in Union Township.
Clark County	16	1710CST	0.1	25	0	0	5	0	Tornado (F0)
									A small tornado touched down 2 miles east of Christie extensively damaging a farm and home. An empty silo was leveled and the top of another blown off. The house was tilted. The electric meter and all but one top story window was blown out. An outhouse and shed were knocked over. Several large trees were destroyed. Further down the road, another barn was blown down along with a tree and chopper wagon.
Clark County	16	1720CST			0	0	4	0	Lightning
									A house was destroyed after lightning started a fire. Two cows were killed after being struck by lightning near Granton.
Juneau County	16	1900CST			0	0	4	0	Wind
									Strong thunderstorm winds lifted protective tarps and plastic on a renovated building in Mauston allowing heavy rain to cause \$8,000 in water damage.
Outagamie County	16	1930CST			0	0	?	0	Lightning
									A house fire caused by a lightning strike was reported in Appleton.
Adams County	16	1950CST			0	0	?	0	Hail
									Pea-size hail and several lightning strikes were associated with a strong thunderstorm 10 miles north of Wisconsin Dells.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1983

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					KILLED	INJURED	PROPERTY	CROPS	

— WISCONSIN										
Vernon County	16	2000CST			0	0	4	0	Lightning	Lightning struck and killed 12 holstein cows apparently seeking shelter in a wooded area near Hillsboro.
Richland County	16	2030CST			0	0	4	0	Wind, Lightning	Lightning struck a mobile home 4 miles north of Richland Center burning it to the ground. Reports of high winds and power outages caused by thunderstorms were reported throughout the county.
Dodge County	16	2035CST			0	0	?	0	Lightning	A home near Reeseville was damaged by lightning.
Dane County	16	2045CST			0	0	4	0	Lightning	Lightning caused \$5,000 damage to a home in Stoughton. Thunderstorm winds blew down two large oak trees near Mt. Horeb, as well as downing power lines throughout the county.
Jefferson County	16	2100CST			0	0	?	0	Wind, Lightning	Severe thunderstorms caused tree damage in Fort Atkinson and lightning started fires near Johnson Creek, Whitewater, and north of Jefferson. Scattered power outages were also reported in the county.
Green County	16	2100CST			0	0	?	0	Lightning	Lightning started a house and sawmill on fire in the town of York.
Rock County	16	2130CST			0	0	3	0	Wind, Lightning	A severe thunderstorm downed many trees as it moved across Evansville. Another thunderstorm went through Edgerton falling numerous trees including two 70 foot maples which landed on a residence causing minor damage. The north half of Edgerton lost power for most of the night.
Walworth County	16	2210CST			0	0	?	0	Wind	High winds from a heavy thunderstorm gusted to 53 mph at Lake Geneva.
Waukesha County	16	2210CST			0	0	2	0	Wind, Lightning	A lightning bolt struck the top of a maple tree and traveled down the trunk, digging a hole in the ground in Oconomowoc. The bolt carved a gash 3 inches wide, 2 inches deep and 25 feet long. Winds from a thunderstorm, blew windows out of a pharmacy in Butler.
Milwaukee County	17	0545CST			0	0	4	0	Lightning	Lightning caused \$35,000 damage to a church in Wauwatosa. A chimney fire sparked by lightning caused \$3,000 damage to a house in Wauwatosa. Two other homes in Milwaukee were also hit by lightning causing \$7,000 damage.
Burnett County	19	0730CST			0	0	3	0	Wind	Severe thunderstorm winds, reported up to 70 mph, uprooted several large trees and created scattered power outages in Grantsburg.
Washburn County	19	0800CST			0	0	3	0	Wind	Thunderstorm winds damaged farm wagons and other equipment as well as downing some large trees in the Shell Lake area.
Dodge County	21	1441CST	0.1	20	0	0	?	0	Tornado (F0)	A small tornado uprooted trees and downed a barn 4 miles east of Fox Lake. Winds associated with the tornado pushed 2 cars off Highway 151.
Dodge County	21	1450CST			0	0	0	0	Funnel Clouds	3 funnel clouds were reported over Horicon marsh.
Jefferson County	21	1510CST			0	0	?	0	Funnel Clouds	Several funnel clouds were sighted at Lake Mills and Watertown. Associated winds blew down trees and power lines.
Fond du Lac County	21	1550CST			0	0	0	0	Funnel Clouds	Numerous funnel clouds were reported near Rosendale.
Waukesha County	21	1630CST			0	2	?	0	Lightning	A tree struck by lightning fell on a passing vehicle on Highway 83 near Pine Lake. The car collided with another car injuring 2 women.

— WISCONSIN										
Dane County	25	0630CST			0	0	4	0	Lightning	Lightning started a fire that did extensive damage to a tavern near Brooklyn.
Douglas County	26	0255CST			0	0	?	0	Wind	Strong thunderstorms produced wind gusts in excess of 40 mph in the Superior area.
Dodge County	26	0930CST			0	2	4	0	Lightning	Lightning struck a home near Horicon causing extensive damage and raised a garage from its foundation. Two teenagers were slightly injured.
Walworth County	27	0330CST			0	0	?	0	Wind, Flooding	A thunderstorm complex brought power outages and knocked down dozens of trees near Genoa City. About 5 inches of rain fell within an hour causing widespread street and basement flooding.
Burnett, Douglas Counties	28	0125CST			0	0	?	?	Hail, Wind	Hail and wind damage caused by heavy thunderstorms occurred in the western portion of the counties.
Barron County	28	0200CST			0	0	4	0	Wind	Wind from thunderstorms blew down a barn and caused minor damage to a house south of Barron.
Trempealeau County	28	1230CST			0	0	?	0	Hail, Wind	Heavy thunderstorms dumped pea-size hail and winds gusted to 40 mph at Ettrick.
Marathon County	29	2330CST			0	0	?	0	Hail, Wind	A line of severe thunderstorms dumped hail up to 1/2 inch and produced winds which downed trees and caused numerous power outages.
Shawano County	29	2345CST			0	0	?	0	Wind	Thunderstorms caused tree damage and power outages near Tigerton.
Waupaca County	30	0035CST			0	0	2	0	Lightning	Lightning killed a cow near Big Falls and destroyed a tree near Marion.
48 WYOMING										
Fremont, Hot Springs, Washakie Counties	10	Evening			0	0	3	4	Hail, Lightning	A large area of severe thunderstorms rumbled through west central Wyoming. Three-quarter inch hail fell near Thermopolis and just northeast of Worland, causing extensive crop damage especially to beets. The storms also had very intense and frequent lightning, which caused power outages and damages to homes and barns in the Riverton and Worland areas. Minor flash flooding was also reported near Riverton and Worland as 1 to 2 inches of rain fell.
Laramie, Albany County	18	1445MST	0.2	15	0	0	0	0	Tornado (F0)	A small tornado briefly touched down just north of Laramie in an open area, causing no damage.
Kemmerer, Lincoln County	21	1335 and 2010MST			0	0	0	0	Hail	Two separate hail storms occurred just east of Kemmerer. The first one in the afternoon had 3/4-inch hail, while the evening storm produced golf-ball sized hail. Very little damage occurred.
Gillette, Campbell County	21	1955MST			0	0	0	0	Winds	Thunderstorm winds of up to 65 mph blew through the Gillette area causing little damage.



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AUGUST 1983

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					KILLED	INJURED	PROPERTY	CROPS	
<b>49 ALASKA, Northern</b>									
Northwest Alaska	11	1300 BST			0	0	0	0	Waterspout
	A moist, unstable airmass spread over northwest Alaska following a cold frontal passage from the west on Aug. 11. A pilot reported a waterspout 8 miles southwest of Selawik Lake in an area of heavy rainshowers. The approximate coordinates of the waterspout are 66.3°N, 161°W.								
Fairbanks	16	1240 AST			0	0	0	0	Funnel Cloud
	A moist, unstable airmass over the central and eastern Interior of Alaska spawned vigorous rainshowers on the 16th. A funnel cloud was briefly sighted just northwest of Fairbanks. No damage was reported.								
Northwest Alaska	17-18	night			0	0	?	0	High Winds
	A large, vigorous low pressure system moved eastward from Siberia just north of the Arctic coast of Alaska. Winds to 60 knots were reported in Bering Strait and to 53 knots at Cape Lisburne on the night of Aug. 17-18. No damage was reported, though a ship in Bering Strait reported rough going in high seas.								
<b>49 ALASKA, Southern</b>									
South Central	08	0900 AST			0	0	3	0	High Wind
	A strong frontal system brought winds to over 40 mph with some reports of gusts to 70 mph to East Anchorage.								
<b>49 ALASKA, Southeastern</b> — NONE REPORTED									
<b>50 HAWAII</b>									
Kauai & Oahu	03				2	0	3	0	Wind, Surf
	Tropical Storm Gil moved on west northwesterly course just north of Oahu and Kauai on August 3rd. High surf along the east and north-east shores caused minor damage. Wind and rainfall over the Islands to the south of the storm center were light though 45 MPH wind with gusts to 55 MPH along with heavy showers occurred over the open waters just north of center. The sailing vessel HURRICANE with two aboard on a voyage from Long Beach to Honolulu reported missing in the area affected by the storm and presumed to be a casualty.								
<b>51 PUERTO RICO</b> — NONE REPORTED									
<b>52 VIRGIN ISLANDS</b> — NONE REPORTED									
<b>53 PACIFIC</b> — NONE REPORTED									

# STORM SUMMARY

AUGUST 1983

STATE	TORNADOES					HAILSTORMS			WINDSTORMS				LIGHTNING				FLOODING				HEAVY SNOWSTORMS AND BLIZZARDS				ICE STORMS				ALL OTHER			
	NUMBER	DAYS	DEATHS	INJURIES	DAMAGE	DEATHS	INJURIES	DAMAGE		DEATHS	INJURIES	DAMAGE		DEATHS	INJURIES	DAMAGE		DEATHS	INJURIES	DAMAGE		DEATHS	INJURIES	DAMAGE		DEATHS	INJURIES	DAMAGE				
								PROP. ERTY	CROPS			PROP. ERTY	CROPS			PROP. ERTY	CROPS			PROP. ERTY	CROPS			PROP. ERTY	CROPS			PROP. ERTY	CROPS	PROP. ERTY	CROPS	
Alabama	2	2			5			?	?		1	4	5	1	10	5																
Arizona	3	3			5					1	4	6	4	1	3	3																
Arkansas	1	1						4	?		2	2	5	?	?	5	?															
California	5	2		1	?			3	4		?	?	4	1	3			5	?	?	5							13				
Colorado																													8			
Connecticut	1	1						4	?			5			?																	
Delaware								3	4			4			4																	
Florida	6	5		2	6			2	?	1		6	?	5	4	5	?															
Georgia	1	1			4			5	2			1	2	2	5																	
Idaho	1	1						3	6		1	7	4		2						5											
Illinois												5		1	6																	
Indiana												4	2																			
Iowa								4	4			6	?		4																	
Kansas								4	4			5	2	1	4	5																
Kentucky	3	2		6	4			4	4		3	5	4	1	4	5																
Louisiana	1	1			6							3	?		4				?	7												
Maine												6	?		5																	
Maryland & DC												5	6	3	2	6					4											
Massachusetts	1	1								1		4	4		?						5											
Michigan	1	1			2						1	1	5		5																	
Minnesota																																
Mississippi	1	1			5			5	6		6	6	6		5																	
Missouri								5	?		5	5	6	?	1	2	?	?														
Montana								4	5		1	5	4		1	2	?															
Nebraska								5	6			6	4		1	5	2				6	5										
Nevada	1	1																			6	?										
New Hampshire											1	6			5																	
New Jersey								?				?			?						?											
New Mexico														3	1						5	5										
New York	1	1		1	6					1	10	7		3	3	6				5												
North Carolina	2	2			6																											
North Dakota	9	4			5			5	6		1	6	?	1	30	6										1	?	?	?			
Ohio								5	5		2	5	5			5				40	C											
Oklahoma	1	1						4	?			4	?		?	?				?	?											
Oregon								?	?			?	?		?	?				?	?											
Pennsylvania	4	1		2	7			3			22	6		3	4					5	?											
Rhode Island																																
South Carolina								3				5	3		2	5										3	?	5	8			
South Dakota	2	1			4			?	?			5	4		5	5				4												
Tennessee	1	1			?			?	?		1	6	?	5	14	6										3			8			
Texas	22	2		2	6					11	1800	9	9							4												
Utah																					2											
Vermont	1	1			6							7	6	6		?																
Virginia	2	2			4			3	6			7	6	4		3	5				?											
Washington																																
West Virginia												4	?		?																	
Wisconsin	2	2			5			1	6	7		2	6	?	7	5	?				?								?			
Wyoming	1	1						3	4				2		3																	
Alaska																																
Hawaii																																
Pacific																																
Puerto Rico																																
Virgin Islands																																

## REFERENCE NOTES

Storm damage categories are from 1 to 9 as follows:

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

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

## Definition of Fujita Tornado Scale (F scale)

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

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

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

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

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

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

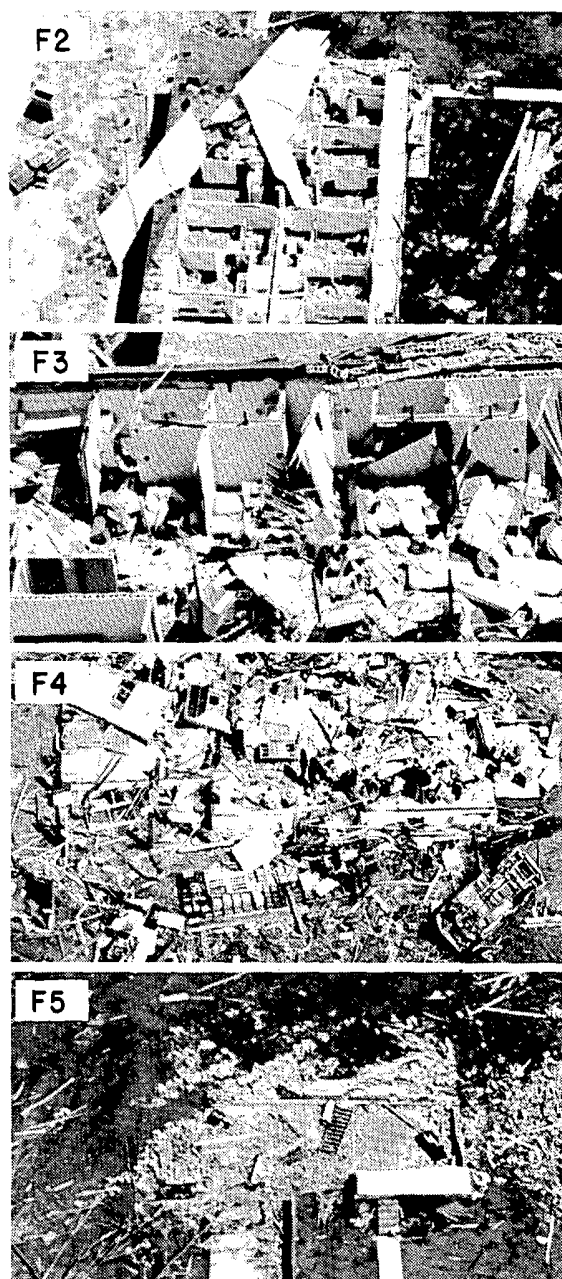
(F6-F12) (319 mph to Mach 1, the speed of sound):  
The maximum wind speeds of tornadoes are not expected to reach the F6 wind speeds.

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

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