

STORM DATA



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NATIONAL CLIMATIC DATA CENTER, ASHEVILLE NORTH CAROLINA"
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C O N T E N T S

Cover: An officer is pinned atop his car in a flooded underpass in Milwaukee, Wisconsin as rains in excess of 7 inches fell in a short period on the afternoon of August 6th. The rains broke all previous records for storm durations of 5 minutes to 24 hours (see HEAVY RAINS and FLOODING at MILWAUKEE, WISCONSIN, page 9). ---Photo by Benny Sieu, The Milwaukee Sentinel; provided by the NWSFO at Milwaukee, Wisconsin.

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STORM DATA (ISSN 0039-1972)

The section on Outstanding Storms of the Month is prepared by Professor T. Theodore Fujita, editor, and Duane J. Stiegler, associate editor, the University of Chicago with funding by the U. S. Office of Naval Research. The Storm Data and Unusual Weather Phenomena narratives, and summaries of Hurricanes/Tropical Storms are prepared by the National Weather Service. The National Climatic Data Center compiles statistics on deaths, injuries, damage, and prepares the annual summaries of Tornadoes and Lightning. This publication contains our best information on storms, but, due to the difficulties inherent in collection of this type of data, it is not all-inclusive. Late reports and corrections will be carried quarterly. Maps of zones used in the Storm Data and Unusual Weather Phenomena will be published in these editions; Eastern States: JAN, APR, JUL, OCT.
Central States: FEB, MAY, AUG, NOV.
Western States: MAR, JUN, SEP, DEC.

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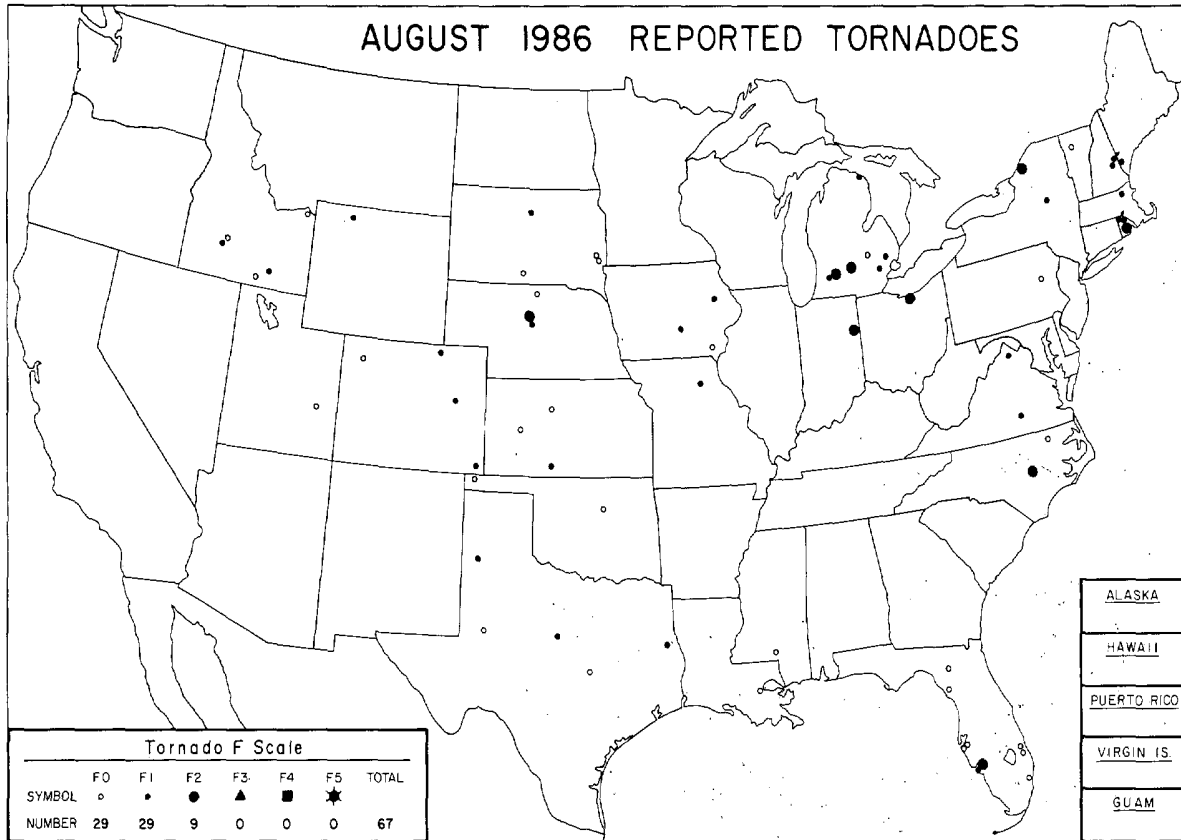
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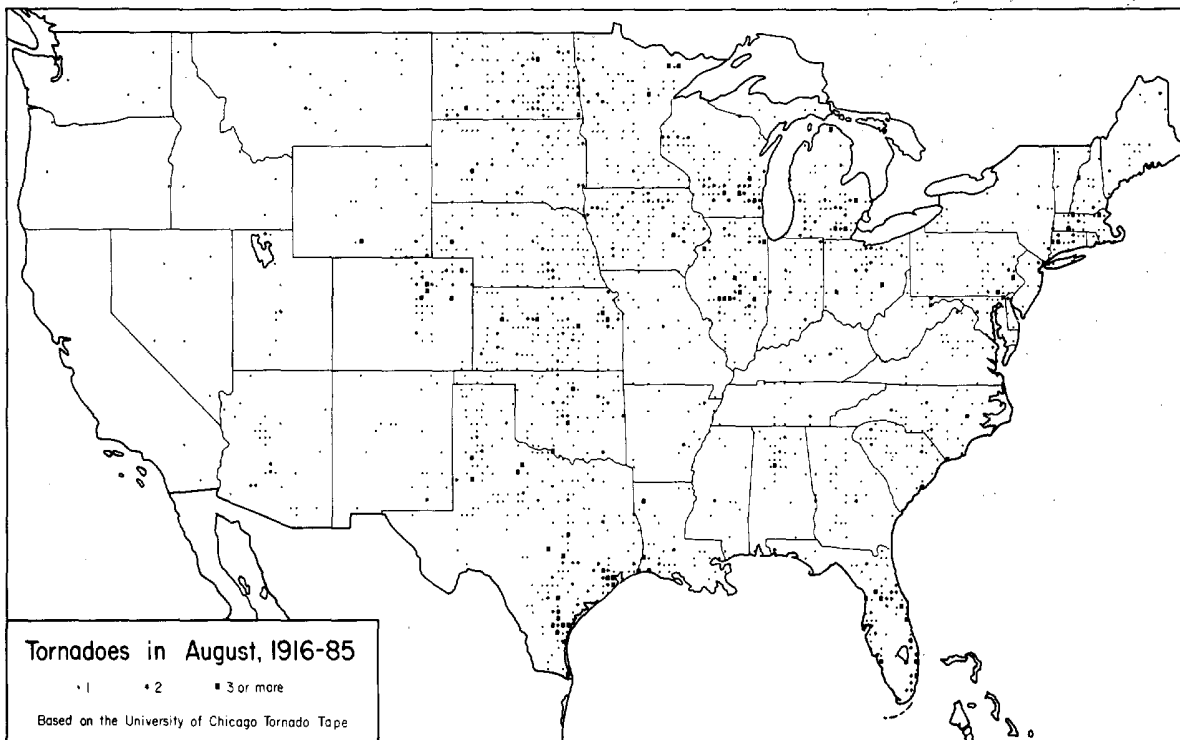
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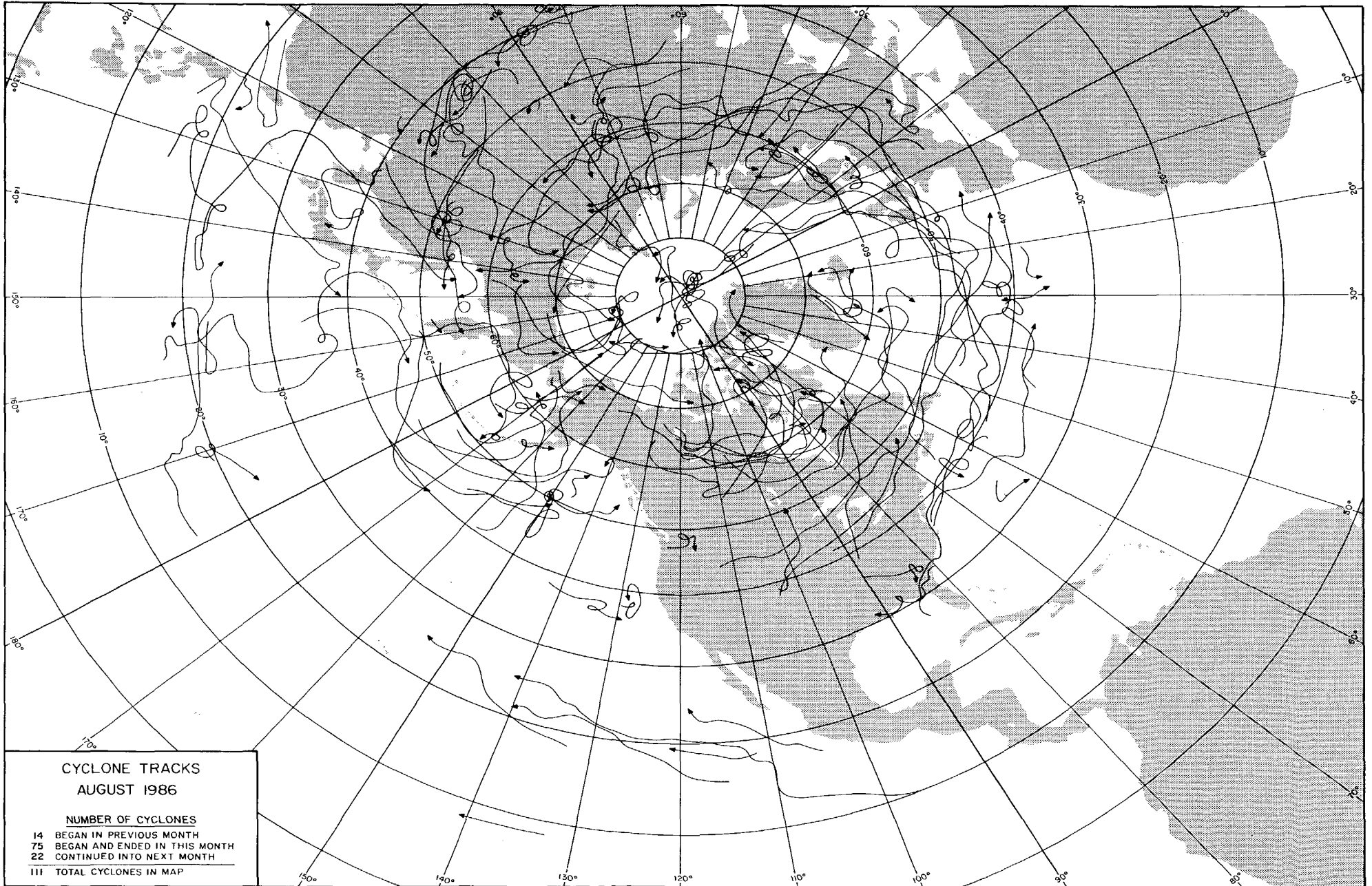
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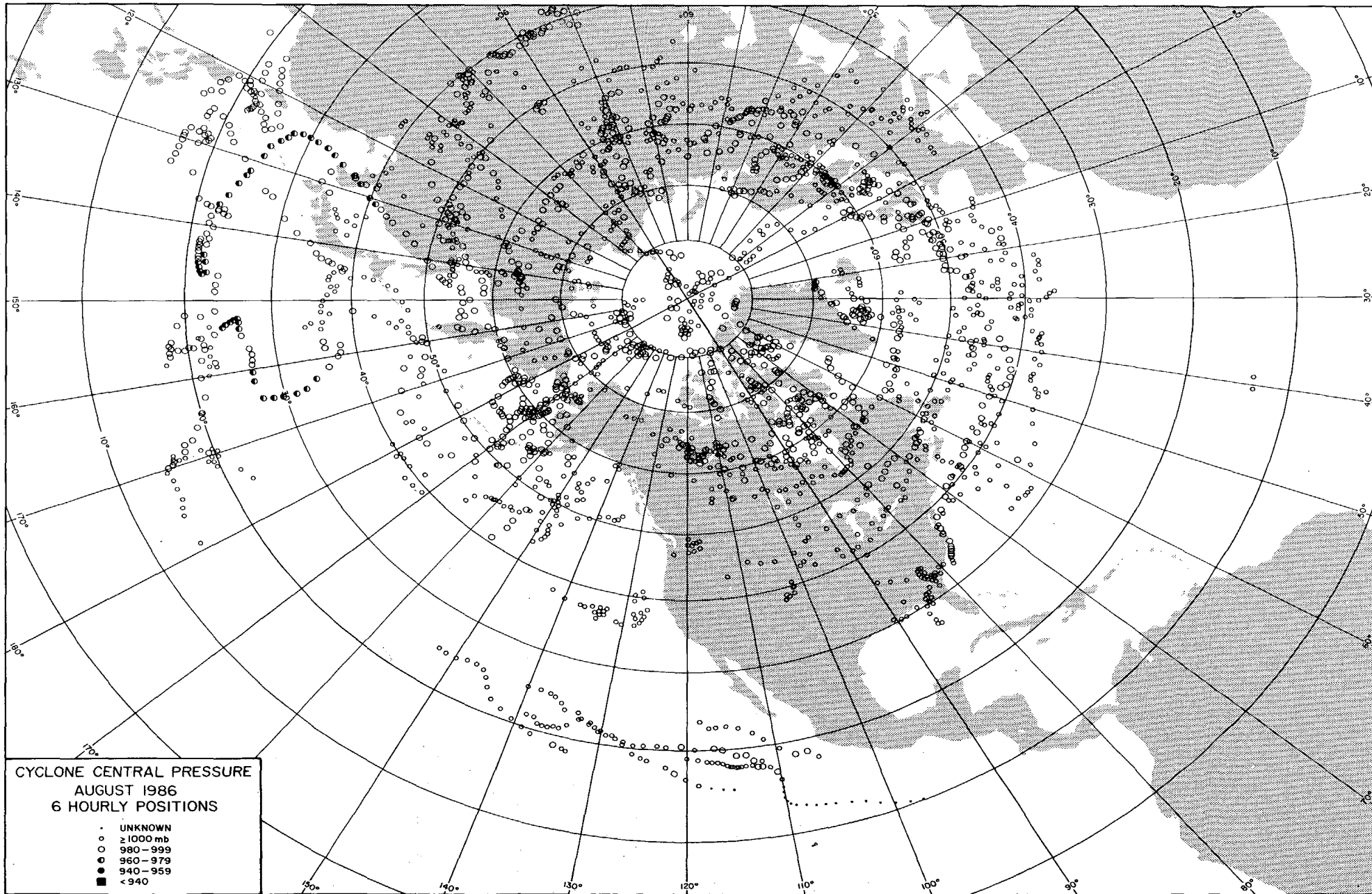
OUTSTANDING STORMS OF THE MONTH



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



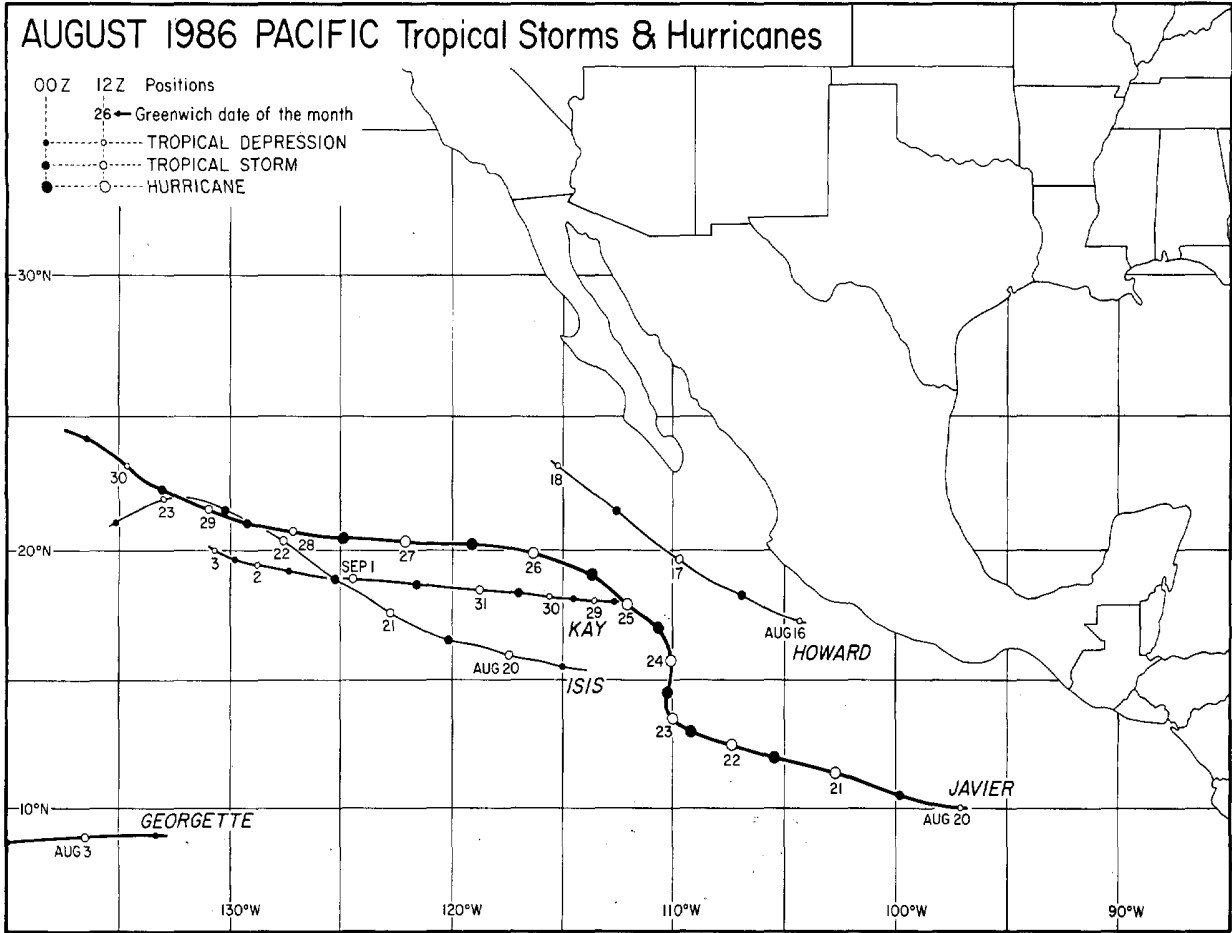




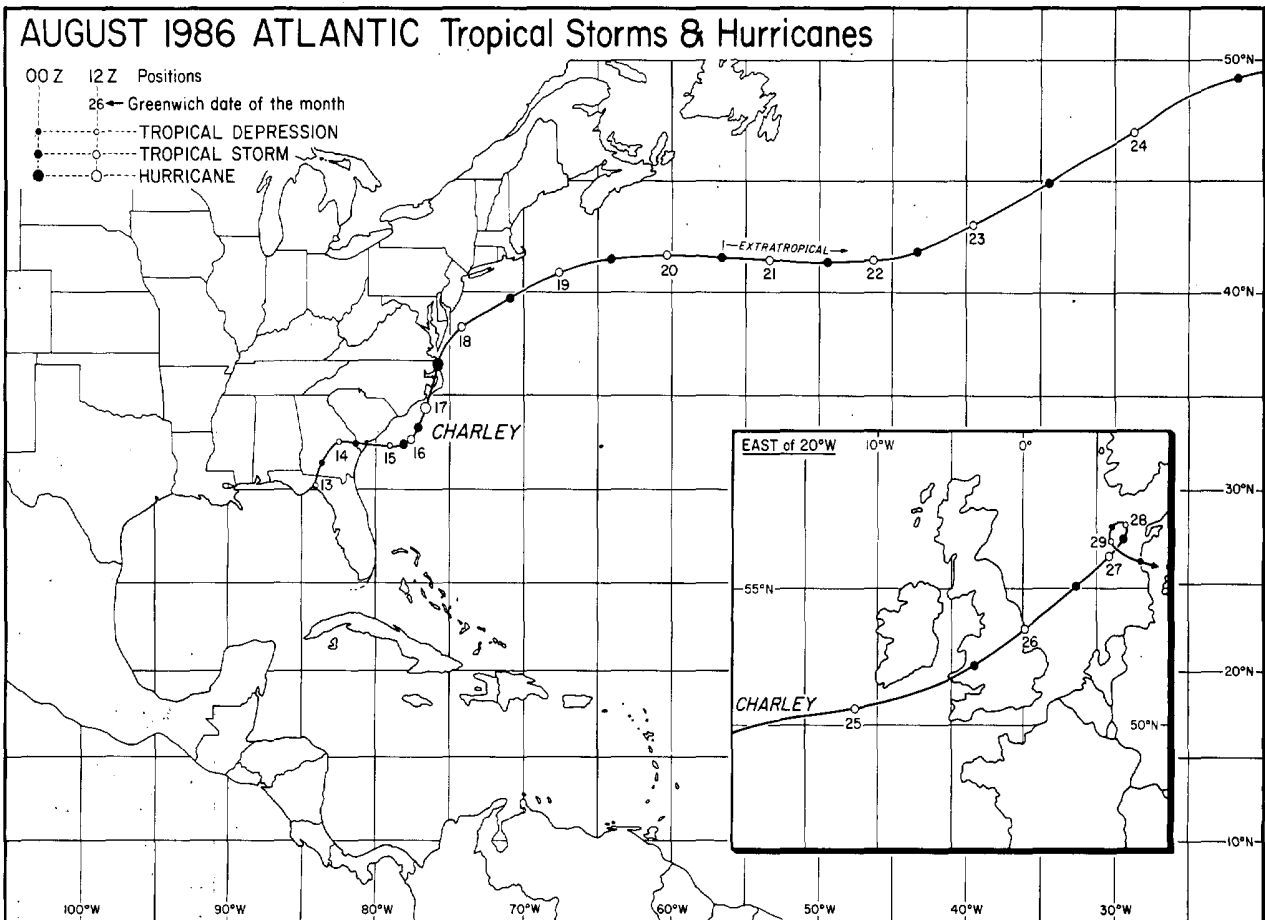
CYCLONE CENTRAL PRESSURE
AUGUST 1986
6 HOURLY POSITIONS

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

TROPICAL STORMS AND HURRICANES



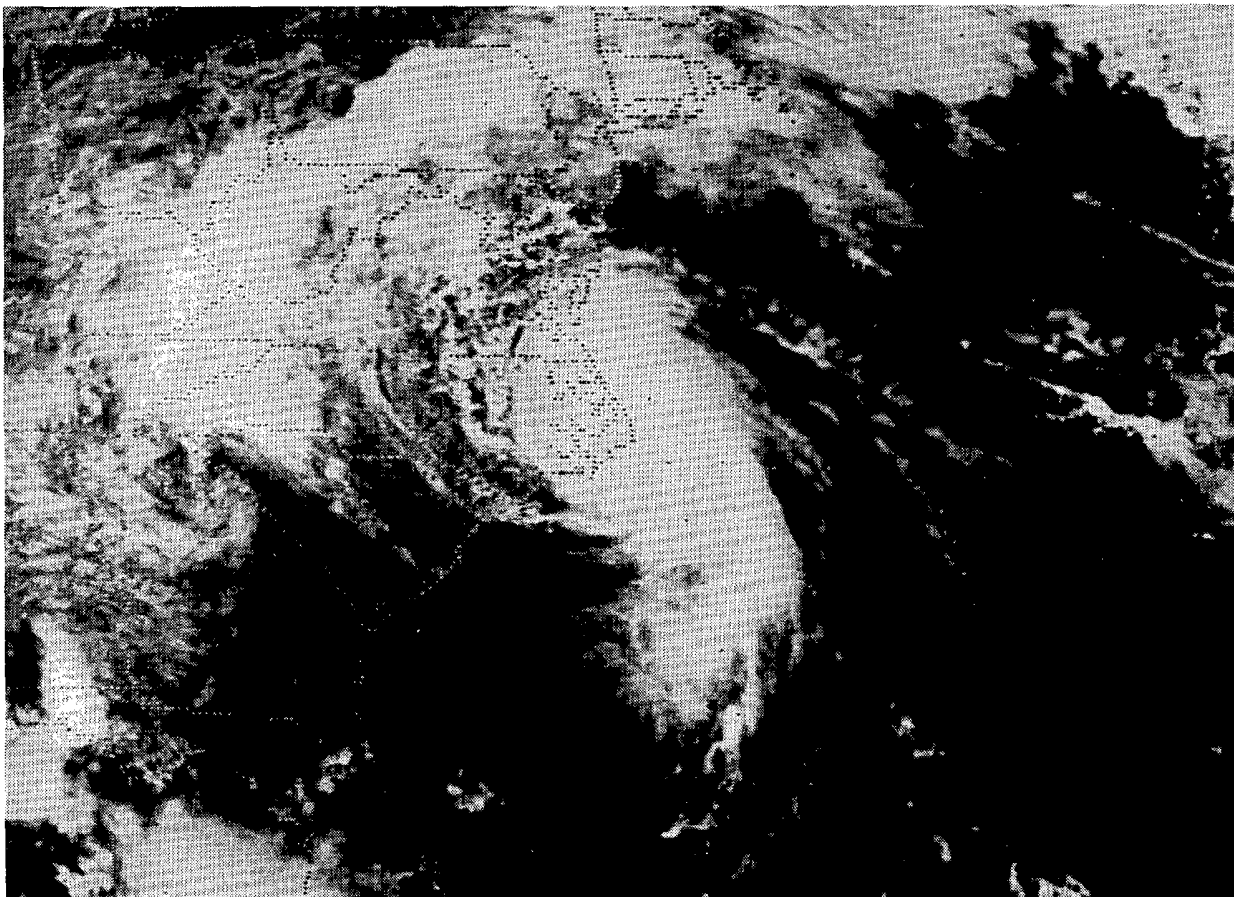
---Best track data from NWSFO, San Francisco, California.



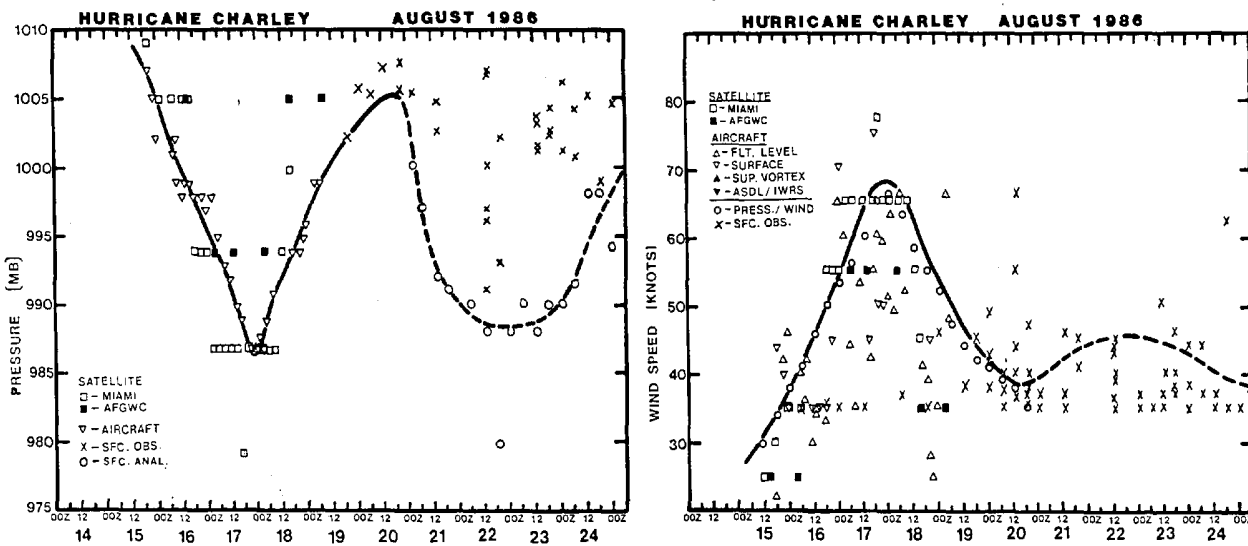
---Best track data from the National Hurricane Center, Miami, Florida.

1. HURRICANE CHARLEY, August 13-30, 1986

Hurricane CHARLEY, the third Atlantic storm of tropical origin in 1986, became the second hurricane to make landfall in the continental U.S. this season as it traversed North Carolina's Outer Banks region on August 17th and 18th. Although CHARLEY just barely reached hurricane strength, it affected a large portion of the eastern seaboard with strong winds and high tides as it moved north-northeast along the coast. Having moved well off the coast, CHARLEY became extratropical on August 21st, but remained significant by producing strong winds over a large area while moving east-northeast through the North Atlantic shipping lanes all the way to England. The storm later weakened over the North Sea (see map and inset on previous page).



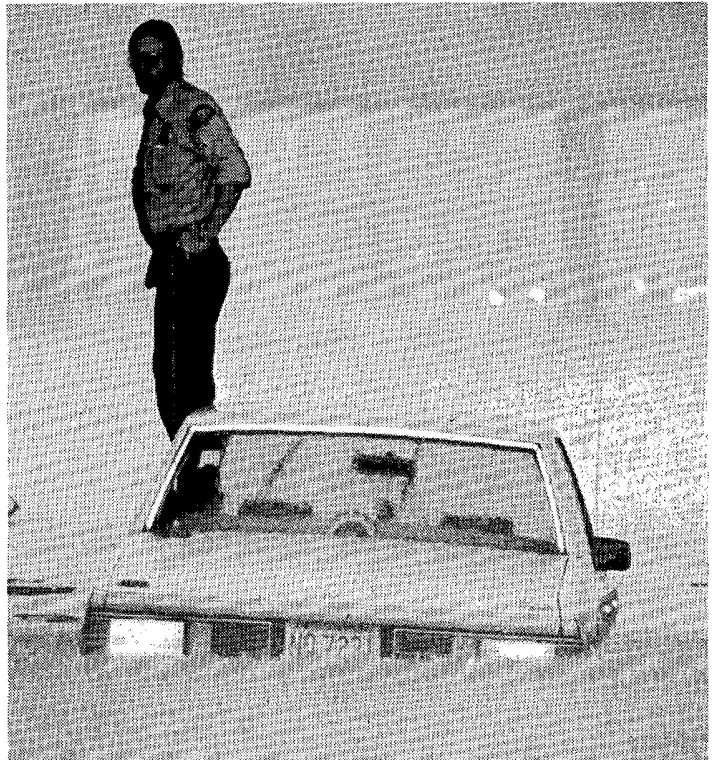
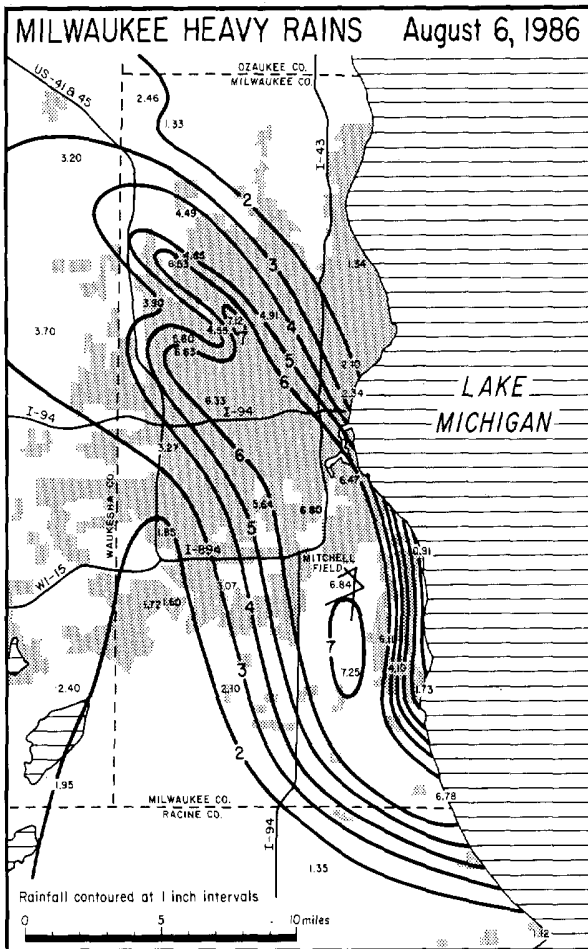
A GOES 6 satellite, visible image of CHARLEY in hurricane stage over North Carolina's Outer Banks at 1630GMT (1130EST) on August 17th. ---Photo provided by NHC.



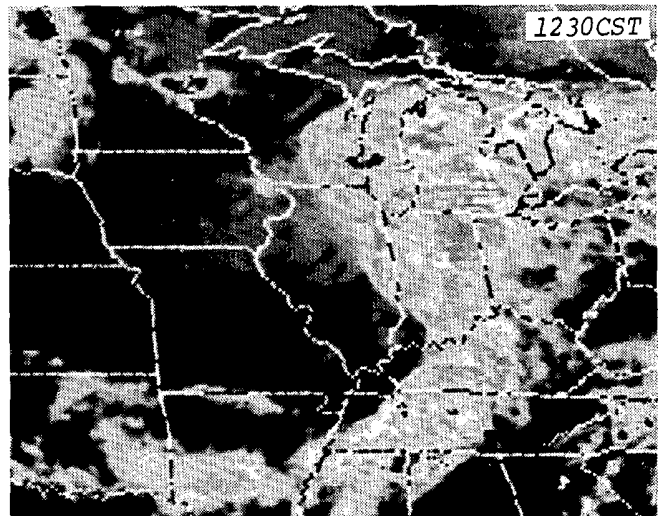
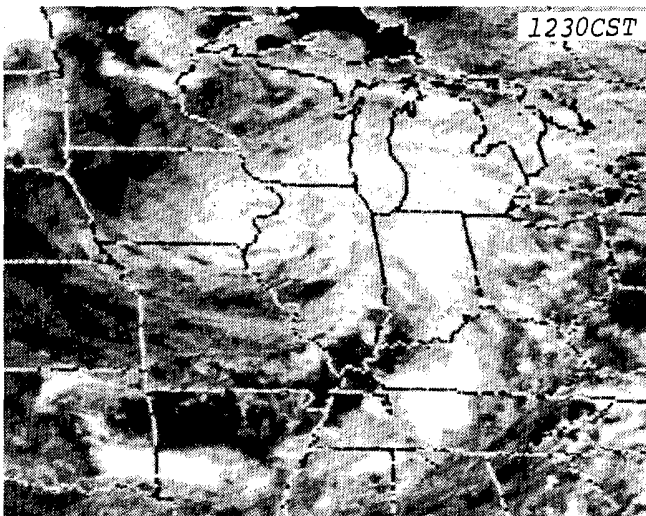
Plots of Hurricane CHARLEY's minimum sea level pressure (left) and maximum sustained surface winds (right) versus time (GMT). ---Figures from NHC.

3. HEAVY RAINS and FLOODING at MILWAUKEE, WISCONSIN on August 6, 1986

On the afternoon of August 6th, the Milwaukee metropolitan area was struck with torrential rains so heavy that all previous rainfall records for a storm duration of 5 minutes to 24 hours were broken. 5 to 7 inches fell in a short time over much of the area (see map below), causing flash flooding of tremendous proportion. 6.84 inches officially fell at General Mitchell Field, more than 5 of which fell in the first two hours. Floodwaters were 4 feet deep on the field in Milwaukee County Stadium, and filled the basement of the main terminal at the airport. About \$5.9 million in damage occurred throughout the area, \$2 million at the airport alone. The flooding also caused one death; a second death was indirectly related.



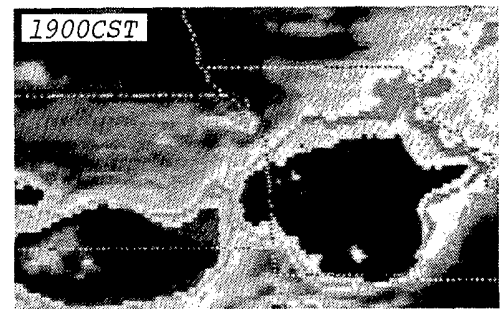
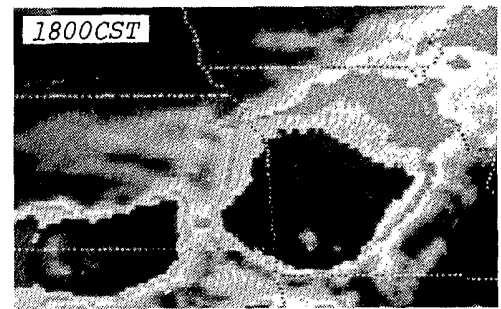
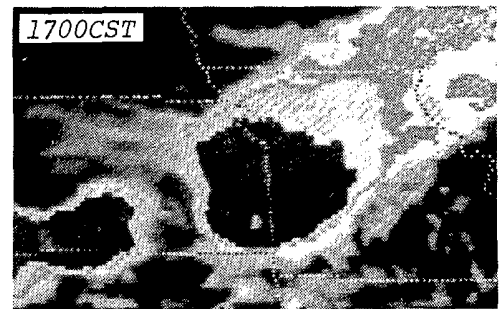
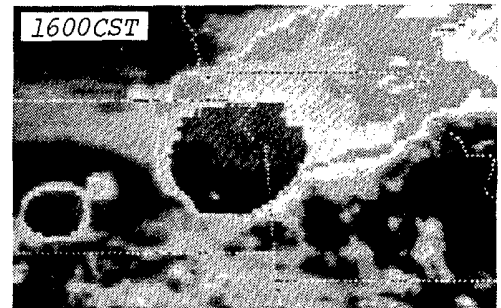
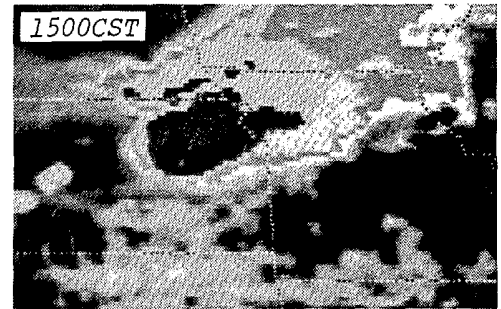
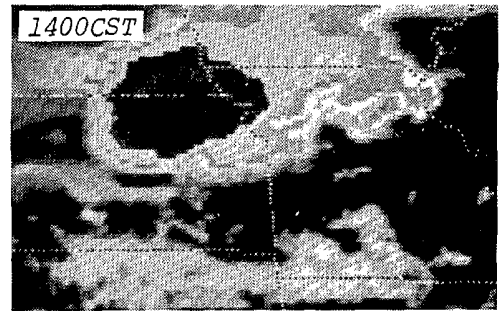
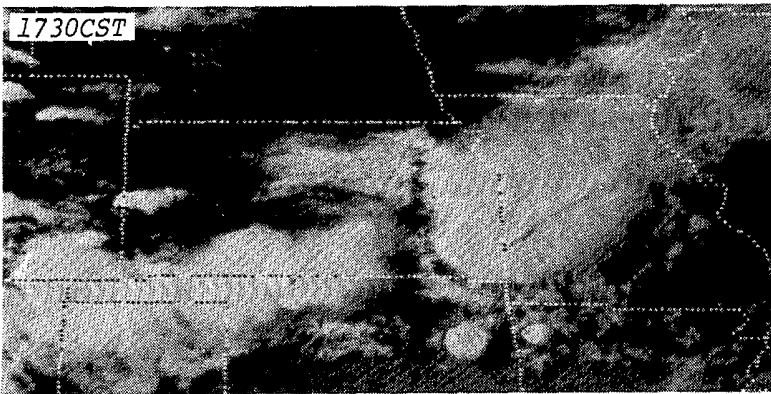
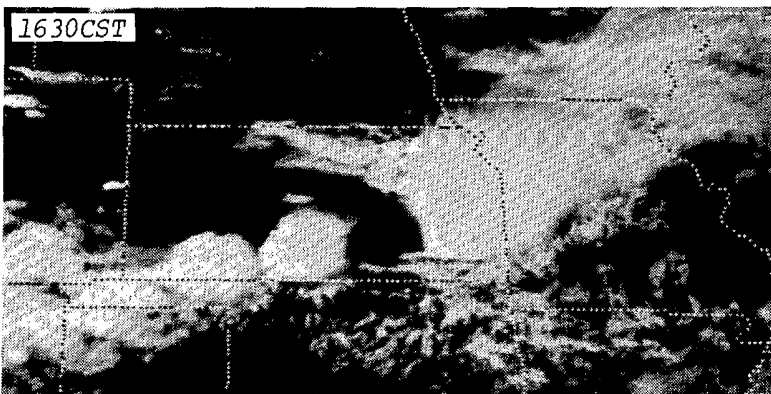
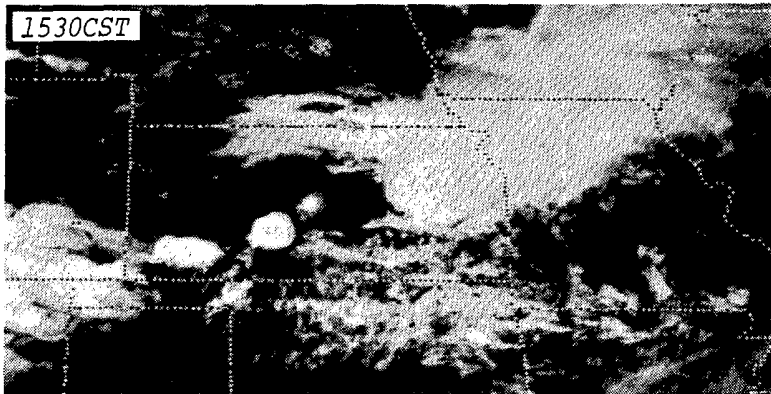
An officer stands on his car in a flooded underpass at S. First Street and Lincoln Ave. in Milwaukee as the heavy rains were in progress. ---Photo by Benny Sieu, The Milwaukee Sentinel. Photo and map (left) provided by the NWSFO at Milwaukee, Wisconsin.



GOES 6 satellite, visible (left) and infrared (right) images of the flood-producing storm which was triggered by a small low pressure system centered on the Illinois-Iowa border over the Quad Cities. ---Photos from NESDIS.

4. THUNDERSTORM WINDS in KANSAS on August 1, 1986

On the afternoon of August 1st, a powerful thunderstorm brought strong, widespread downburst winds to a large portion of eastern Kansas and southwest Missouri as it made an arcing path, first southeast and then east-southeast, from Junction City, Kansas to east of West Plains, Missouri. Wind gusts exceeded 100 mph in some areas, and the storm dropped large hail as well. In terms of total damage and areal extent, the storm was one of the worst to ever hit Kansas, causing an estimated \$71 million in damage in that state alone. The heaviest damage was within Kansas and occurred in a band through Council Grove, Emporia, Burlington, and Iola, to south of Moran. 19 injuries and no deaths occurred.



Sequences of GOES 6 satellite visible (above) and infrared (right) images show the storm's development and movement on August 1st. Note that the damaging surface winds moved with the area of coldest cloud top shown in the IR sequence, thereby relating them to the storm's strongest vertical motions. ---All photos from NESDIS.

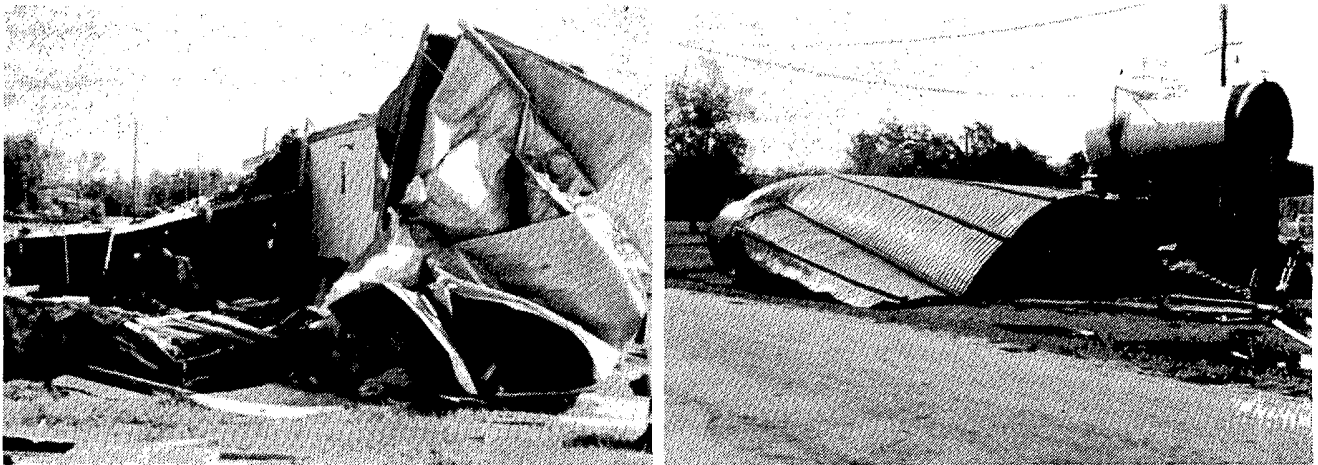


An unroofed home east of Emporia where winds were estimated to have been stronger than 80 mph. ---Photo by Marc Stratton, The Emporia Gazette.



A flattened milo field near Burlington where winds were estimated at around 100 mph. This was typical of the crop damage that occurred through much of Coffey County. ---Photo by Bern Ketchum, The Topeka Capital-Journal.

THUNDERSTORM WINDS in KANSAS ---- continued



Mobile home damage (left) and the remains of a grain bin. (right) in Burlington.



Destroyed mobile homes in Burlington (top) and southwest of the town (bottom).

---All above photos are courtesy of the Coffey County Today.

THUNDERSTORM WINDS in KANSAS ---- continued



A fifth wheel trailer that was rolled over onto a swimming pool in Iola. ---Photo by Thomas Long, The Iola Register.



Damage to the football stadium in Iola's Shepherd Park. ---Photo by Bruce Symes, The Iola Register.



Mobile homes east of Iola that were rolled by the winds. They were at a dealership and hence, not tied down. ---Photo by Bruce Symes, The Iola Register.

THUNDERSTORM WINDS in KANSAS ---- continued



A skating rink east of Iola that had its north wall blown in and part of its roof torn off. ---Photo by Bruce Symes, The Iola Register.

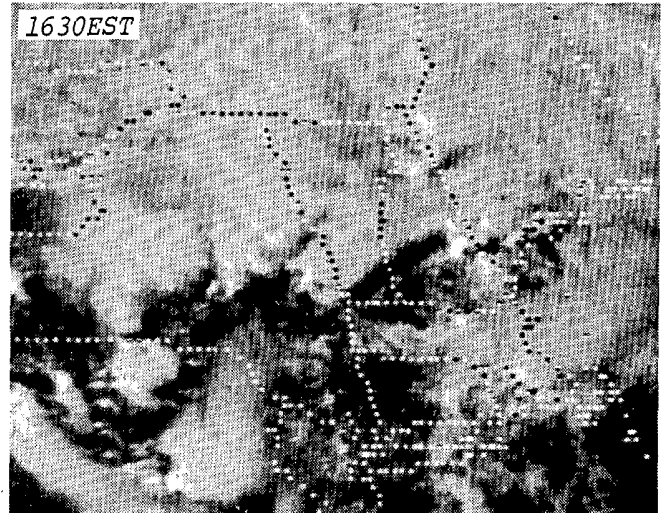
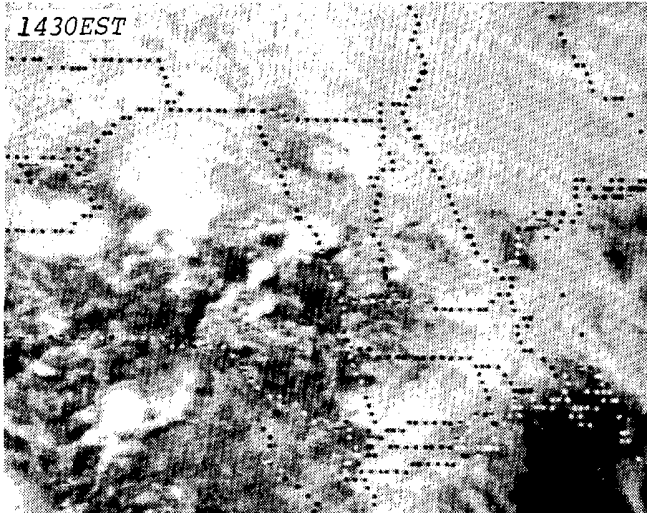


The site of a freight train derailment south of Moran where winds were estimated to have exceeded 100 mph. ---Photo by Thomas Long, The Iola Register.

---All photos on pages 11 through 14 were provided by the NWSFO at Topeka, Kansas.

5. TORNADOES in NEW ENGLAND on August 7, 1986

On the afternoon of August 7th, a rare outbreak of 7 tornadoes occurred in New England. Although most of the tornadoes were weak - 5 were rated F1 and 1 was F0 - and all were short-lived - none tracked farther than 4 miles - one carved its way through Cranston and southern Providence, Rhode Island causing F2 damage and 20 injuries along a 4 mile, intermittent path. Rhode Island had not had a tornado touch down within the state for 12 years, but with an F2 and F1 on this day and another F1 on the following morning, suddenly had 3 tornadoes touch down within a 24 hour period.



GOES 6 satellite, visible images of the tornado-producing storms over New England on August 7th. ---Photos from NESDIS.



A four-story, jewelry manufacturing building in Providence that had its top story blown off by the tornado. Debris fell onto at least 30 cars in the adjacent parking lot. The building was vacant at the time of the tornado, so no injuries occurred at the site. ---Photo from the Providence Journal and provided by the NWSFO at Boston, Massachusetts.

TORNADOES in NEW ENGLAND ---- continued

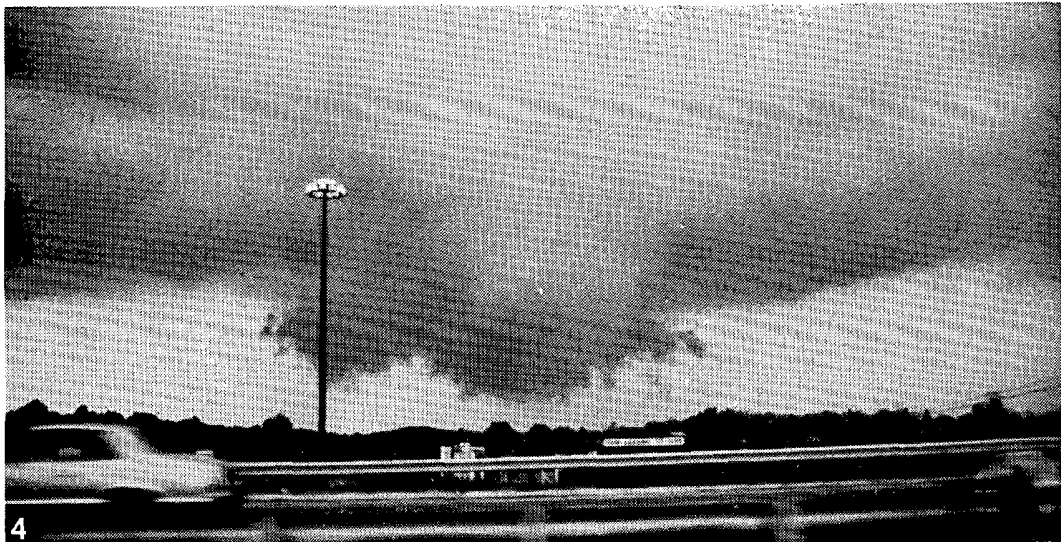
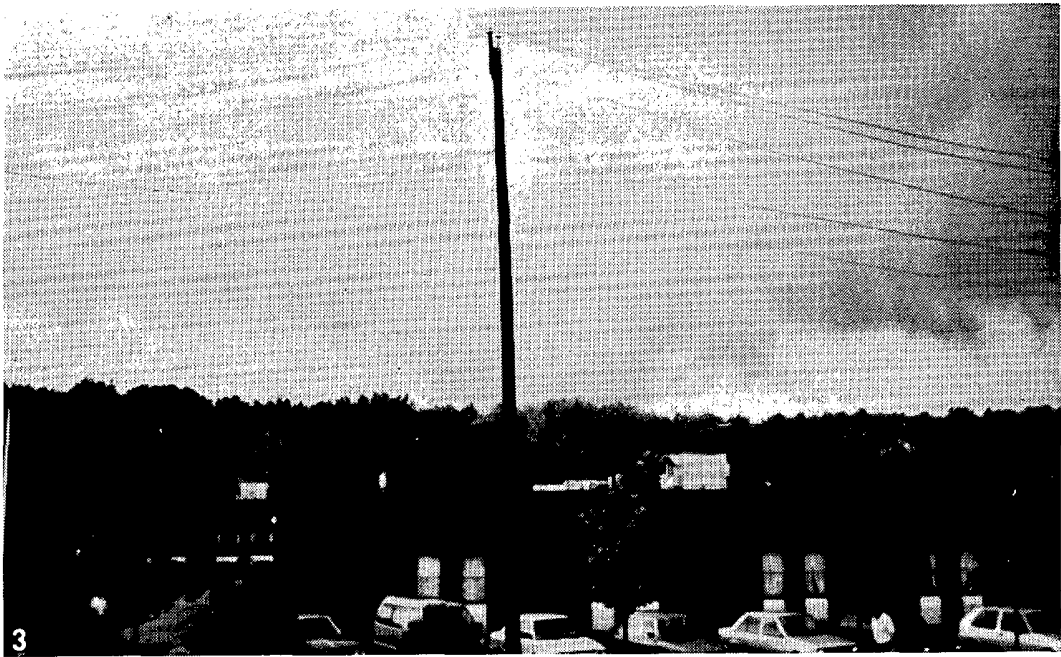
On this and the following page, a sequence of photos depicts the F1 tornado that struck Bedford, Massachusetts during the August 7th, New England Outbreak. The tornado touched down on the civilian airfield at Hanscom Field where it flipped over 3 single-engine aircraft, and then continued northeast on a 4 mile, intermittent path through a residential area of southern Bedford. Photos 1, 2 and 3, taken from Megapulse Corp. in Bedford, show the tornado just after it left Hanscom Field. The views are south-southeast in photos 1 and 2, northeast in photo 3. Photos 4 and 5 showing the wall cloud of the storm after the tornado had lifted were taken looking north from I-95 near MA-38 in Woburn, and in a northeast direction from I-95 just south of MA-129 in Wakefield, respectively.

---Photos by Jim Harkins of Lynn, Massachusetts; provided by Peter McGurk, Weather Services Corporation, Bedford, Massachusetts.

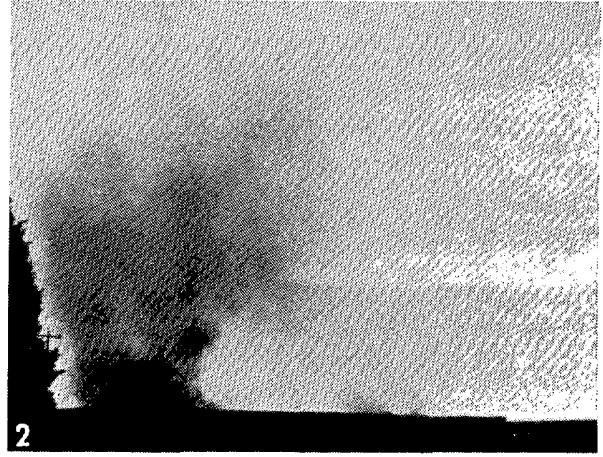
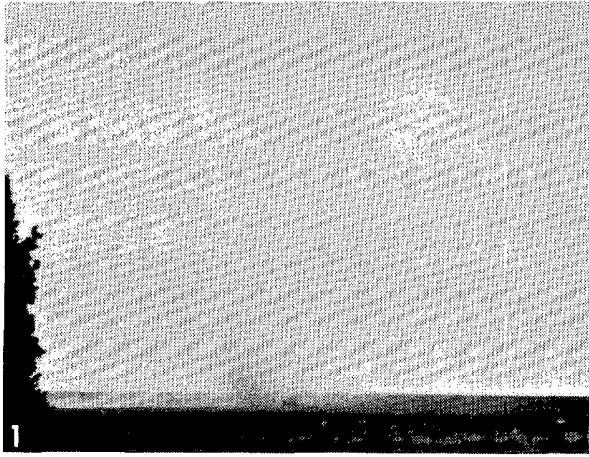


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TORNADOES in NEW ENGLAND ---- continued



6. TORNADO near MALTA, IDAHO on August 24, 1986



At about 1700MST on August 24th, a high-based thunderstorm produced a small, short-lived tornado in farm fields just northeast of Malta, Idaho. The event was captured in photos shown here by Mike Wheeler as the tornado passed by his home. Looking northeast from about 500 feet away, he observed the vortex as barely moving while drawing in debris, hay and tumbleweed during its 10 to 15 minute duration. The last photo, taken overhead after the tornado lifted, shows the remaining funnel drifting southward. ---Photos provided by Dave Miller, KIFI-TV, Idaho Falls, Idaho.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1986

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
ALABAMA									
Troy, Pike County	01	1830CST	0	2	4	0	0	0	Thunderstorm/Wind
			Damage from thunderstorm winds included awnings ripped off several buildings, store windows broken, and some trees and powerlines blown down. Lightning touched off a few small fires. Flying debris struck two people and caused minor injuries.						
Mobile, Mobile County	02	1311CST	2	0	?	?	?	?	Lightning
			Two teenagers were killed by a lightning bolt that struck a large oak tree in an open field near their homes, where they had sought refuge from a thunderstorm. Both victims were reported to have been unconscious when paramedics arrived on the scene. One was pronounced dead on arrival at a hospital and the other victim died at 0100CST August 3. Several fires were reported in the Mobile area due to lightning strikes. Lightning M160, M170.						
Mobile County	02	1330CST	0	0	3	0	0	0	Thunderstorm/Wind
	02	1335CST	0	0	3	0	0	0	Thunderstorm/Wind
	02	1351CST	0	0	3	0	0	0	Thunderstorm/Wind
	02	1410CST	0	0	?	?	?	?	Hail (0.75)
	02	1415CST	0	0	4	0	0	0	Thunderstorm/Wind
			Damage from thunderstorm winds in the Mobile area included a building struck by a falling tree around 1320CST, a business building unroofed and another building struck by a falling tree around 1335CST, and other trees downed around 1351CST. Hail to 3/4 inch in diameter was reported at 1410CST in Mobile. The roofs of several apartment units were damaged in Saraland and some wind damage was reported on Dauphin Island at 1415CST.						
Baldwin County	02	1356CST	0	0	4	0	0	0	Thunderstorm/Wind
	02	1410CST	0	0	5	0	0	0	Thunderstorm/Wind
			Thunderstorm winds damaged the roof of a building on I-65 near Bay Minette at 1355CST. Damaging winds hit Gulf Shores around 1410CST, where four airplanes were ripped from their tie-downs. Three of the planes were reported to have been damaged and one destroyed. Marble size hail was also reported.						
15E Brewton, Escambia County	02	1525CST	0	0	?	?	?	?	Thunderstorm/Wind
			Thunderstorm winds downed some trees and powerlines.						
Covington County	02	1605CST	0	0	?	?	?	?	Thunderstorm/Wind
	02	1620CST	0	0	?	?	?	?	Thunderstorm/Wind
			Trees were blown down on U.S. 29 in west Covington County around 1605CST. Large hail was reported south of Andalusia at 1620CST, where winds were estimated near 60 mph, and large tree limbs were ripped off.						
Hodges, Franklin County	07	1723CST	0	0	?	?	?	?	Hail (0.75)
			Hail to 3/4 inch in diameter was reported.						
Florence, Lauderdale County	07	1730CST	0	0	4	0	0	0	Thunderstorm/Wind
			Thunderstorm winds damaged a wall and the roof of a business building.						
Ligon Springs, SE Colbert County	07	1750CST	0	0	3	0	0	0	Thunderstorm/Wind
			Some trees were downed on a powerline and one tree was blown down on a mobile home.						
Lawrence County	07	1800CST	0	0	3	0	0	0	Thunderstorm/Wind
	07	1830CST	0	1	4	0	0	0	Thunderstorm/Wind
			Damage from thunderstorm winds across Lawrence County included farm buildings unroofed in the Courtland area around 1800CST, and a mobile home overturned near Caddo around 1830CST. A child was injured in the mobile home. Numerous trees and some powerlines were reported down in the county.						
Morgan County	07	1815CST	0	0	4	0	0	0	Thunderstorm/Wind
	07	1830CST	0	0	4	0	0	0	Thunderstorm/Wind
	07	1830CST	0	0	4	0	0	0	Lightning
			Damage from thunderstorm winds included a metal roof ripped off a building in Decatur around 1815CST and a home and a van damaged by separate falling trees in the Danville area around 1830CST. A home in the Hartselle area was damaged by a fire that resulted from a lightning strike.						
Limestone County	07	1820CST	0	0	3	0	0	0	Thunderstorm/Wind
	07	1830CST	0	0	?	?	?	?	Hail (1.75)
			Some trees and powerlines were reported down mainly in the Tanner area around 1820CST and golf ball size hail was reported in extreme SE Limestone County at 1825CST.						
Madison County	07	1850CST	0	0	3	0	0	0	Thunderstorm/Wind
			Extensive tree and powerline damage was reported in SE Huntsville.						
Cullman County	07	1900CST	0	0	4	0	0	0	Thunderstorm/Wind
			Damage from thunderstorm winds near U.S. 31, north of Cullman, included the porch torn off one home and two mobile homes damaged by a falling tree.						
Collbran Gap, DeKalb County	07	1930CST	0	0	?	?	?	?	Thunderstorm/Wind
			Trees were blown down and blocked the highway on Lookout Mountain south of Ft. Payne.						
ALABAMA									
Dallas County	08	1110CST	0	0	5	0	0	0	Thunderstorm/Wind
			Downburst thunderstorm winds hit Craig Field in Seima. Damage included a single engine airplane ripped from its tie-downs and blown some 70 feet before coming to rest upside down, roofs damaged by winds and falling trees, and a guard shack blown over.						
Colbert County	09	1515CST	0	0	?	?	?	?	Thunderstorm/Wind
			Some trees were blown down south of Muscle Shoals.						
Clay County	09	1715CST	0	0	3	0	0	0	Thunderstorm/Wind
			Thunderstorm winds damaged two barns and some chicken houses at Mellow Valley.						
Madison County	09	1915CST	0	0	5	0	0	0	Thunderstorm/Wind
	09	1927CST	0	0	4	0	0	0	Thunderstorm/Wind
			Thunderstorm winds damaged the roof of a building in Madison around 1915CST and heavy rains caused extensive damage to its contents. The roof of another manufacturing building in Madison collapsed during the heavy rain. Winds damaged a building in Huntsville around 1927CST.						
Brilliant area, Marion County	10	1740CST	0	0	2	0	0	0	Thunderstorm/Wind
			Apparent thunderstorm winds downed a few trees near Alabama 44 and one tree fell across the highway.						
Tuscaloosa County	10	1945CST	0	0	2	0	0	0	Thunderstorm/Wind
			Thunderstorm winds downed some trees and powerlines near U.S. 11, about 10 miles west of Tuscaloosa, and in the west edge of Tuscaloosa.						
Colbert County	16	1239CST	0	0	?	?	?	?	Thunderstorm/Wind
			Thunderstorm winds gusted to 62 mph at the Muscle Shoals airport at 1239CST.						
Winston County	16	1325CST	0	0	2	0	0	0	Thunderstorm/Wind
			Some trees were reported to have been blown down in the Black Pump area south of Double Springs.						
Walker County	16	1330CST	0	0	2	0	0	0	Thunderstorm/Wind
	16	1340CST	0	0	3	0	0	0	Thunderstorm/Wind
			Scattered wind damage was reported in the Jasper area at 1330CST and SE of Jasper toward Cordova around 1340CST.						
Jefferson County	16	1405CST	0	0	2	0	0	0	Thunderstorm/Wind
	16	1424CST	0	0	3	0	0	0	Thunderstorm/Wind
	16	1435CST	0	0	3	0	0	0	Thunderstorm/Wind
			Power company officials reported up to 20,000 homes were without power due to numerous trees and tree limbs being blown into powerlines as severe thunderstorms moved across the area. Most of the outages were in the SE part of the Birmingham Metropolitan area. Wind gusts, estimated by a retired meteorologist to be near 70 mph, were reported from the west part of the metro area around 1405CST, and Skywarn spotters reported gusts estimated near 60 mph in the NE part of the metro area around 1424CST. A street was reported blocked by fallen trees in the SE part of the area around 1435CST.						
Limestone County	16	1430CST	0	0	?	?	?	?	Thunderstorm/Wind
Madison County	16	1430CST	0	0	?	?	?	?	Thunderstorm/Wind
Morgan County	16	1430CST	0	0	?	?	?	?	Thunderstorm/Wind
			Thunderstorm winds downed some trees and powerlines.						
Shelby County	16	1445CST	0	0	2	0	0	0	Thunderstorm/Wind
	16	1453CST	0	0	2	0	0	0	Thunderstorm/Wind
			Some trees and powerlines were downed in the Inverness area of north Shelby County, around 1445CST and the Wilsonville area around 1453CST.						
Pell City, St. Clair County	16	1455CST	0	0	2	0	0	0	Thunderstorm/Wind
			Some trees and powerlines were downed by thunderstorm winds.						
Gadsden, Etowah County	16	1457CST	0	0	2	0	0	0	Thunderstorm/Wind
			Wind gusts to 58 mph were recorded at the Emergency Operations Center and some trees were blown down in the area.						
Piedmont, Calhoun County	15	1528CST	3	1	4	0	0	0	Thunderstorm/Wind
			A man, his wife and one of their sons were killed, and another son was seriously injured, when a falling tree crashed into the passenger compartment of their car as they drove along a city street. The tree measured some 8 feet in diameter and was described as old, but apparently solid. Wind M??V, F40V, M10V.						
Montgomery area, Montgomery County	16	1550CST	0	0	?	?	?	?	Thunderstorm/Wind
	16	1610CST	0	0	?	?	?	?	Thunderstorm/Wind
			Thunderstorm winds downed some trees in Montgomery around 1550CST, and on U.S. 31 south of Montgomery around 1610CST.						
Heflin, Cleburne County	16	1555CST	0	0	4	0	0	0	Thunderstorm/Wind
			The roof was blown off a house.						
Clay County	16	1610CST	0	0	2	0	0	0	Thunderstorm/Wind
			About 5 trees were uprooted at Millerville and some powerlines were torn down.						

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1986

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

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

ALABAMA

Helena, Shelby County	20	1530CST			0	0	4	0	Thunderstorm/Wind
Thunderstorm winds caused minor damage to two homes and uprooted 10 to 12 large trees. One car was smashed by a falling tree.									
Reform, Pickens County	20	1815CST			0	0	?	?	Hail (0.75)
Dime size hail was reported.									
Demopolis, Marengo County	20	1824CST			0	0	?	?	Hail ((0.88)
Nickle size hail was reported.									
Dallas County	25	1615CST			0	0	?	?	Thunderstorm/Wind
Thunderstorm winds downed some trees at Carlowville in extreme south Dallas County.									
Fairhope, Baldwin County	26	1445CST			0	0	3	0	Thunderstorm/Wind
Downburst winds blew the windows out of a commercial building. Occupants of the building reported that "the whole building shook" when the very localized winds hit the structure.									
Triana, Madison County	26	1510CST			0	0	?	?	Thunderstorm/Wind
Thunderstorm winds downed some trees up to one foot in diameter.									
Jefferson County	26	1700CST			0	0	4	0	Thunderstorm/Wind
	26	1716CST			0	0	?	?	Thunderstorm/Wind
Thunderstorm winds gusted to 65 mph at the Birmingham Airport around 1700CST and wind gusts estimated at 60 mph were reported in the Roebuck Plaza area of Birmingham around 1716CST. There was damage to the doors of one building and the roof of another in the Tarrant City area just west of the airport. The large, slow-moving thunderstorm produced severe cloud to ground lightning in the NE part of the metro area. Electrical equipment was damaged in several homes. An interior wall in one home was reported to have been split open by a lightning strike.									
Lineville, Clay County	26	1740CST			0	0	3	0	Thunderstorm/Wind
Some trees were reported blown down, and some lightning damage was also reported.									
Altoona, Etowah County	26	1758CST			0	0	2	0	Thunderstorm/Wind
Some trees were reported blown down.									
Morgan County	27	1300CST			0	0	?	?	Thunderstorm/Wind
Some trees were blown down just east of Hartselle.									

2 ARIZONA

Pima County	01	1700 MST			0	0	?	0	Thunderstorm Wind
Downburst winds struck downtown Tucson. Wind gusts were estimated to be between 50 and 55 MPH.									
Maricopa County	02	2100 MST			0	0	3	0	Thunderstorm Wind
Strong thunderstorms developed over the central mountains and moved to the south and west. A strong microburst formed along Carefree Highway west of I-17. Some buildings were damaged at Turf Soaring School, but several gliders within 100 yards were not damaged. Estimated winds were in excess of 65 MPH.									
Pima County	02	2100 MST			0	0	3	0	Thunderstorm Wind
Sheriff's office in Tucson reported trees and power lines downed on the northeast side of town.									
Pima County	09	2000 MST			0	0	3	0	Thunderstorm Wind
Tucson International Airport clocked winds gusting to 56 MPH. Roofs were damaged and power lines were downed in southern sections of the city.									
Gila County	10	1800 MST			0	0	2	0	Flash Flooding
Heavy thunderstorms caused rock slides along U.S. 80 west of Miami.									
Pinal County	11	1750 MST			0	0	4	0	Thunderstorm Wind
Strong winds damaged sheds, farm equipment, and roofs near Apache Junction and southeast of Chandler. Some mobile homes were overturned, trees were uprooted.									
Mohave County	11	1800 MST			0	0	3	0	Thunderstorm Wind
Strong winds downed power lines and heavy rains produced street flooding in Bullhead City.									

ARIZONA

Coconino County	13	1400 MST			0	0	4	0	Thunderstorm Wind & Flash Flooding
Very slow-moving thunderstorms persisted over most of Flagstaff for several hours. About 3 inches of rain was recorded at Pulliam Airport. Homes on the north and south side of town had water damage. Some fences were torn down. Road damage consisted of gutted shoulders and blacktop. Rock slides near I-17 forced some cars off the road.									
Yavapai County	14	1719 MST			0	0	0	0	Thunderstorm Wind
Winds were clocked at up to 67 MPH at Sedona Airport.									
Pima County	16	2300 MST			0	0	5	0	Lightning
Lightning struck a restaurant in Tucson, resulting in a fire causing extensive damage.									
Apache County	17	Afternoon			1	0	0	0	Lightning
A man was killed while walking away from a boat ramp at Hawley Lake. M280.									
Cochise County	17	2300 MST			0	0	3	0	Flash Flooding
Very heavy thunderstorms struck the Bisbee area, producing rainfall of 1.10 inches in 25 minutes. Water and rocks covered part of U.S. 80 west of the Mule Pass Tunnel. The storms ended by dawn on the 18th.									
Maricopa County	19	1900 MST			0	0	4	0	Thunderstorm Wind
Many power poles and power lines were knocked down in the Gila Bend area. A large area between Gila Bend and Ajo was left without power well into the following day.									
Yuma County	19	2000 MST			0	0	2	0	Thunderstorm Wind
Highway Patrol reported some roofs blown off in Dateland.									
Maricopa County	23	1800 MST			0	0	4	0	Thunderstorm Wind
Two airplanes were damaged and a roof was blown off a shed as a strong microburst moved east to west through the Turf Soaring School. An anemometer was blown away after it was pegged at 90 MPH. Roads in Wittmann were washed out.									
Maricopa County	23	2000 MST			0	0	3	0	Lightning
Lightning struck a transformer and sparks set fire to a nearby roof of a home in Phoenix.									
Pinal County	25	1900 MST			0	0	3	0	Thunderstorm Wind
Police in Apache Junction reported power lines down due to strong winds. Roofs were torn off, became airborne, and cut through the power lines.									
Maricopa County	26	1858 MST			0	0	2	0	Thunderstorm Wind
A few branches and trees were downed in Circle City. 2.60 inches of rain fell in one hour.									
Cochise County	27	0845 MST			0	0	2	0	Flash Flooding
Over 2 inches of rain fell in Sunsites-Pearce area in about 3 hours. U.S. 666 flooded, with many cars washed off the road.									
Pinal County	27	2000 MST			0	0	2	0	Flash Flooding
Maricopa County									
McCartney Road near Casa Grande flooded. A spotter in Tempe recorded 1.16 inches of rain in just 30 minutes; Apache Junction had .50 inches in 30 minutes.									
Maricopa County	28	2000 MST			0	0	5	0	Lightning, Thunderstorm Wind
John C. Lincoln Hospital in Phoenix had to evacuate patients as lightning struck a transformer and resulted in a fire. Lightning also knocked out electricity to Humana Hospital in Phoenix. Winds up to 70 MPH knocked down trees and power lines in a large area between Scottsdale and Glendale. A Glendale spotter recorded 3.36 inches of rain in 3 hours. Many streets flooded on the town's north side. One area north of Camelback Mountain had 5.53 inches of rain from the storm.									
Maricopa County	29	2130 MST			0	2	5	0	Thunderstorm Wind
Severe thunderstorms struck east Mesa, with most of the damage at a large mobile home park on Baseline Road. Some power poles were knocked down.									
Yavapai County	31	1250 MST			0	0	0	0	Funnel Cloud
A small funnel cloud was sighted over Chino Valley, north of Prescott.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1986

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					KILLED	INJURED	PROPERTY	CROPS	
3 ARKANSAS									
Crittenden County	01	UNK			1	0	-	-	High Heat
									The Arkansas Health Department reported a death in the county due to high temperatures - an 80-year old female.
Baxter County	01	2010CST			0	5	5	-	Thunderstorm Wind
									An auction house in Gasville was unroofed by strong winds, injuring 3 persons. A dozen vehicles were damaged as well by debris from the roof. In nearby Mountain Home, a bait company was unroofed as well as a house. A boat dock was destroyed on Bull Shoals Lake in the Theodosia area. Approximately at the same time, a tractor-trailer rig was overturned on Veterans Memorial Bridge, 7 miles east of Mountain Home, crossing Lake Norfork. Two persons in the truck were injured.
Fulton County	01	2040CST			0	0	-	-	Hail (1.50")
									Walnut-sized hail fell at Salem.
Marion County	01	2040CST			0	0	-	-	Thunderstorm Wind
									The State Police reported tree limbs blown down in Buffalo Point, with trees and power lines down at unspecified areas of the county.
Izard County	01	2045CST			0	0	-	-	Thunderstorm Wind
	01	2045CST			0	0	-	-	Hail (unknown)
									Trees fell across Arkansas Highway 56 between Calico Rock and Brockwell. At the same time, 3 vehicles received hail damage on Highway 9, south of Melbourne.
Searcy County	01	2055CST			0	0	-	-	Hail (0.75")
	01	2055CST			0	0	?	-	Lightning
									Three-quarter-inch diameter hail fell at Marshall. Also, lightning started a house fire eight miles north of Marshall.
Fulton County	01	2100CST			0	4	?	-	Thunderstorm Wind
									Four persons were injured in Mammoth Spring as homes were unroofed and trees were knocked down.
Sharp County	01	2100CST			0	0	?	-	Thunderstorm Wind
									A large tree fell on a home near Hardy. Trees, utility poles, and power lines were blown down throughout the area.
Stone County	01	2105CST			0	0	-	-	Thunderstorm Wind
									The Sheriff's Office reported trees and power lines down at several parts of the county.
Independence County	01	2125CST			0	0	-	-	Thunderstorm Wind
									Personnel from the airport at Oil Trough reported clocking winds at 64 MPH. Trees and power lines were knocked down in Batesville and other parts of the county.
Lawrence County	01	2130CST			0	0	?	-	Thunderstorm Wind
									Trees and power lines were blown down in Hoxie and Walnut Ridge, as well as in the western section of the county.
Randolph County	01	2130CST			0	0	-	-	Thunderstorm Wind
									Trees were blown down in Pocahontas.
Van Buren County	01	2138CST			0	0	-	-	Hail (1.00")
									One-inch diameter hail fell at Clinton.
Jackson County	01	2155CST			0	0	-	-	Hail (1.00")
	01	2155CST			0	0	?	-	Thunderstorm Wind
									Trees and power lines were blown down in Newport, Tuckerman, and Swifton. A tractor-trailer rig was blown off Highway 67, 3 miles south of Newport.
Crittenden County	01	2255CST			0	1	4	-	Thunderstorm Wind
									A mobile home in West Memphis was damaged heavily by a falling tree. The tree unroofed a large portion of the home and trapped a seven-year-old boy in his bedroom for one hour. The boy had a minor cut requiring eight stitches.
— ARKANSAS									
Benton County	02	0030CST			0	0	-	-	Hail (1.75")
									Golfball-size hail fell between Gentry and Siloam Springs, according to the Highway Department.
Benton County	02	0100CST			0	0	-	-	Thunderstorm Wind
									The Siloam Springs Fire Department reported power outages and trees knocked down.
Crawford County	02	0115CST			0	0	-	-	Thunderstorm Wind
									The Van Buren Fire Department reported trees were uprooted and power lines blown down, as well as damage to small outbuildings.
Sebastian County	02	0123CST			0	0	-	-	Thunderstorm Wind
									Wind gusts were clocked up to 60 MPH at the Fort Smith Weather Office. Some tree and roof damage was reported in Fort Smith.
Madison County	02	0130CST			0	0	?	-	Thunderstorm Wind
									The Sheriff's Office reported power lines and trees down across streets in Huntsville. Several cars were damaged by the falling trees.
Boone County	02	0135CST			0	0	-	-	Thunderstorm Wind
									The Sheriff's Office reported downed trees blocking roads in Harrison.
Johnson County	02	0215CST			0	0	?	-	Thunderstorm Wind
									The Arkansas State Police reported minor roof damage to their Clarksville office.
Franklin County	02	0230CST			0	0	?	-	Thunderstorm Wind
									The Civil Defense reported damaged roofs and uprooted trees, along with small hail, in Ozark.
Faulkner County	02	0315CST			0	0	-	-	Thunderstorm Wind
									The police department reported power lines down in Conway.
Pulaski County	02	0327CST			0	0	-	-	Thunderstorm Wind
									A tree was blown down in western Little Rock according to a report from the public, near the intersection of Markham Street and Shackelford Road.
Logan County	02	0330CST			0	0	-	-	Thunderstorm Wind
									The Civil Defense reported trees and power lines down at Caulksville.
Howard County	04	1300CST			0	0	3	-	Dust Devil
									An unusually strong circulation developed on a clear, hot, and calm summer afternoon. The dust devil tore off 36 feet of tin roofing from a poultry house in Athens. Tree branches were torn off and carried away by the whirlwind.
Washington County	05	2345CST			0	0	4	-	Lightning
									Lightning struck a Fayetteville home. About 50% of the second floor was destroyed by the ensuing blaze.
Washington County	06	0010CST			0	0	6	-	Thunderstorm Wind
									A severe thunderstorm caused extensive damage in Gem, near Lincoln, by unroofing one home and damaging the roof of another. Two mobile homes and two poultry houses were destroyed. Sheds, carports and other structures were also damaged. Wind gusts of 58 MPH were recorded at the Fayetteville airport.
Greene County	07	1310CST			0	0	4	-	Thunderstorm Wind
									Gusts unroofed a tin shed and damaged an aluminum building and a saw mill in Halliday, about 5 miles north of Paragould. Damages at the saw mill alone were estimated between \$8,000 and \$10,000.

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4 ARKANSAS									
White County	07	1330CST	0	1	6	-	-	-	Thunderstorm Wind
<p>Wind gusts around 70 MPH demolished eight hangars at the Searcy Airport. Six planes were damaged and six others were destroyed. Trees and power lines were knocked down all across Searcy. One man was injured when a tree fell on his home. Several homes had roof damage, and several businesses had broken plate-glass windows. Many utility poles were knocked down. About the same time, winds blew down trees in Judsonia.</p>									
Jackson County	07	1520CST	0	1	?	-	-	-	Thunderstorm Wind
<p>Gusts were clocked at 100 MPH at the Newport Airport. Three hangars were destroyed. At least 6 aircraft were severely damaged. Two families from Diaz had to seek temporary shelter because their apartments were unroofed. Trees and power lines were blown down in Diaz, Grubbs, and Newport. Some buildings were blown down in Diaz.</p>									
White County	13	UNK	1	0	-	-	-	-	High Heat
<p>The Arkansas Health Department reported a death in the county due to high temperatures - an 83-year-old male.</p>									
White County	15	UNK	1	0	-	-	-	-	High Heat
<p>The Arkansas Health Department reported a death in the county due to high temperatures - a 62-year-old female.</p>									
Cleburne County	27	1435CST	0	0	?	-	-	-	Thunderstorm Wind
<p>Trees and power lines were blown down near Quitman, according to the State Warning Point.</p>									
Prairie County	27	1505CST	0	0	?	-	-	-	Thunderstorm Wind
<p>Wind gusts were clocked at 82 MPH at the Stuttgart Airport, just south of Slovak. There was unspecified damage to hangars.</p>									
4 CALIFORNIA, Northern — NONE REPORTED									
4 CALIFORNIA, Southern									
CAZ013 San Bernardino County	12	1355PST	0	0	?	0	0	0	Thunderstorm
<p>Highway 18 was closed between Lucerne Valley and Baldwin Lake for eleven hours for the removal of hundreds of tons of silt and boulders.</p>									
CAZ013 Riverside County	18	unknown	0	0	?	0	0	0	Thunderstorm
<p>A roadway was washed out in southern Joshua Tree National Monument, north of Interstate 10.</p>									
CAZ018 Riverside County	19	1739PST	0	0	?	?	?	?	High Winds
<p>Minor flooding occurred and strong winds blew down several palm trees in Palm Springs. The Palm Springs airport reported winds of up to 55 knots.</p>									
CAZ018 Riverside County	21	1700PST	0	0	?	0	0	0	High Winds
<p>Southern California Edison engineer reports indicated that eight transmission towers were downed in the vicinity of Blythe. Winds were estimated at greater than 90 mph.</p>									
CAZ013 San Bernardino County	25	1505PST	0	0	?	0	0	0	Thunderstorm
<p>Quarter size hail fell on the city of Big Bear. Minor flooding was reported by the rangers office.</p>									
CAZ019 San Bernardino County	26	unknown	0	0	?	0	0	0	Thunderstorm
<p>Street flooding occurred in the town of Essex. Route 66 was closed in the afternoon and U.S. Highway 95 was closed for 2 hours west of Needles.</p>									
CAZ019 Kern County	27	1600PST	0	0	?	0	0	0	Thunderstorm
<p>The Mojave sheriff reported minor urban flooding. 1/2 to 1 inch of rain fell in one hour.</p>									
CAZ018 Riverside County	27	1710PST	0	0	?	0	0	0	Thunderstorm
<p>Minor flooding occurred in Sky Valley.</p>									
5 COLORADO									
Baca County	1	1442MST	1	40	0	0	0	0	Tornado (F1)
<p>A tornado touched down 10 miles southeast of Springfield. FFP111</p>									
El Paso County	1	1910MST	0	0	0	0	0	0	Hail
<p>1 1/2 inch hail fell in Colorado Springs, along with heavy rain that caused some street flooding.</p>									
Southwest Colorado	1	evening	0	0	?	4	?	?	Heavy rain, Hail
<p>Heavy rain drenched the Arkansas River Valley from the La Junta area east to the Kansas border. 2 to 5 inches of rain poured down in Otero County in the Cheraw area; hail damaged nearby corn crops. Later in the evening, around 2 inches of rain fell in about an hour at Lamar and Holly. 150 city blocks were flooded in central Lamar, and both principal highways through the city, U.S. 50 and 287, were closed.</p>									
El Paso County	2	0055-0110MST	0	0	4	0	0	0	Heavy rain
<p>1.35 inches of rain fell in just 15 minutes at Colorado Springs with widespread street flooding. Water was several feet deep in some intersections. There were also power outages, and one house suffered \$15,000 water damage in the basement.</p>									
Front Range	2	1300-2100MST	0	6	7	7	?	?	Svr. tsms.
<p>A major outbreak of severe thunderstorms occurred along the Front Range of Colorado from the Wyoming border south to the Palmer Divide between Denver and Colorado Springs. Thunderstorms developed explosively and moved rapidly southeastward, pummeling many areas with large hail and heavy rain. Many spots, including Fort Collins, Longmont, and Commerce City, were hit with large hail twice.</p> <p>Hail caused widespread damage to homes and cars in Fort Collins, Longmont, Platteville, Windsor, and many other cities and towns in Larimer, Boulder, and Weld Counties. Thousands of acres of corn and other crops were destroyed in those counties. Crop damage in Weld County alone spread over 144,000 acres and totaled an estimated 25 million dollars.</p> <p>Western Adams County was also hit hard; hail broke car windows on Interstate 25 west of Brighton, and the large stones broke windows in Thornton. Baseball size hail damaged several planes near Watkins.</p> <p>Torrential rain fell in southwestern Weld County during the evening, especially around Fort Lupton and Platteville, and contributed along with the hail to the massive crop damage in the area. Almost all north-facing windows in Platteville were broken, and power was out in the town for two hours. Six people, including two policemen, were injured by the large hailstones in Longmont. Total damage from the storm was estimated at about 70 million dollars, about equally distributed between property and crop damage.</p> <p>The following severe weather reports accompanied the thunderstorms along the Front Range on August 2nd:</p> <p><u>Time MST</u></p>									
1316	3/4 inch hail fell 3 miles NW of Bennett in central Adams County.								
1410-1426	Golfball size hail fell near Byers in eastern Arapahoe County.								
1520	1 inch hail fell at Beulah in southwest Pueblo County.								
1523	1 inch hail fell at Carter Lake in southeast Larimer County.								
1526	1 1/2 inch hail fell near Agate in northeast Elbert County.								
1530	Golfball size hail fell at Watkins in western Adams County.								
1535	Golfball size hail fell 8 miles NW of Longmont in northeast Boulder County. A man on a tractor was slightly injured.								
1545	Ping pong ball size hail fell at Bellview in eastern Larimer County.								
1545-1600	Golfball to baseball size hail fell in Longmont, damaging cars.								
1555	Golfball size hail fell at Fort Collins in eastern Larimer County.								
1610	Ping pong ball size hail fell in downtown Fort Collins. 1 1/2 inch hail fell at the Colorado State University campus in town.								
1615	3/4 inch hail fell 10 miles E of Red Feather Lakes in eastern Larimer County.								
1615-1620	2 inch hail fell at I-25 and Colorado Highway 7 in extreme northwest Adams County.								
1617	1 1/2 to 2 inch hail fell on I-25 between Lafayette and Brighton in extreme northwest Adams County.								
1633	Golfball size hail fell 5 miles S of Brighton in northwest Adams County.								
1654	Golfball size hail fell just east of Aurora in western Adams County.								
about 1700	Numerous funnel cloud sightings were reported around Aurora.								
about 1700	3/4 inch hail fell in Wellington in southeast Larimer County.								

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					KILLED	INJURED	PROPERTY	CROPS		
COLORADO										
	1705									Golfball size hail fell at Platteville in southwest Weld County.
	1712									3/4 inch hail fell in Fort Collins in southeast Larimer County.
	1715									Golfball size hail fell in Commerce City in western Adams County.
	1716									1 1/2 inch hail fell in Timmath in southeast Larimer County.
	1730									3/4 inch hail fell in Lafayette in southeast Boulder County.
	1740									1 inch hail fell near Elizabeth in western Elbert County.
	1812									3/4 inch hail fell just N of Longmont in northeast Boulder County.
	1832									1 1/2 inch hail fell near Erie in extreme southwest Weld County.
	1835									3/4 inch hail fell at Buckeye in eastern Larimer County.
	1850-1855									1 inch to golfball size hail fell in Northglenn in western Adams County.
	about 1900									1 1/4 inch hail in Thornton damaged vehicles in a mobile home park. Thornton is in western Adams County.
	1911									1 inch hail fell 3 miles E of Fort Collins.
	1914									Golfball size hail fell in Commerce City in western Adams County.
	1914									1 inch hail fell in Fort Collins.
	1915									3/4 inch hail fell at Denver's Stapleton Airport.
	1915									1 1/2 inch hail fell in Timmath in southeast Larimer County.
	1915									Baseball size hail fell at the Fort Collins airport.
	1925									1 1/2 inch hail fell 4 1/2 miles S of Parker in north-east Douglas County.
	1955									3/4 inch hail fell just east of Aurora in western Arapahoe County.
	1955									2.24 inches of rain fell in 25 minutes at Platteville in southwestern Weld County; 1.12 inches fell in 10 minutes.
	2030									Hail over 1/2 inch in diameter covered the ground to a depth of 3 to 4 inches at Hudson in southwest Weld County.
Weld County	2	1850MST	.0.7	30	0	0	3	0		Tornado (F1) A tornado touched down 4 miles northeast of Briggsdale and damaged a barn roof. FPP101
El Paso County	3	1520-1550MST			0	0	3	0		Svr. tsrms. A thunderstorm produced a wind gust of 60 mph 3 miles west of Peyton at 1520MST. 1 inch hail fell 10 miles northeast of Colorado Springs at 1530MST. Lightning caused power outages in the city, and there was some street flooding.
Lincoln County	3	1648MST	1/2	30	0	0	0	0		Tornado (F1) A tornado touched down briefly 2 miles east of Limon. FPP101
Yuma County	3	1800-1825MST			0	0	0	0		Tstm. winds A thunderstorm produced wind gusts estimated at 60 mph at Idalia.
Weld County	4	1350MST			0	0	0	0		Tstm. winds A gust of 58 mph was recorded at Briggsdale.
Mesa County	4	1619MST			0	0	0	0		Tstm. winds A gust of 60 mph was noted at Grand Junction.
Pueblo County	8	2019MST			0	0	0	0		Tstm. winds A gust of 63 mph was recorded at Pueblo airport. There were a few power outages in the western suburbs of the city.
Pueblo County	10	1516MST			0	0	0	0		Hail 1 inch hail fell at Pueblo.
Elbert County	10	1825MST			0	0	0	0		Hail 1 inch hail fell 5 miles northeast of Limon.
Baca County	14	0334MST			0	0	0	0		Hail Golfball size hail fell just north of Springfield.
Adams County	14	1450MST			0	0	0	0		Hail 1 inch hail fell at Strasburg.
El Paso County	14	1450MST			0	0	0	0		Hail, Heavy rain 3/4 inch hail fell in the western part of the Colorado Springs area. 1.54 inches of rain fell in one part of town, and there was local flooding. To the west of the city, 4 inches of snow fell on the summit of Pikes Peak.
Gunnison County	17	1730MST			0	0	0	0		High winds A gust of 70 mph was recorded at Gunnison.
COLORADO										
Moffat County	20	1515MST	1/2	20	0	0	0	0		Tornado (FO) A tornado touched down for about two minutes in a wheat field 20 miles southwest of Craig. FPP001
Larimer County	21	1430MST			0	0	4	0		Lightning Lightning caused widespread power outages in Fort Collins.
El Paso and Pueblo Counties	21	1830-2000MST			0	0	4	0		Svr. tsrms. A thunderstorm dropped up to 3 inches of rain in the Colorado Springs area. In Palmer Park, 2 inches fell in just 35 minutes. There was widespread street flooding, stranding some cars and damaging several roads. 3/4 inch hail fell at 1835MST. The storm moved south into Pueblo, producing a gust of 61 mph at 1941MST and over an inch of rain.
Sedgwick County	25	evening			0	0	4	0		Lightning Lightning started a fire at a nursing home in Julesburg, causing heavy damage.
El Paso County	31	1400MST			0	0	0	0		Hail 3/4 inch hail piled up 3 inches deep at Black Forest; the area received 3/4 inch of rain in 20 minutes.
6 CONNECTICUT										
Fairfield County	07	Afternoon			0	0	3	0		Lightning and Heavy Rain About 5,500 electric customers lost power in the area as heavy thunderstorms brought many lightning strikes. Two houses were hit by lightning in Bridgeport, causing minor damage. Street flooding occurred and was especially heavy in the Stamford area.
Fairfield, New Haven, Middlesex, New London and Windham Counties	08	Morning-Afternoon			0	0	4	3		Lightning and Thunderstorm Winds Heavy thunderstorms knocked out electric power to some 30,000 subscribers statewide, with lightning strikes responsible for most of the outages. In Plainfield, thunderstorm winds tore a barn apart at 0930EST. In Baltic, thunderstorm winds downed trees and power lines and destroyed a carport. Also, in Plainfield, 120 acres of corn were flattened by the storm. Most of the effects of the storms were felt from the southwest portion of the state to the eastern portion. A barn was destroyed by a lightning-ignited fire in Baltic.
Litchfield County	24	All day			0	0	3	0		High Winds High winds gusting to 40 to 50 MPH knocked down trees and branches, snapping power lines and resulting in power outages to several thousand electric customers.
7 DELAWARE										
Sussex County	17	1200-1900EST			0	0	4	0		Hurricane 75 mph winds from Hurricane Charley caused minor building damage and 3 to 4 foot sand erosion along beaches.
8 FLORIDA										
Pinellas Co.	01	1300EST			0	1	0	0		Lightning A 59 year old woman was struck and injured by lightning while standing on Treasure Island Beach.
Citrus Co.	01	1700EST			0	0	3	0		Thunderstorm wind High wind destroyed a back porch, and several trees and power lines were downed by high wind.
Manatee Co.	01	1715EST	1.0	30	0	0	2	0		Tornado (FO) A farm shed was blown apart by a tornado in Samoset.
Manatee Co.	01	1915EST	0.5	30	0	0	2	0		Waterspout-Tornado (FO) A waterspout came ashore in Bradenton Beach and damaged several sailboats.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1986

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
— FLORIDA									
Suwanee Co.	02	UNK			0	0	3	-	Thunderstorm wind
									High wind blew down a greenhouse.
Monroe Co.	02	0900EST			0	1	0	0	Lightning
									A 26 year old man was injured when lightning struck a tree under which he was standing.
Escambia Co.	02	1215CST			0	0	-	-	Hail (0.75)
									Hail 0.75 inches in diameter was reported in North Pensacola.
Indian River Co.	03	1730EST			1	0	0	0	Lightning
									A 33 year old woman sought shelter from a thunderstorm under a tree and was killed when lightning struck the tree.
Duval Co.	04	1430EST			0	1	-	-	Lightning
									A man working near a tree was injured by either lightning or debris from the tree when the tree was struck by lightning.
Collier Co.	05	1510EST			0	0	-	-	Thunderstorm wind
									Wind gusting to 56 knots was recorded.
Okaloosa Co.	08	1530EST			0	0	4	-	Thunderstorm wind
									High wind destroyed a large storage building four miles north of Baker.
Lee Co.	09	1630EST	1.5	200	0	12	6	-	Tornado (F2)
									Twelve people suffered minor injuries in a tornado. Forty homes suffered major structural damage and 117 homes were damaged in Cape Coral and North Fort Myers.
Pinellas Co.	10	1700EST			0	0	3	-	Thunderstorm wind
									High wind ripped the roof off a mobile home and downed trees and power lines.
Dade Co.	11	0200EST			0	0	2	-	Thunderstorm wind
									High wind blew the roof off a mobile home, and six other mobile homes suffered minor damage.
Columbia Co.	12	1615EST	1.0	30	0	0	0	0	Tornado (F0)
									A tornado was sighted just southwest of Lake City. It caused damage to several trees.
Osceola Co.	14	1600EST			0	4	3	-	Thunderstorm wind
									High wind blew over four recreational vehicles.
Levy Co.	25	1447EST	1.0	30	0	0	1	0	Tornado (F0)
									A tornado downed trees and power lines.
Lee Co.	25	1755EST	6.0	50	0	1	6	-	Tornado (F1)
									A tornado severely damaged three homes and damaged thirty other homes by blowing off the roofs or destroying screen enclosures. One person was injured. The tornado was in Cape Coral.
Atachua Co.	26	1800EST			1	0	0	0	Lightning
									A 44 year old man was killed by lightning while he loaded baggage onto an airplane at Gainesville Regional Airport.
Citrus Co.	26	1915EST			0	0	4	-	Lightning
									Lightning started a fire which damaged a home.
Palm Beach Co.	28	1015EST			1	0	0	0	Lightning
									A 26 year old man was killed by lightning while standing under a tree.
Broward Co.	28	1200EST	1.0	30	0	0	3	-	Tornado (F0)
									A tornado damaged three house roofs and screen enclosures and uprooted several trees in Lauderdale.
— FLORIDA									
St. Lucie Co.	28	1315EST	1.0	30	0	0	3	-	Tornado (F0)
									A tornado damaged a house and destroyed a screened patio.
Martin Co.	28	1320EST	1.0	30	0	0	4	-	Tornado (F0)
									A tornado was sighted as it went through a palm nursery.
Polk Co.	30	1530EST			0	0	2	-	Thunderstorm wind
									The roof of a mobile home was damaged by high wind. A carport roof was also destroyed.
Manatee Co.	31	1700EST			0	0	3	-	Thunderstorm wind
									High wind blew the roof off of a back porch.
Monroe Co.	31	2235EST			0	0	-	-	Thunderstorm wind
									A wind gust to 54-knots was recorded at Cudjoe Key air station.
9 GEORGIA									
Cobb County	01	0100-0300EST			0	0	5	0	Lightning
									At least seven fires were caused by intense lightning in Cobb County. A workshop was destroyed, four houses were damaged, a motel damaged, and several businesses in the top floor of a business building gutted by the fires.
Fulton County	01	0130EST			0	0	4	0	Thunderstorm winds
									Thunderstorm winds downed trees in scattered locations across the northern Atlanta Metropolitan area. Unusually frequent lightning strikes knocked power out in many areas.
Bartow County	01	0145EST			0	0	5	0	Lightning
									Lightning caused fires that destroyed a mobile home and heavily damaged a church and a business in Cartersville.
Clayton County	01	0200EST			0	0	4	0	Thunderstorm winds
									Thunderstorm winds partially unroofed a motel along I-75 in northern Clayton County. Debris from the roof fell on several parked cars.
Lowndes County	01	1645EST			0	0	5	0	Thunderstorm winds
									Thunderstorm winds estimated at 60 to 80 mph downed around 200 trees in Valdosta. Damage to a hospital alone was estimated at \$100,000. Power line damage was extensive in the area. 15 homes were damaged by falling trees.
Wilkinson County	01	1730EST			0	0	?	0	Thunderstorm winds
									Power lines were downed and trees uprooted and blown across streets by thunderstorm winds in Irwinton.
Laurens County	01	1800-1815EST			0	0	5	0	Thunderstorm winds
									Hundreds of trees were uprooted and blown down in Dublin. Doors were blown off a fire station and the roof damaged. A wooden, customer drive-through at a bank collapsed onto a car.
Cook County	01	1815EST			0	0	?	0	Thunderstorm winds
									Thunderstorm winds downed trees and power lines just east of Adel.
Echols County	01	1900EST			0	0	?	?	Thunderstorm winds
									Several pecan and sycamore trees were blown down 8 miles southwest of Statesville.
Scriven County	01	1930EST			0	0	4	0	Thunderstorm winds
									Thunderstorm winds damaged a house, a mobile home and several farm sheds 3 miles southwest of Sylvania in the Goloid community.
Wheeler County	01	1935EST			0	0	?	?	Hail (0.75)
									Hail 3/4 inch in diameter fell briefly in Alamo.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

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					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	
GEORGIA											
Telfair County	01	1940EST		0	0	?	?				Thunderstorm winds, Hail (1.75)
				Golf ball size hail fell briefly near Lumber City and thunderstorm winds uprooted a few trees in Lumber City.							
Jeff Davis County	01	2000EST		0	0	?	?				Thunderstorm winds
Appling County	01	2030EST		0	0	?	?				Thunderstorm winds
				Trees were downed in scattered areas in these counties due to strong thunderstorm winds. Power lines were also downed in a few locations, some were knocked out by the falling trees. Damage appeared to be most numerous in Appling County. There were several reports of damage to roofs, equipment sheds, and a silo.							
Lowndes County	02	1530EST		0	0	4	0				Thunderstorm winds
				Three mobile homes were heavily damaged and a storage shed was destroyed by thunderstorm winds 7 miles southeast of Valdosta. Trees were also downed in the area and several homes had roof damage.							
Wilton County	06	1320EST		0	0	?	0				Thunderstorm winds
				Thunderstorm winds downed trees east of Highway 11 south of Good Hope.							
Greene County	06	1400EST		0	0	?	0				Thunderstorm winds
				Trees were uprooted and roofs damaged in Siloam by thunderstorm winds.							
Camden County	06	1600EST		0	0	4	0				Thunderstorm winds
				Several mobile homes were damaged and a wall blown out of a warehouse by thunderstorm winds in St. Marys.							
Henry County	07	1430EST		0	0	?	0				Thunderstorm winds Lightning
				Thunderstorm winds downed trees and power lines in the Locust Grove area. Seven fires were caused by lightning. One barn was destroyed.							
Greene County	11	1400EST		0	0	?	0				Thunderstorm winds
				Several trees were downed and a few roofs damaged by thunderstorm winds near Siloam.							
Floyd County	16	1815EST		0	0	?	0				Thunderstorm winds
				Thunderstorm winds downed trees and power lines near Cave Springs in the southern part of the county.							
Cobb County	16	1815EST		0	0	?	0				Thunderstorm winds
North Fulton County	16	1830EST		0	0	?	0				Thunderstorm winds
Forsyth County	16	1845EST		0	0	?	0				Thunderstorm winds
Gwinnett County	16	1900EST		0	0	?	0				Thunderstorm winds
				Trees were downed at scattered locations from eastern Cobb County near Marietta to north of Lawrenceville in Gwinnett County. One tree fell on a car in Roswell. A few power lines were downed as well, some by falling trees.							
Hall County	16	1920EST		0	0	?	0				Thunderstorm winds
				Winds to 60mph occurred along Lake Lanier on the north side of Gainesville.							
Pulaski County	25	1545EST		0	0	?	0				Thunderstorm winds
				Several trees were downed by thunderstorm winds across Highway 341 near Hawkinsville.							
10 IDAHO											
Fremont County	09	1700MST	0.5	10	0	0	0	0	0	0	Tornado (F0)
				A brief tornado west of Egin near Nine Mile Knoll caused no damage.							
Elmore County	10	late afternoon	2.0	20	0	0	4	0	0	0	Tornado (F1)
				A tornado in the Pasadena Valley east of Glenns Ferry scattered hay from two hay stacks and demolished a 14' x 70' trailer.							
ID2004 Cassia County, Oakley and Bostetter	23	late afternoon			0	0	4	5			Hail (0.4), Flash Flood, Lightning
				A thunderstorm produced hail 3 inches deep at Warm Springs south of Oakley, causing severe damage to grain and potato fields and gardens in the area. 2 inch deep hail was reported at Bostetter where flash flooding also occurred. Lightning hit the TV antenna at Ray Anderson's residence at Oakley, traveled down the antenna, and set bushes on fire. A TV and radio were blown out and damage was done to a phone and the house wiring. The bush fire set the eaves of the house on fire.							
IDAHO											
Cassia County	24	1700MST	0.5	50	0	0	0	0	0	0	Tornado (F0)
				A tornado east of Malta near I-84 touched down briefly and caused no damage.							
Power County	24	1700MST	0.5	20	0	0	0	0	0	0	Tornado (F1)
				A tornado in the far western edge of the county touched down briefly and caused no damage.							
ID2003 Bingham County	24	2230MST			0	0	0	4			Lightning
				Lightning set fire to haystacks between Rockford and Springfield, causing the destruction of about 400 tons of hay.							
ID2007 Camas County	29	1200-1300MST	1.0	20	0	0	0	0	0	0	Tornado (F0)
				A tornado was sighted by the public six miles east of Hill City. No damage was reported.							
ID2008 Lewis, Idaho, and Clearwater Counties; Kamiah, Cottonwood and Greencreek areas	29	1430-1530PST			0	0	6	5			Flash Flood Thunderstorm Wind
				A severe thunderstorm produced a 6 to 12 foot wall of water, mud, and rocks on Highway 62 which washed two vehicles off the road and closed the highway between mileposts 14 and 18. Many basements, garages, and a few businesses were flooded in the area. Winds estimated at up to 70 mph and small hail ripped screens off houses, blew roofs and sides off of barns, and did extensive damage to crops. Residents' rain gages recorded anywhere from 1.5 to 3.5 inches of rain in less than 30 minutes.							
ID2003 Butte County, Arco and Butte City areas	29	1600MST			0	0	4	5			Severe Thunderstorm, Flash Flood, Hail (0.75-1.00)
				Torrential rains and large hail flooded sections of Highways 20/26 and 33 with up to 18 inches of water. Traffic was disrupted for hours. An official Arco rain gage measured 1.53 inches of rain and unofficial gages recorded up to 2.5 inches. Windrowed hay was washed down fields and piled beside fences along Highway 20/26.							
ID2004 Cassia County, Oakley	29	late afternoon			0	0	4	0			Flash Flood
				Six inches of water flooded the streets in Oakley and power was out for over an hour.							
ID2008 Latah County, Moscow	29	1800-1900MST			0	0	3	0			Flash Flood
				Thunderstorm rains sent more than 2 feet of water through the streets of Moscow which lapped at doorways. Police closed a main intersection in downtown Moscow until the water receded.							
ID2004 Caribou and Bannock Counties	29	evening			0	0	3	5			Flash Flood, Lightning, Hail
				Lightning destroyed two computer printers and burned out telephones and three telephone master boards in Grace. Hail caused crop damage and water washed out the road between Treasureton and Downey.							
ID2ALL Statewide		Monthlong									Lightning
				Numerous dry lightning episodes started hundreds of forest and range fires which charred thousands of acres throughout the state during the month of August.							
ILLINOIS											
Cook Co., South, west, and north suburban	26	1420-1500CST			0	0	3	0			Tstm. wind (45)
				50 mph thunderstorm winds toppled many trees and pulled down powerlines in many suburban Chicago locations, causing power outages to 12,000 residents.							
De Kalb Co., Genoa	26	1500CST			1	0	0	0			Lightning
				Lightning struck and killed a grounds worker at the Ellwood Golf Course. M160							

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					KILLED	INJURED	PROPERTY	CROPS	
12 INDIANA									
Floyd Co., SNW Clarksville	07	1615 EST			0	0	3	0	Tsta. wind
			A stockade fence and some trees were blown down.						
Floyd Co., New Albany	07	1635 EST			0	0	2	0	Tsta. wind
			Trees measuring 10 to 12 inches wide and standing 50 feet tall were downed by strong thunderstorm winds.						
North-Central Indiana	26	0800- 2000 EST			0	0	2	?	Lightning
			Three separate lines of thunderstorms moved through North-Central Indiana, causing at least three fires and numerous power outages.						
Boone Co., Whitestown	26	1240 EST			0	0	2	0	Tsta. wind
			An unusual report from a local residence described strong winds blowing open the back door and shattering a window, following which the refrigerator doors were blown open and its contents sucked out while a 30-pound beagle sitting on the couch was thrown out the front door. Also, trees were damaged nearby.						
Noble Co., Albion	26	1742 EST			0	0	2	0	Tsta. wind (52)
			The sheriff's department reported 60 mph winds. Also, several trees were blown down across the northern part of the county.						
Huntington Co., Huntington	26	1833 EST			0	0	2	0	Tsta. wind (52)
			A spotter in Huntington reported 60 mph winds. Also, trees and power lines were downed in Bippus.						
Howard Co., Greentown	26	1840 EST			0	0	2	0	Tsta. wind
			Strong thunderstorm winds downed trees near Greentown and New London.						
Allen Co., INW Fort Wayne	26	1850 EST			0	0	2	0	Tsta. wind (52)
			A spotter reported 60 mph winds just northwest of Fort Wayne. Also, several trees and telephone poles were downed by high winds in the eastern part of the county.						
Wells Co., Ossian	26	1857 EST			0	0	4	0	Tsta. wind
Northern Wells Co.	26	1912 EST			0	0	2	0	Tsta. wind
			Several barns were blown down and a house was damaged near Ossian. At 1912 EST, several trees were reported across the road in northern Wells County.						
Grant Co., Numerous locations	26	1906 EST			0	0	3	0	Tsta. wind
			The sheriff reported trees and lines down across the county.						
Adams Co., SNW Decatur	26	1906 EST 5	0.1	0	0	2	6	5	Tornado (F2)
6NE Decatur	26	1915 EST			0	0	4	0	Tsta. wind
			A tornado touched down in northwestern Adams County and damaged 20 homes, 12 extensively. Two people were hospitalized. Damage was estimated at 4 million dollars, of which 3 million was private damage and 1 million public damage. The tornado followed the path of the St. Mary's River for a short time, dropping about 500 trees in the river. The path began approximately 5 miles northwest of Decatur and ended 5 miles north of Decatur. Shortly after that, a trailer was destroyed by high winds 6 miles northeast of Decatur.						
Hamilton Co., INE Hone Place	26	1925 EST			0	0	2	0	Tsta. wind
			Strong winds downed 3 trees.						
Blackford Co., 6N Hartford City	26	1935 EST			0	0	4	0	Tsta. wind
			A barn was damaged and several silos were destroyed by high winds.						
Jay Co., Numerous locations	26	1945 EST			0	0	3	0	Tsta. wind
			The sheriff's department reported trees and lines down across the county.						
INDIANA									
Marion Co., Castleton	26	1945 EST			0	0	0	0	Tsta. wind
			At 40 feet above ground level, wind gusts to 60 and 68 mph were measured by equipment on towers at Castleton and Treamont in northern Marion County.						
Delaware Co., Eatons, Albany	26	1950 EST			0	0	2	0	Tsta. wind
			About two dozen trees were uprooted.						
Wells Co., 3E Bluffton	26	1955 EST			0	0	2	0	Tsta. wind
			Trees were down and blocking the road 3 miles east of Bluffton.						
Wayne Co., Richmond	26	2120 EST			0	1	3	0	Lightning
			A young man was critically injured when the car he was driving was hit by a falling tree. Witnesses said the tree had been struck by lightning.						
13 IOWA									
O'Brien County, Sheldon	01	1830 CST			0	0	0	0	Funnel Cloud
O'Brien County, Pringhar	01	1830 CST			0	0	0	0	Funnel Cloud
O'Brien County, Hartley	01	1836 CST			0	0	4	3	Wind (58+ MPH)
O'Brien County, near Hartley	01	1906 CST			0	0	0	0	Funnel Cloud
O'Brien County, Arches	01	1906 CST			0	0	4	3	Wind (58+ MPH)
O'Brien County, Paullina	01	1908 CST			0	0	4	3	Wind (58+ MPH)
			Strong thunderstorms moved from the north into O'Brien County and knocked over some trees and power lines with the winds.						
Howard County, Davis Corners	01	1815 CST			0	0	3	5	Hail (0.5)
Howard County, Howard County, 10 S Cresco	01	1830 CST			0	0	3	5	Hail (0.5)
			Small-but-persistent hail continued for about 10 minutes in a storm west through south of Cresco, damaging some corn and badly damaging the soybeans on local farms.						
Cass County, Vicinity of Atlantic	04	2115 CST			0	0	4	0	Lightning
			Several lightning strikes cut the electricity to many Cass County residents.						
Jefferson County, Fairfield	05	1700 CST	.1	15	0	0	3	3	Cold Air Tornado (F0)
			A number of witnesses observed a funnel emerge from overcast sky and touch down on a golf course, damaging trees, limbs and a flag pole.						
Delaware County, .5 N Ryan	07	1745 CST	.1	25	0	3	.4	0	Tornado (F1)
Jones County, Olin	07	1910 CST			0	0	4	3	Wind (58+ MPH)
			A small tornado knocked a motor home off the highway, demolishing the vehicle and causing minor injuries to the driver and two passengers. The storm also produced some fierce winds that brought large limbs down.						
Portawattamie County, Council Bluffs	12	2000 CST			0	0	3	0	Lightning
Carroll County, Carroll	13	Early Morning			0	0	4	4	Flash Flood
Shelby County, Harlan	13	0445 CST			0	0	4	0	Lightning
Audubon County, Elk Horn	13	0500 CST			0	0	4	0	Lightning
Decatur & southern Clarke Counties	13	Morning			0	0	4	4	Flash Flood
			Lightning strikes to power lines caused outages to a number of rural residences. Some heavy downpours (up to 6 inches) near Carroll flooded out the transmitter for the radio station, knocking it off the air. Heavy rains also brought flash floods to south-central Iowa.						
Polk County, Des Moines	13	All Day			0	0	3	0	Urban Flooding
Keokuk County, Whar Cheer	13	Afternoon			0	0	4	4	Flash Flood
			Steady rain overnight set the stage for the flooding on Coal Creek in Whar Cheer when heavier thunderstorms moved through. The daytime total of rainfall was about 6 inches. In Des Moines, 3 to 4 inches of rain almost washed out the opening of the State Fair.						
Davis County, Drakesville	13	1900 CST			0	0	5	0	Lightning
			Lightning started a fire that destroyed a house.						

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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	

IOWA

Marshall County, 1 S Laurel	14	1715 CST			0	0	4	0	Wind (58+ MPH)
Jasper County	14	1732 CST			0	0	4	0	Wind (58+ MPH)
Marion County, Painted Rock	14	1737 CST	.2	25	0	0	5	4	Tornado (F1)
Jasper County, near Monroe	14	1745 CST			0	0	0	0	Funnel Clouds
Poweshiek County, Brooklyn	14	1810 CST			0	0	4	0	Wind (58+ MPH)
Poweshiek County, Brooklyn	14	1900 CST			0	0	4	4	Urban Flooding
					Strong thunderstorms caused some damage and brought downpours that produced some flooded basements in Central Iowa. A tornado took the roof off a home at Painted Rock, 11 miles west of Pella. Numerous trees and one garage were felled by winds that struck at Brooklyn.				
Winneshago County, Buffalo Center	14	2050 CST			0	0	3	0	Lightning
					Lightning blew out a couple of junction boxes, damaged some TVs and other appliances, and cracked the plaster in a few spots in a home.				
Woodbury County, Sioux City Airport	16	2314 CST			0	0	4	0	Wind (60 MPH)
					Some intense thunderstorms moved across from Nebraska into the Sioux City area, causing some power outages and other minor damage in town due to the strong winds.				
North County, Northwood	26	0300 CST			0	0	4	4	Wind (70 MPH)
					An intense thunderstorm brought winds that felled large limbs of trees in the North County Seat. Minor power outages ensued.				
Des Moines County, Burlington	26	0455 CST			0	0	4	0	Lightning
					A bolt of lightning ignited the roof of a house, causing \$10,000 damage.				
Jackson County, Maquoketa	26	0640 CST			0	0	3	0	Wind (58+ MPH)
					A huge limb from a tree fell in thunderstorm winds and damaged the automobile onto which it fell.				

14 KANSAS

Smith Co, ONE Smith Center	01	1100CST			0	0	3	3	TSTM Wind(52kt)
Lebanon	01	1115CST			0	0	5	0	Lightning
Jewell Co, 10SW Mankato	01	1110CST			0	0	3	3	TSTM Wind(52kt)
					A line of thunderstorms moved from Smith Center toward Mankato. Strong winds damaged crops and farm buildings, and lightning burned a home to the ground at Lebanon.				
Mitchell Co, Beloit	01	1255CST			0	0	2	0	TSTM Wind(59kt)
					A thunderstorm outflow wind gust was measured at 68mph at a Beloit radio station.				
Dickinson Co, Enterprise	01	1425CST			0	0	4	3	TSTM Wind(61kt)
Geary Co, Fort Riley Airport	01	1433CST			0	0	3	0	TSTM Wind(61kt)
Morris Co, White City	01	1445CST			0	0	5	4	TSTM Wind, Hail(1.50)
Parkerville	01	1450CST			0	0	4	4	TSTM Wind, Hail(1.00)
Dwight, Council Grove Lake	01	1452CST			0	0	4	3	TSTM Wind(52kt)
	01	1457CST			0	0	5	4	TSTM Wind(71kt), Hail(.75)
Council Grove, Dunlap	01	1500CST			0	1	5	4	TSTM Wind(52kt)
Lyon Co, Near Americus	01	1515CST			0	0	4	4	Hail(1.75)
	01	1530CST			0	0	5	5	TSTM Wind(61kt), Hail(1.75)
7E Emporia	01	1540CST			0	0	6	4	TSTM Wind, Hail(1.00)
Neosho Rapids	01	1550CST			0	0	5	5	TSTM Wind(78kt), Hail(1.50)
Coffey Co, Burlington	01	1600CST			0	0	7	7	TSTM Wind(78kt), Hail(3.50)
Leroy	01	1615CST			0	18	7	7	TSTM Wind(87kt), Hail(3.50)
Anderson Co, Garnett	01	1625CST			0	0	4	4	TSTM Wind(52kt), Hail(.75)
Colony	01	1630CST			0	0	5	4	TSTM Wind(61kt), Hail(.75)
Woodson Co, Piqua	01	1630CST			0	0	5	5	TSTM Wind(87kt), Hail(.75)
Allen Co, Iola	01	1635CST			0	0	7	7	TSTM Wind, Hail(1.00)
Gas	01	1638CST			0	0	5	5	TSTM Wind
La Harpe	01	1640CST			0	0	5	5	TSTM Wind
Moran	01	1645CST			0	0	6	6	TSTM Wind, Hail(1.00)

KANSAS

Bourbon Co, Unifontown	01	1650CST			0	0	4	5	TSTM Wind
2W Fort Scott	01	1700CST			0	0	4	5	TSTM Wind(61kt), Hail(.75)
Crawford Co, Pittsburg	01	1758CST			0	0	4	5	TSTM Wind(52kt)
					A potent severe thunderstorm formed between Abilene and Fort Riley around 1420CST and moved southeast along the Neosho River Valley through Emporia and Iola to Fort Scott and Pittsburg before entering Missouri about 1800CST. The storm dropped large hail and produced wind gusts estimated stronger than 100 mph along its 150 mile long and 30 mile wide path.				
					Damage was widespread and severe. Crops were a total loss in several areas. A Kansas Gas and Electric spokesman described it as "the worst storm in the 75 year history of the company." The company lost 230 power poles, mainly in Coffey and Allen Counties. Two 120ft high "H" poles for a main line from the Wolf Creek Generating plant were also toppled. United Electric lost another 100 poles in the storm. Most of the damage was concentrated in Coffey and Allen Counties.				
					A county by county account of the highlights of the damage follows:				
					Morris: Total damage estimated at \$2 Million. Several grain bins were torn up in the 25 mile damage path which reached from White City to Dunlap. An 82mph wind gust was measured at Council Grove Reservoir. A 30 by 4 foot piece of asphalt was picked up from the road across the dam at the Lake, and the screen at a Drive Inn Theater was blown down. Roofs were torn from 2 homes just north of Council Grove. One man, who was caught outdoors, suffered bruises from flying debris.				
					Lyon: Total damage estimated at \$5 Million. Lots of roof and window damage was done near Americus. Two mobile homes were destroyed 7 miles east of Emporia; debris from the homes was blown across Interstate Highway 35. Two tractor-trailers were overturned on I-35 about 8 miles east of Emporia.				
					Coffey: Total damage estimated at \$37 Million. Severe damage was done to many homes and businesses in Burlington and Leroy. Three houses and 38 mobile homes were destroyed, and another 30 houses and 20 mobile homes were extensively damaged. Hilo and soybean fields were mowed to the ground between Burlington and Leroy. Eighteen people were injured in Leroy, but just two required hospitalization.				
					Anderson: Total damage estimated at \$0.5 Million. The storm caught mainly the southwest corner. Considerable damage was done to farm buildings and crops.				
					Woodson: Damage estimated at \$0.5 Million. The storm hit the northeast corner and wiped out most crops.				
					Allen: Total damage estimated at \$25 Million. Most homes and buildings in Iola and throughout a 20 mile wide path from the northwest to southeast corners of the county suffered damage. The roof was blown from a stadium, the steeple torn from a church, a wall was knocked out of a skating rink, and 3 mobile homes were destroyed, all in Iola. Several mobile homes were destroyed at La Harpe, and homes and buildings were damaged in Gas. The wind knocked 16 cars off a freight train off its tracks south of Moran.				
					Bourbon: Damage estimated at \$1 Million. The storm hit the southeast half of the county and damaged a great many farm buildings. Large hay bales were blown through fences. The roof was blown from a mobile home in Unifontown.				
					This storm undoubtedly ranks as one of the worst to hit Kansas in terms of total damage and areal extent.				

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1986

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED* DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
KANSAS									
Edwards Co. Kinsley	01	1550CST			0	0	2	5	TSTM Wind(52kt), Hail(1.00)
Kiowa Co. Greensburg	01	1639CST			0	0	4	5	TSTM Wind(52kt), Hail(1.00)
25 Haviland Belvidere	01	1655CST			0	0	4	4	Hail(3.00)
Barber Co. Sun City	01	1705CST			0	0	4	4	Hail(3.00)
Near Hardtner Kiowa Co.	01	1805CST			0	0	3	3	Hail(1.00)
Belvidere to Barber Co.	01	1715-	7	250	0	3	4	3	Tornado(F1)
3W Sun City	01	1800CST	<p>A severe thunderstorm dropped large hail and produced damaging winds as it moved from Kinsley to the Oklahoma border near Kiowa. A radio tower was blown down north of Belvidere. Several barn roofs were damaged and power lines and poles were downed near Belvidere. A tornado dropped to the ground near Belvidere and moved southeast about 7 miles before lifting 3 miles west of Sun City. Three people suffered minor cuts and bruises when the twister nearly destroyed a farm home near Belvidere.</p>						
Grant Co. Ulysses	01	1638CST			0	0	3	3	TSTM Wind(52kt), Hail(1.75)
Haskell Co. Sublette	01	1640CST			0	0	3	5	TSTM Wind(52kt), Hail(2.00)
Gray Co. Montezuma	01	1642CST			0	0	2	4	TSTM Wind(52kt), Hail(1.00)
Meade Co. 7N Meade	01	1647CST			0	0	2	0	TSTM Wind(52kt)
Stevens Co. 5N Hugoton	01	1710CST			0	0	2	2	TSTM Wind(52kt), Hail(1.75)
<p>A nearly solid line of thunderstorms from Ulysses to Meade drifted south and dissipated north of Liberal. Large hail and winds estimated at 60 mph accompanied the storms. Little structural damage was done, but crops suffered damage, especially in Haskell County.</p>									
Linn Co. Mound City	01	2354CST			0	0	2	2	Hail(1.75) Hailstones 3/4 inch in diameter fell at Mound City.
Cheyenne Co. 12SW St. Francis	03	2000CST			0	0	0	3	TSTM Wind(52kt)
5S Bird City	03	2045CST			0	0	0	3	TSTM Wind(55kt)
Sherman Co. 5N & 3W Goodland	03	2010CST			0	0	0	3	TSTM Wind(55kt)
9N & 2W Goodland	03	2035CST			0	0	0	3	TSTM Wind(52kt)
<p>Thunderstorms moved out of northeast Colorado and produced winds estimated 60mph and stronger in extreme northwest Kansas.</p>									
Mitchell Co. 3S Beloit	04	1735CST			0	0	3	3	Hail(1.75)
6S Beloit	04	1739CST			0	0	3	3	Hail(1.00)
Near Scottsville	04	1800CST			0	0	3	3	TSTM Wind
2.5S Beloit	04	1806CST			0	0	3	3	Hail(1.75)
Glen Elder	04	1831CST			0	0	3	3	Hail(1.75)
Tipton	04	2000CST			0	0	3	3	Hail(1.75)
Osborne Co. 2S Osborne	04	1743CST			0	0	4	4	Hail(1.75)
5.5S Athol	04	1743CST			0	0	4	4	Hail(1.50)
10S Osborne	04	1825CST			0	0	3	3	Hail(1.75)
2W Downs	04	1927CST			0	0	3	3	Hail(1.75)
Republic Co. 4.5S Belleville	04	1759CST			0	0	4	4	Hail(2.50)
3S Belleville	04	1759CST			0	0	4	4	Hail(1.75)
Courtland	04	1800CST			0	0	4	3	TSTM Wind
Cuba	04	1840CST			0	0	3	3	Hail(1.75)
Scandia	04	2008CST			0	0	3	3	Hail(1.75)
Norway	04	2030CST			0	0	3	3	TSTM Wind, Hail(1.75)
Kackley	04	2030CST			0	0	3	3	TSTM Wind, Hail(1.75)
Jewell Co. Randall	04	1825CST			0	0	3	3	Hail(1.75)
Lincoln Co. Barnard	04	1934CST			0	0	3	3	Hail(1.75)
3N Denmark	04	2005CST			0	0	4	3	TSTM Wind
Sylvan Grove	04	2015CST			0	0	3	3	TSTM Wind(52kt)
Cloud Co. 2N Jamestown	04	2035CST			0	0	3	3	Hail(1.75)
Washington Co. Morrowville	04	2040CST			0	0	3	3	TSTM Wind(52kt)
Russell Co. Bunker Hill	04	2100CST			0	0	4	3	TSTM Wind(52kt)
<p>A series of severe thunderstorms moved east across central and north-central Kansas. The storms dropped large hail and produced damaging winds in many spots. More than 35,000 acres of crops were</p>									
KANSAS									
Sherman Co. 9N & 6W Goodland	04	1840CST			0	0	3	4	TSTM Wind(55kt), Hail(1.00)
8N & 5W Goodland	04	1842CST			0	0	0	4	TSTM Wind(55kt), Hail(1.00)
11N & 5E Goodland	04	1845CST			0	0	0	4	TSTM Wind(60kt), Hail(1.75)
9N & 2W Goodland Decatur Co. 10W Oberlin	04	1850CST			0	0	0	3	Hail(1.75)
	04	2030CST	<p>Thunderstorms dropped inch diameter hail and produced strong winds in spots as they crossed Northwest Kansas.</p>						
Riley Co. Tuttle Creek Lake	05	1716CST			0	0	2	2	Hail(1.75) A thunderstorm dropped 3/4 inch hailstones north of Manhattan near the dam at Tuttle Creek Reservoir. Little damage resulted.
Decatur Co. 4E & 1S Dresden Norton Co. Norton	06	1805CST			0	0	0	4	Hail(1.50)
	06	1900CST			0	0	4	4	Hail(2.00)
<p>A severe thunderstorm moved south from Nebraska through Norton and Decatur Counties. It dropped large hail and caused a good deal of crop damage.</p>									
Jewell Co. Burr Oak	07	0052CST			0	0	3	4	Hail(1.00)
Mankato	07	0106CST			0	0	3	4	Hail(1.75)
Jewell	07	0145CST			0	0	3	4	Hail(1.00)
Cloud Co. 3S & 3W Concordia	07	0230CST			0	0	3	4	Hail(1.50)
<p>A severe thunderstorm developed northwest of Mankato and moved toward Concordia. It dropped large hail that did extensive crop damage.</p>									
Johnson Co. Olathe	07	0320CST			0	0	5	0	Lightning. A lightning strike set fire to a home in Olathe. Most of the home and belongings were lost. One firefighter was injured while fighting the blaze.
Ford Co. 8N Minneola Kiowa Co. 10N Mullinville	07	2150CST			0	0	0	3	Hail(1.75)
Edwards Co. Fellsburg	07	2230CST			0	0	0	3	Hail(1.75)
Stafford Co. 6.5S Macksville	07	2240CST			0	0	0	3	Hail(1.75)
	07	2310CST			0	0	0	3	Hail(1.75)
<p>A severe thunderstorm formed south of Dodge City and dropped 3/4 inch to golfball size hail on some spots as it moved east toward Pratt. Minor crop damage resulted.</p>									
Reno Co. 10SW Hutchinson	08	0005CST			0	0	0	2	Hail(1.75) A thunderstorm dropped 3/4 inch hailstones southwest of Hutchinson. Little damage resulted.
Cowley Co. 3NE Arkansas City	08	0130CST			0	0	4	0	TSTM Wind Nine power poles were broken by thunderstorm winds northeast of Arkansas City.
Cheyenne Co. 12N St. Francis St. Francis	08	1538CST			0	0	0	3	Hail(1.75)
Sherman Co. Goodland Airport 6S Edson	08	1545CST			0	0	4	3	TSTM Wind(59kt)
	08	1702CST			0	0	2	2	TSTM Wind(50kt)
	08	1730CST			0	0	3	3	TSTM Wind(70kt)
<p>A severe thunderstorm produced winds estimated at 80mph as it moved south out of Nebraska across Cheyenne and Sherman Counties. A wind gust was measured at 58mph at the Goodland Airport and another at 68mph at the St. Francis Airport. Part of the roof was ripped from the grandstand at the fairgrounds in St. Francis.</p>									
Cloud Co. 5SE Concordia	09	1400CST			0	0	0	0	Funnel A funnel cloud was sighted southeast of Concordia.
Morris Co. 5N Latimer Near Dwight W of Alta Vista	09	1600CST			0	0	0	0	Funnel
	09	1615CST			0	0	0	0	Funnel
	09	1625CST			0	0	0	0	Funnel
<p>At least 3 funnels dropped from the clouds over Morris County. None appeared to have touched down.</p>									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1986

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

KANSAS

Lyon Co, Near Allen	09	1826CST			0	0	0	0	Funnel
A funnel was sighted near Allen.									
Thomas Co, 5N Rexford Decatur Co, 15SW Oberlin	12	1807CST			0	0	0	3	Hail(1.00)
12	1822CST				0	0	0	4	TSTM Wind(52kt), Hail(1.00)
A thunderstorm developed northeast of Colby and moved toward Oberlin. It produced winds estimated at 60mph and inch hail resulting in some crop damage.									
Nemaha Co, Sabetha	12	2155CST			0	0	4	4	Hail(1.75)
Sabetha	12	2210CST			0	0	5	4	Hail(2.75)
Brown Co, Fairview	12	2215CST			0	0	4	4	Hail(2.00)
Golfball to baseball size hail pelted the area from Sabetha to Fairview. It fell for about 15 minutes in Sabetha. Nearly every roof in town was damaged, and hundreds of windows were broken. A good deal of crop damage was also done.									
Graham Co, Hill City Arpt	13	1645CST			0	0	2	0	TSTM Wind(50kt)
A thunderstorm wind gust was measured at 50mph at the Hill City Airport. Little damage resulted.									
Lane Co, 7SE Dighton	13	1645CST	1	30	0	0	3	0	Tornado(F0)
A tornado touched down briefly southeast of Dighton. Three power poles were downed, but little other damage resulted.									
Geary Co, Fort Riley Airport	13	1701CST			0	0	0	0	TSTM Wind(51kt)
Riley Co, Manhattan Airport	13	1733CST			0	0	3	0	TSTM Wind(70kt)
Manhattan	13	1745CST			0	0	3	0	TSTM Wind
A thunderstorm developed near Junction City and produced strong winds as it moved east through Manhattan. Wind gusts were measured at 59mph at Fort Riley's Marshall Field and at 81mph at the Manhattan Airport. Trees were damaged and power lines downed in Manhattan.									
Jackson Co, Holton	13	1730CST			0	2	0	0	Lightning
A man and woman were injured when lightning struck a tree in Holton. Both were standing beneath the tree. The man was admitted to the hospital, and the woman was treated and released.									
Russell Co, 1SE Russell	13	1855CST			0	0	3	0	TSTM Wind
Thunderstorm wind gusts damaged several farm buildings southeast of Russell.									
Ford Co, 3NE Dodge City Dodge City	13	2014CST			0	0	5	0	TSTM Wind
13	2030CST				0	0	4	0	Flash Flood
Thunderstorm winds destroyed a mobile home, damaged two other residences and tore the roof off a business 3 miles north and 1 mile east of Dodge City. The storm also dropped more than 3 inches of rain in less than an hour. Many streets, low spots and basements in Dodge City were flooded.									
Grant Co, 8NW Ulysses	14	1415CST			0	0	2	3	Hail(1.75)
Hail the size of golfballs fell northwest of Ulysses. Some crop damage resulted.									
Dickinson Co, 5S Abilene	17	1840CST			0	0	3	3	Hail(1.00)
Inch diameter hailstones fell south of Abilene. Minor damage resulted.									
Saline Co, Salina	17	1912CST			0	0	3	3	Hail(.75)
Salina	17	1920CST			0	0	3	3	Hail(1.75)
Smolan	17	1935CST			0	0	3	3	Hail(.75)
A severe thunderstorm dropped 3/4 inch to golfball size hail across Saline County from Salina to Smolan.									
Washington Co, Mahaska	18	1906CST			0	0	4	4	Hail(1.75)
Republic Co, Belleville	18	1927CST			0	0	4	4	Hail(1.75)
Cuba	18	1927CST			0	0	3	3	Hail(1.75)
Talgo	18	1957CST			0	0	3	3	Hail(1.75)
Narka	18	2000CST			0	0	4	4	Hail(1.75)
15SE Belleville	18	2006CST			0	0	3	3	Hail(1.75)
Cloud Co, 5NE Concordia	18	2001CST			0	0	3	3	Hail(.75)
2W Concordia	18	2023CST			0	0	3	3	Hail(.75)
Concordia	18	2028CST			0	0	4	0	Hail(1.50)
1E Glasco	18	2034CST			0	0	3	3	Hail(.75)

KANSAS

Clay Co, Near Longford	18	2055CST			0	0	3	3	Hail(.75)
Ottawa Co, Bennington	18	2100CST			0	0	3	3	TSTM Wind(61kt)
4N Minneapolis	18	2109CST			0	0	4	4	Hail(1.75)
Minneapolis	18	2109CST			0	0	3	3	Hail(.75)
Bennington	18	2109CST			0	0	3	3	Hail(.75)
Saline Co, Salina	18	2130CST			0	0	5	0	TSTM Wind, Hail(.75)
Gypsum	18	2157CST			0	0	3	3	Hail(.75)
Dickinson Co, 3E Solomon	18	2144CST			0	0	4	4	TSTM Wind(52kt), Hail(.75)
Hope	18	2213CST			0	0	3	3	TSTM Wind(52kt)
Marion Co, Hillsboro	18	2240CST			0	0	2	2	Hail(.75)
A series of severe thunderstorms moved south across North-Central and Central Kansas. The storms dropped large hail and produced strong winds that damaged farm buildings and downed power lines. Trees were uprooted at Salina and east of Solomon. Power lines were knocked down in Salina, and the hail broke many windows across the area.									
Cloud Co, Concordia Airport	19	0018CST			0	0	3	3	Hail(1.00)
Concordia	19	0038CST			0	0	6	3	Hail(1.25)
Ottawa Co, Delphos	19	0105CST			0	0	4	3	TSTM Wind(61kt), Hail(.75)
A severe thunderstorm developed just north of Concordia and moved south toward Salina. It dropped tennis ball size hail over much of Concordia and caused a great deal of damage to roofs and vehicles.									
Smith Co, Smith Center	20	1513CST			0	0	3	3	Hail(1.50)
Smith Center	20	1524CST			0	0	3	3	Hail(1.25)
5N Portis	20	1610CST			0	0	3	3	Hail(.75)
Osborne Co, Portis	20	1545CST			0	0	3	3	Hail(.75)
5NE Osborne	20	1609CST			0	0	3	3	Hail(.75)
Jewell Co, 10NW Esbon	20	1630CST			0	0	3	3	Hail(.75)
Esbon	20	1705CST			0	0	3	3	Hail(.75)
Mitchell Co, Cawker City	20	1635CST			0	0	3	3	TSTM Wind(52kt)
A line of severe thunderstorms dropped large hail and produced isolated wind gusts of around 60 mph as they moved east across North-Central Kansas.									
Trego Co, Wakeeney	20	1600CST			0	0	4	0	TSTM Wind
Thunderstorm winds tore apart a shed and damaged a nearby mobile home on the south side of Wakeeney. The winds also turned over a truck on Interstate 70 south of town and blew over a road sign.									
Russell Co, 1E Russell	20	1630CST			0	0	2	0	Lightning
Lightning struck a car on Interstate 70 highway. The bolt burned the radio antenna from the car and blew out a front tire, but the driver was not injured.									
Mitchell Co, 8SW Glen Elder	22	1610CST			0	0	3	3	TSTM Wind(52kt)
Osborne Co, 2E Osborne	22	1652CST			0	0	3	3	Hail(1.00)
Russell Co, 4N Gorham	22	1755CST	0.5	20	0	0	0	0	Tornado(F0)
8W Russell	22	1830CST			0	0	3	3	TSTM Wind(52kt)
A line of severe thunderstorms produced strong winds and large hail from west of Beloit to Russell. The storms spawned a small tornado that touched ground for a short time north of Gorham.									
Ellis Co, Walker	22	1810CST			0	0	0	0	Funnel
A highway patrol trooper sighted a funnel cloud east of Hays near Walker.									

SPECIAL HAIL SUMMARY

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

- 01 Gray, Haskell, Kiowa
- 04 Jewell, Republic
- 05 Thomas, Washington
- 06 Decatur
- 07 Edwards
- 12 Brown, Nemaha
- 18 Republic

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1986

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
15 KENTUCKY									
Southern Graves County	07	1422CST			0	0	3	0	Thunderstorm Wind
Trees were blown down along Kentucky Highway 94 and 303 near Cuba. A shed was blown into a house, causing considerable damage to the house and surrounding property.									
Wayne County	10	evening			0	0	4	4	Thunderstorm Wind, Hail
Large hail of unknown size fell on Roger's Grove Road near Monticello, destroying most all of the tobacco crop in that area. Trees were damaged, roofs were blown off of a few barns, and power lines and antennae were downed.									
Laurel County	16	1300EST			0	0	6	0	Lightning
Lightning touched off a spectacular fire that destroyed the London Church Furniture Plant on US 25 South. Damage was assessed at one million dollars.									
East Lincoln County	19	1830EST			0	0	3	4	Thunderstorm Wind, Hail
Trees were uprooted and chimneys were blown from housetops in Crab Orchard. Hail damaged roofs and did considerable damage to the corn and tobacco crops. Local gardens were a total loss.									
Garrard County	19	1900EST			4	0	4	4	Flash Flooding, Hail (1.75)
Torrential rains that averaged between 6 and 12 inches swelled creeks over their banks and wiped out tobacco and corn crops along with fence rows in the Fall Lick, Drakes Creek, and Flatwoods areas of Garrard County. Hail, golfball size, tore leaves off of the remaining tobacco plants and beat the ears off of the cornstalks. A total of sixty-five trees fell on one farm in the Fall Lick area.									
Western Rockcastle County	19	2200EST			0	0	4	4	Thunderstorm Wind, Hail
Severe thunderstorms rolled across western Rockcastle County downing trees and power lines. Hail of unknown size flattened the tobacco crop near Brodhead. Three small wooden bridges near Brodhead were washed out by the heavy downpour of rain that accompanied the severe storms.									
Powell County	19	2300EST (estimated)			0	0	3	4	Hail
Hail severely damaged the tobacco crop near Warwick's Creek. Strong thunderstorms caused a bit of structural damage in the Forge Mill Road area - a roof was blown off of a barn and a silo collapsed.									
Warren County	26	1500CST			0	3	0	0	Lightning
Three people were hospitalized when lightning struck them in a barn while hanging tobacco in Richdsville. The victims were three males, ages 36, 34, and 16 years old. The 16 year old boy had to be put in intensive care while the older men were reported in fair condition.									
Barren County	26	1630EST			0	0	4	0	Thunderstorm Wind
Severe thunderstorms moved into the Cave City and Glasgow areas causing substantial roof damage to homes and downing trees and power lines. Electrical, telephone and cable lines were torn down by the winds and falling trees. A large plate glass window was broken out of the Country Corner Market and a nearby shed was destroyed between Cave City and Glasgow. Large trees blocked roadways.									
Cumberland County	26	1805EST			0	0	3	0	Thunderstorm Wind
The Burkesville Police Department reported power outages in Burkesville with a few large trees and power lines down in the city. Some of the downed trees blocked major roadways.									
Monroe County	27	1400-1430 CST			0	0	4	4	Thunderstorm Wind, Hail (1.00-1.75)
Severe thunderstorms did considerable damage to the small community of Gamaliel in Monroe County. A furniture store was unroofed and deposited onto a supermarket and a barn. The Gamaliel Middle School was unroofed along with windows being blown out. Hail, from 1 to 3/4 inches in diameter, beat leaves off of the tobacco crop and trees along with doing substantial damage to cars and house siding. Large trees, power lines and television antennae were blown down. The most concentrated area of storm damage was in a 3/4 mile wide path through the small downtown area of Gamaliel.									
16 LOUISIANA									
St. Tammany Parish	01	1800CST			0	0	?	?	SVR TSTM-Hail (1.00)
One inch hail was reported in Lacombe by a Weather Service employee. The thunderstorm continued to move south along the east portion of Lake Pontchartrain. It produced at 47 knot gust at the Weather Service anemometer on the U.S. 11 bridge at 1830CST. By 1837CST, the Orleans Levee Board reported that strong winds put several boats in distress along the south shore of the lake.									
St. Helena Parish	02	1108CST			0	0	?	?	SVR TSTM-Wind
Tangipahoa Parish	02	1130CST			0	0	?	?	SVR TSTM-Wind
East Baton Rouge Parish	02	1153CST			0	0	?	?	TSTM-Lightning
Livingston Parish	02	1200CST			0	0	?	?	SVR TSTM-Wind
A line of numerous severe thunderstorms developed along the LA/MS border and moved rapidly south through St. Helena, Tangipahoa and Livingston Parishes between 1100-1200CST. Straight-line winds blew down numerous trees and power lines northeast of Eastleyville, west of Greensberg and north of Pine Grove in St. Helena Parish between 1108-1140CST. Also, the storms knocked down numerous trees and power lines between Robert and Pontchartroula in Tangipahoa Parish at about 1130CST. Strong winds toppled a large, 50 year old pecan tree in Springfield (Livingston) at about 1200CST. Lightning sent a large tree crashing into a bus and a small car in Baton Rouge at 1153CST; 7 people were injured. Gale force winds from a south-moving thunderstorm capsized a sailboat in the southwest part of Lake Pontchartrain around 1300CST. The three crewmen and the boat were rescued by a St. John the Baptist Parish deputy and two citizen volunteers.									
Lafourche Parish	02	1320CST			0	0	?	0	SVR TSTM-Wind
Terrebonne Parish	02	1325CST			0	0	?	0	SVR TSTM-Wind
Straight-line winds from a severe thunderstorm damaged some trailers in the Schiever/Thibodaux area and did some roof damage to home in the Lockport/Raceland area.									
Tangipahoa Parish	07	1312CST			0	0	?	?	TSTM-Lightning
Lightning killed 11 heifer cows and seriously injured two others at a farm near Kentwood.									
St. John the Baptist Parish	23	1700CST **300	15	0	0	?	?	?	Tornado (F0)
St. John the Baptist Civil Defense said a small tornado took off the shingles of some roofs and damaged some trees in Laplace.									
Jefferson Parish	26	1300CST			0	0	?	?	TSTM-Lightning
Lightning caused a chemical fire on a barge anchored in the MS River at Waggaman. Winds blew the fire's smoke into the south part of Kenner where city authorities evacuated 1500 people as a precaution. Two dozen people were treated at area hospitals for eye, throat and skin irritations; three of them were hospitalized.									
East Baton Rouge Parish	26	1435CST			0	0	?	0	SVR TSTM-Wind
Straight-line winds from a severe thunderstorm twisted the unsecured upper portion of a steel frame office building that was under construction in downtown Baton Rouge. In addition, the winds blew down some small trees and damaged some car windows in the downtown area.									
Lincoln Parish	26	1930CST			0	0	5	0	TSTM-Lightning
Lightning caused a fire which did \$105,000 damage to a home in Ruston.									
17 MAINE									
York County	07	1415EST	1.5	200	0	0	?	?	Tornado (F1)
A tornado began in New Hampshire near the Wakefield-Effingham town line on the west side of Province Lake. It twisted its way into Parsonsfield, Maine where Route 153 bends to meet the state line about four tenths of a mile from the east shore of Province Lake. It then entered the Maine woods, traversed a section of Smith Road, tore through the Smith farm, crossed Stagecoach Road and ended near the top of the hill. The path was approximately 200 yards at maximum width along the Smith Road and almost 3 miles in total length. The path in Maine was nearly 1/2 miles long. All the trees in its path were either uprooted or snapped off and laid in a definite cyclonic pattern. On Smith Road, the felled trees damaged several homes and crushed two vehicles. The Smith farm appeared to suffer the worst damage where a six-bay garage was completely blown away, a part of the farmhouse roof was torn away, and an estimated \$5,000 worth of corn in fields was lost. Sections of the farm's garage and roof, as well as a battered canoe, were found up to 1/2 mile away. Inspection by two National Weather Service personnel and Mrs. Smith's vivid account, left no doubt that this was a tornado.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

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PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
MAINE									
York County	07	1620EST	1.5	200	0	0	5	0	C Tornado (F1)
	<p>A tornado touched down in Shapleigh where Knox and Coley Trafton Roads meet at Box Brook, crossed Butler Corner Road and just about reached Nason Road before lifting. Its path was approximately 200 yards at maximum width and about 1 1/2 miles in length. Most damage was confined to woods where trees were uprooted or snapped off and laid in a definite cyclonic pattern. A Knox Road barn had an entire side of its roof ripped away. A Butler Corner Road home also suffered roof damage from the winds, but was miraculously missed by several felled nearby trees. Inspection by two National Weather Service personnel and the description by a Butler Corner resident left no doubt that this was a tornado.</p>								
Oxford County	08	1520EST			0	0	5		Severe Thunderstorm
	<p>In the Waterford-West Paris area, winds during a severe thunderstorm blew down and uprooted huge trees. West Paris was hardest hit along Greenwood Street to High Street. Four sections of aluminum roof were torn off the Penley Corp. and a large tree dropped on the roof of a nearby Greenwood Street home. Several fruit trees and large pine trees were toppled along High Street. A pine damaged the roof of a High Street home. West Paris recorded 3/4 of an inch of rain in a half hour and pea size hail. There were isolated power outages that lasted about an hour.</p>								
Kennebec County	08	1545EST			0	0	3		Severe Thunderstorm
	<p>Readfield reported 60 mph (52 Kt) gusts during a severe thunderstorm.</p>								
Cumberland County	08	1625EST			0	0	4		Severe Thunderstorm
	<p>Harrison reported winds blew down trees during a severe thunderstorm.</p>								
York County	08	1640EST			0	0	4		Severe Thunderstorm
	<p>The Hollis-Buxton area reported winds blew down trees during a severe thunderstorm.</p>								
Aroostook County	09	Early AM			0	0	5		Heavy Rain
	<p>Residents of the Houlton area had upwards of 5 inches of rain fall during the early morning hours of Saturday. This produced varying amounts of damage to local roads and considerable damage to a number of basements, to both residential and business establishments. There was considerable soil erosion on Route 2A along the Meduxnekeag River. The major problem in Houlton was the collapse of four of its older storm drains. The Houlton Public Works reported a number of streets need repairs to shoulders of roads and or to driveways.</p>								
Cumberland County	09	1330EST			0	0	3		Severe Thunderstorm
	<p>Scarborough reported a severe thunderstorm produced one inch diameter hail and strong winds that blew down trees.</p>								
York County	09	1415EST			0	0	3		Severe Thunderstorm
	<p>Saco reported winds blew down trees during a severe thunderstorm.</p>								
York County	09	1435EST			0	0	3		Severe Thunderstorm
	<p>Old Orchard Beach reported winds blew down trees during a severe thunderstorm.</p>								
Somerset County	09	1540EST			0	0	3		Severe Thunderstorm
	<p>Bingham reported 60 mph (52 Kt) wind gusts with a severe thunderstorm.</p>								
Washington County	16	1700EST			0	0	4		Lightning
	<p>In Calais, the roof of an Episcopal rectory was struck by lightning, causing at least \$6,000 worth of fire damage. The rectory also sustained smoke and water damage. Another bolt struck a power line, came through a wall outlet, and set a sofa on fire at a Swan Street home. Calais radio station WQDY had both the AM and FM transmitter struck by lightning, with both suffering minor damage. Electrical wires burned by lightning caused minor power outages in Princeton, Waite and Calais.</p>								
18 MARYLAND and D.C.									
Howard County	02	1500EST			0	0	3	0	Thunderstorm Wind
	<p>Thunderstorm winds blew down a wall of a store.</p>								
Anne Arundel County	02	1600EST			0	0	3	0	Thunderstorm Wind
	<p>Thunderstorm winds uprooted trees and damaged cars and a barn.</p>								
MARYLAND and D.C.									
Worcester County	05	1500EST			3	2	0	0	Lightning
	<p>Lightning struck persons seated under a beach umbrella.</p>								
Worcester County	17	2000EST			0	0	4	0	Hurricane
	<p>50 mph winds from Hurricane CHARLEY, gusting to 80 mph, caused minor external building damage and beach erosion.</p>								
Allegheny County	25	1700EST			1	0	2	0	Lightning
	<p>A lightning bolt ignited a bedroom fire and killed a man.</p>								
Statewide	Spring				0	0	0	8	Drought
	<p>Twenty-one counties were declared disaster areas because of drought.</p>								
19 MASSACHUSETTS									
Hampshire County, Ware	02	1430EST			1	1	0	0	Lightning
	<p>A woman was killed and a man injured by a bolt of lightning as they stood under a large pine tree holding an umbrella during a thunderstorm near the shore of the Quabbin Reservoir. F370</p>								
Worcester County, Uxbridge	07	1345EST			1	0	2	0	Lightning
	<p>A construction worker was killed by a bolt of lightning while working within a house. The lightning apparently struck a tree near the house and then travelled into the house via a window sill and then tore a hole in the cellar floor, hitting the worker in the head. The path of the lightning may have been through metal braces in the cellar and then up through the cellar ceiling. M22P</p>								
Middlesex County, Bedford	07	1410EST-1420EST	4.0	50-100	0	0	5	0	Tornado (F1)
	<p>A tornado touched down on the eastern end of the civilian airfield at Hanscom Field, flipping over three single engine aircraft. The tornado then moved along an intermittent path in a generally north-northeasterly direction, cutting through a residential area of south Bedford. Many trees were broken and uprooted along its path and gutters and shingles were torn off of houses. Windows were blown out along Wiggins Avenue and several businesses suffered property damage - one had its roof torn up. A piece of metal was wrapped around a guard rail. Transformers exploded, contributing to power losses in the area. The path of the tornado terminated at the intersection of Route 62 and Route 3. Damage to structures was estimated between \$50,000 and \$100,000, while the damage to the aircraft was about \$55,000.</p>								
Northern Bristol and southwest Norfolk counties	07	Late afternoon			0	0	?	?	Heavy rain and Flooding
	<p>Heavy thunderstorms brought cloudburst rainfall to the area with upwards of 4 to 4.5 inches of rain falling in a short period of around an hour to an hour and a half. Severe street and urban flooding was reported.</p>								
Worcester County, Millville	08	1025EST-1030EST	1.0	100	0	0	3	0	Tornado (F1)
	<p>A tornado crossed the RI-MA border and travelled a short distance in a northeasterly direction over the extreme south portion of the town. Trees were uprooted, but apparently only minor property damage occurred. Many power lines were downed.</p>								
Norfolk, Suffolk, Middlesex and Essex counties	08	1100EST-1145EST			0	6	6	0	Thunderstorm winds
	<p>A severe thunderstorm moved in an east-northeasterly direction along a line from the Needham-Dedham area, through Brookline, Cambridge, part of Boston, Charlestown, Revere, and Nahant. Some trees were uprooted, others broken, causing property damage and electric power outages. On the Harvard Bridge between Boston and Cambridge, a construction company trailer was overturned by the winds gusting to 60 to 70 MPH. Three workers were injured. A roof was lifted off a building in Sullivan Square and windows were blown out of another building. In Revere, a ferris wheel was toppled at a carnival. The other amusements suffered damage which was estimated at about \$500,000. A girl was injured at Nahant Beach when a parking lot attendant's booth tipped over on her in the gusty winds. Two other persons were also injured in the incident. Many boats were capsized in the immediate coastal area.</p>								

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					KILLED	INJURED	PROPERTY	CROPS	
MASSACHUSETTS									
Berkshire County, South Egremont	17	Afternoon-evening			0	0	5	?	Flash floods
					<p>Cloudbursts of rain caused extensive damage in South Egremont. A mudslide on Route 41 caused severe damage to the road. Several houses were damaged by the mudslide. Nearby, a culvert was completely washed out and an auto washed into the ditch. Kerner Brook became a roaring river when up to 8 inches of rainfall during the afternoon caused Smiley's Pond to overflow. At least five roads were closed to traffic and dozens of cellars were flooded. Damage to homes and driveways was estimated at \$150,000 while about the same amount of damage was reported for town roadways. In the northern portion of the county, Williamstown also reported flooding of roads and basements after several inches of rain fell in about an hour. A bridge was reported to be washed out and several roads were closed.</p>				
Plymouth County, Hill	18	0530EST-0800EST			0	0	?	0	Heavy rain and Flooding
					<p>Heavy rain with amounts of about 4 to 4.5 inches fell in an hour to two hours which resulted in heavy street flooding along with flooding of basements. The rain was accompanied by thunderstorm activity.</p>				
Nantucket County, Nantucket	18-19	Evening Early morning			0	0	5	0	Tropical Storm CHARLEY
					<p>Tropical Storm CHARLEY brought 65 M.P.H. winds, a four foot tide surge, and five foot waves to Nantucket Harbor. The most serious damage occurred to boats in the harbor. Ten large boats were beached, and others damaged by boats which broke their moorings. Some boats were washed up on porches of homes at the water's edge. Damage to boats was estimated up to \$75,000. On the island, a number of trees were knocked over by the winds and scattered power failures were reported.</p>				
Statewide	24	All day			0	0	4	0	High winds
					<p>Strong winds gusting to 40 to 55 MPH were reported from sections of the state ranging from the Berkshires to Bristol County. Some trees and many branches were blown down by the winds, which resulted in scattered power outages. Along the coast, a number of small craft were overturned, but without any serious injuries.</p>				
20 MICHIGAN									
Allegan and Ottawa Counties, Lake Michigan shore from Grand Haven to South Haven	02	0910EST			0	0	0		Funnel Clouds
					<p>Many witnesses saw two funnel clouds moving east. They were visible for about 20 minutes.</p>				
Kent County, Grand Rapids	02	1025EST			0	0	0		Hail (0.75)
Northern Kent County	02	1210EST			0	0	0		Hail (1.00)
Genesee County, 5 miles S of Flint	02	1310EST			0	0	0		Funnel Cloud
Lenawee County, Cambridge Junction	02	1330EST			0	0	3		Thunderstorm
Washtenaw County, Milan	02	1345EST			0	0	2		Thunderstorm
Macomb County, 2 miles NE of Washington	02	1425EST	0.7	25	0	0	3		Tornado (F1)
Wayne County, Detroit (NW side)	02	1440EST	0.3	20	0	3	4		Tornado (F1)
Southeast St. Clair County	02	1447EST			0	0	0		Funnel Cloud
St. Clair County, New Baltimore	02	1500EST			0	0	0		Hail (0.75)
Lapeer County, Columbiaville	02	1500EST			0	0	0		Thunderstorm
					<p>Rain and wind delayed a race at the Michigan International Speedway. A TV platform was blown off the pressbox roof. Trees and tents were blown down near Milan. The tornado near Washington was seen and heard by several witnesses; trees were blown down across roads. The tornado in Detroit touched down on the Jefferies Freeway just east of Grand River Ave. 2 persons were injured when a car was picked up and slammed against a retaining wall. 4 cars, 1 mobile home, and a pickup truck were damaged. The tornado moved northeast into a residential neighborhood, doing minor damage to a house and highway signs. Witnesses saw a dark dust cloud, heard loud noises, and felt low air pressure. Plants flew out the window of a house. The thunderstorm at Columbiaville blew a tree over onto a car.</p>				
MICHIGAN									
Presque Isle County, Rogers City	08	1240EST	1.7	20	0	0	3		Tornado (F1)
					<p>The funnel was seen to move southeast across a residential neighborhood, turn slightly to the left, and continue over Lake Huron. A shed was destroyed, shingles and roofing were pulled from a house, and a large tree was uprooted. The funnel aloft was seen over Grand Lake, 17 miles to the southeast a few minutes later.</p>				
NE Lenawee and S Wayne Counties	15	1520EST			0	0	2	?	Wind
					<p>Winds estimated 60 to 65 mph hurled a car 40 feet, downed large trees, and flattened crops.</p>				
Monroe County, South Rockwood	17	1330EST			0	2	0		Lightning
					<p>2 persons were struck on a golf course. The woman, wearing metal spiked shoes, was critically injured; the man, with rubber shoes, was slightly injured.</p>				
Genesee County, Flint	26	1220EST			0	0	0		Thunderstorm
					<p>A gust to 56 mph occurred at the airport</p>				
Lenawee and Monroe Counties	26	1230EST			0	0	3		Thunderstorm
					<p>Wind and lightning caused widespread, mostly minor damage, especially to power lines.</p>				
Wayne County, Near Millis	26	1300EST			0	1	0		Lightning
					<p>A woman driving a van was slightly injured.</p>				
Van Buren County, SE of Paw Paw	26	1625EST			0	0	0		Funnel Cloud
					<p>The funnel cloud was seen to move northeast.</p>				
Barry County, 5 miles N of Delton	26	1640EST	0.6	15	0	0	4		Tornado (F2)
					<p>Trees were blown down at the beginning of the track. Along the north shore of Guernsey Lake, near the end of the track, a house was unroofed and partly destroyed. Both explosive forces and rotation were observed.</p>				
Kalamazoo County, 2 miles NW Parchant	26	1640EST	0.5	12	0	0	5		Tornado (F1)
					<p>3 witnesses saw the funnel, 1 drove a car through it at high speed. Car was caked with mud and scratched by swirling branches. Several trees were uprooted, and siding was pulled from a house. The funnel was on the south edge of a heavy rain shower. It appeared to bounce along, often not quite in contact with the ground, as it moved southeast.</p>				
Eaton and Ingham Counties, Diamond Lake to 4 miles east of Holt	26	1730EST	10.6	50	0	0	5		Tornado (F2)
					<p>Witnesses saw a ropelike funnel skipping along the ground. Minor damage occurred to 6 houses, major damage to 2 mobile homes. 2 small aircraft were destroyed. Many trees were down. The funnel aloft was seen several times along the extension of the path 18 miles farther east into Livingston County, but it apparently did not touch down again.</p>				
Hillsdale County, Camden	26	1739EST			0	0	0		Hail (2.00)
					<p>Strong winds occurred in the vicinity.</p>				
Shiawassee County, Durand	26	1800EST			0	0	0		Funnel Cloud
					<p>The funnel was seen to remain aloft, though there was some minor wind damage and some street flooding in the vicinity.</p>				
Livingston County, Just S of Howell	26	1820EST			0	0	0		Funnel Cloud
Genesee County, Flint	26	1900EST	0.1	10	0	0	0		Funnel Clouds Tornado (FO)
					<p>2 funnels were seen to the south from the airport control tower. 2 more were observed on the southeast side of the city. One was said to have touched down briefly, but no damage could be found along its short, narrow path.</p>				
Lapeer County, Metanora Twp.	26	1925EST			0	0	0		Funnel Cloud
St. Clair County, Near Capac	26	2000EST			0	0	0		Funnel Cloud
Washtenaw County, Just NW of Ann Arbor	26	2004EST			0	0	0		Funnel Cloud
Central Marquette County	27	1145EST			0	0	0		Snow
					<p>A few snow pellets were mixed with a rain shower at both Mearns and 5win.</p>				
10 miles NW of Port Austin in Lake Huron	28	1410EST			0	0	0		Waterspouts
					<p>A Coast Guard vessel reported 2 spouts.</p>				

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					KILLED	INURED	PROPERTY	CROPS	
21 MINNESOTA									
Aitkin Co.	4	1740CST			0	0	0	0	Hail (1.75)
Golfball size hail fell at Cedar Lake west of Aitkin.									
Beltrami Co.	5	1430CST			0	0	0	0	Funnel
A funnel was sighted by a pilot just southwest of the Bemidji Airport.									
Anoka Co.	5	1520CST			0	0	?	0	Hail (1.75)
Golfball size hail fell in Columbia Heights and Fridley.									
Hennepin Co.									
Brooklyn Center	5	1525CST			0	0	0	0	Hail (0.75)
Carlton Co.									
Cloquet	5	1525CST			0	0	0	0	Hail (1.75)
Golfball size hail fell at Cloquet.									
Anoka Co.	9	1510CST			0	0	2	0	Thunderstorm Wind
A thunderstorm caused scattered wind damage in Anoka County. The wind knocked trees down and broke windows on the south side of a home in Ramsey at 1510CST. Farther to the northeast, the storm downed several trees 1 1/2 ft. in diameter in the Lake George area. At 1537CST, large oak trees were blown down in the western section of St. Francis.									
Anoka Co.	9	1720CST			0	0	0	0	Funnel
A funnel was sighted by local police along the Ham Lake/ Blaine border.									
Hennepin Co.									
Bloomington	16	1823CST			0	0	5	0	Hail (2.0)
Minneapolis	16	1840CST			0	0	?	0	Hail (0.75)
Hail up to two inches in diameter fell from Bloomington into sections of Minneapolis. The Twin Cities International Airport had 20 minutes of hail 3/4" in diameter from 1840CST to 1900CST. Hail damage to automobiles was extensive.									
Ramsey Co.									
Maplewood	16	1915CST			0	0	?	0	Hail (1.75)
Golfball size hail fell in Maplewood.									
Washington Co.									
Oakdale	16	1925CST			0	0	?	0	Hail (1.75)
Golfball size hail fell in Oakdale.									
Renville Co.									
Olivia	16	2208CST			0	0	3	0	Thunderstorm Wind
Bird Island	16	2217CST			0	0	0	0	Hail (0.75)
Thunderstorm winds blew down power lines in Olivia.									
Blue Earth Co.	17	0007CST			0	0	0	0	Funnel
Two funnels were sighted five miles west of Mankato.									
Goodhue Co.	17	0130CST			0	0	2	0	Thunderstorm Wind
Thunderstorm winds knocked down trees and power lines in Goodhue County. Winds tore part of a roof off a building in Kenyon.									
Jackson Co.									
Heron Lake	25	2352CST			0	0	4	0	Thunderstorm Wind
Winds knocked over nine power poles along Highway 60 near Heron Lake. Many trees were downed in Heron Lake and shingles were torn off roofs. A 15 ft. chimney on a nursing home collapsed in the wind and fell through the roof.									
MINNESOTA									
Mower Co.									
Austin	26	0330CST			0	0	3	0	Thunderstorm Wind
A brief burst of wind from a passing thunderstorm snapped trees and utility poles in Austin. The southwest section of Austin received most of the damage.									
22 MISSISSIPPI									
Magnolia, Pike County	2	1055CST			0	0	?	0	Hail (1.00)
Dime and nickel size hail fell at Magnolia.									
Hickory Flat, Benton County	7	1610CST			0	0	5	0	Lightning
Lightning struck a 60 year old church in Hickory Flat. The lightning ignited a fire which destroyed the church.									
Chunky, Newton County	8	1315CST			0	0	?	0	Hail (1.75)
Golf ball size hail fell near Chunky.									
Southern Itawamba County	8	1410CST			0	0	?	?	Thunderstorm Winds
High winds blew down trees in southern Itawamba County near the Big Bee Fork.									
3 Miles North of Iuka, Tishomingo County	9	1358CST			0	0	?	?	Hail (.75), Thunderstorm Winds
Dime size hail fell 3 miles north of Iuka. Also, several large trees were blown down by high winds.									
Magnolia, Pike County	10	1415CST			0	0	?	0	Thunderstorm Winds
High winds blew several trees down in Magnolia.									
Clarksdale, Coahoma County	10	1428CST			0	0	0	0	Funnel Cloud
A funnel cloud was sighted near Clarksdale.									
Laurel, Jones County	10	1510CST			0	0	4	0	Thunderstorm Winds
Winds near 60 mph blew down trees and power lines in Laurel. The heaviest damage occurred on Lee Street where some roofs were also damaged.									
Southern Columbia, Marion County	10	1510CST	.50	50	0	0	5	0	Tornado (F0)
A small tornado touched down briefly in the southern portion of Columbia. One mobile home was overturned; several trees twisted and a few uprooted. Six utility poles in a row were snapped off.									
Clinton, Hinds Co.	10	1530CST			0	2	2	0	Lightning
A man and woman were riding on a motorcycle near Clinton when lightning struck their motorcycle. Neither cyclist was hurt seriously, although one received a cut on the leg and the other had metal scraps driven into the back and neck. The paint on the helmets was removed and 3 feet of the antenna was disintegrated. Both of the cyclists considered themselves quite lucky to have lived through the event.									
West of Hattiesburg, Forrest County	10	1535CST			0	0	?	0	Hail (1.00)
One inch size hail fell just west of Hattiesburg.									
South Lauderdale Co.	10	1615CST			0	0	?	?	Thunderstorm Winds
Several trees were blown down by high winds in southern Lauderdale County.									
5 Miles East of Meridian, Lauderdale County	10	1735CST			0	1	?	0	Thunderstorm Winds
High winds blew down a few trees 5 miles east of the Meridian Airport. One of the trees fell on a car and injured the occupant.									
Bay St. Louis and Waveland, Hancock Co.	17	1530CST			0	0	5	0	Thunderstorm Winds
High winds blew down numerous trees and power lines in Bay St. Louis and Waveland. Five people in a sailboat just off the coast of Bay St. Louis were tossed from their boat, but later rescued by the Coast Guard. At least 10 boats in a Bay St. Louis Yacht Club were overturned or damaged.									
Poplarville and Picayune, Pearl River County	17	1720CST			0	0	?	?	Thunderstorm Winds
High winds blew down trees and power lines 12 miles west of Poplarville. Trees and power lines were blown down in the Picayune area from the same storm at 1730CST.									
8 Miles South of Picayune, Hancock Co.	17	1740CST			0	0	?	?	Thunderstorm Winds
A few trees were blown down by high winds 8 miles south of Picayune.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1986

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INURED	PROPERTY	CROPS	
MISSISSIPPI									
Biloxi and Gulfport, Harrison County	25	1433CST			0	0	?	?	Hail (1.75)
									Hail as large as golfballs fell across portions of Gulfport and Biloxi.
14 Miles Northeast of Meridian, Lauderdale County	25	1500CST			0	0	?	?	Thunderstorm Winds
									High winds 14 miles northeast of Meridian uprooted trees, downed power lines, and damaged 1 roof.
23 MISSOURI									
Vernon County	01	1725CST			0	0	0	0	Hail (0.75)
									Hail up to 3/4 inch in diameter fell between Moundville and Bronough.
Vernon County	01	1730CST			0	0	3	0	Thunderstorm Wind
									Wind damage occurred just west of Nevada on Highway 54.
Barton and Vernon Counties	01	1755CST			0	0	3	0	Thunderstorm Wind
									Wind damage occurred near Sheldon along the Barton-Vernon county line.
Greene County	01	1811CST			0	0	5	?	Hail (2.00), Thunderstorm Wind
									Hail up to 2 inches in diameter fell at the Springfield Airport. Some damage to small aircraft resulted from the wind and hail.
Greene County	01	1820CST			0	0	?	?	Hail (1.75)
									Hail up to 1 3/4 inches in diameter fell at Bois D'Arc.
Lawrence County	01	1829CST			0	0	4	0	Thunderstorm Wind
									Wind damage occurred at Nonett.
Greene County	01	1830CST			0	0	6	0	Thunderstorm Wind
									Extensive wind damage was done to trees and some buildings in Republic.
Greene and LeClede Counties	01	1855CST			0	0	4	0	Thunderstorm Wind
									Wind damage occurred at Lebanon and at the airport in Springfield.
Webster County	01	1905CST			0	0	4	0	Thunderstorm Wind
									Winds caused scattered damage to power lines and trees in Webster County.
Webster County	01	1915CST			0	0	4	0	Thunderstorm Wind
									Wind damage occurred in Rogersville and Fordland.
Wright County	01	1928CST			0	0	3	0	Thunderstorm Wind
									Wind damaged trees and lines along Highway 38.
Christian County	01	1930CST			0	0	6	4	Thunderstorm Wind
									Extensive wind damage occurred in and around Ozark. A microwave tower was blown down.
Taney, Ozark, and Douglas Counties	01	1930-2000CST			0	0	6	4	Thunderstorm Wind
									Winds did widespread, scattered damage to trees and power lines across Taney, Ozark, and Douglas Counties.
Wright County	01	1950CST			0	0	4	4	Thunderstorm Wind
									Power lines and trees were downed in Mountain Grove.
Texas County	01	2000CST			0	0	4	0	Thunderstorm Wind
									Power lines and trees were downed at Cabool.
Ozark County	01	2000CST			0	0	3	0	Thunderstorm Wind
									Wind damage occurred around Dora.
Howell County	01	2010CST			0	0	4	0	Thunderstorm Wind
									Trees and power lines were downed in Willow Springs.
Howell County	01	2030CST			0	0	4	0	Thunderstorm Wind
									Wind damage occurred in West Plains.
Oregon County	01	2100CST			0	0	3	0	Thunderstorm Wind
									Winds of up to 60 mph produced tree damage at Thayer.
MISSOURI									
Oregon and Ripley Counties	01	2125CST			0	0	4	0	Thunderstorm Wind
									Scattered wind damage occurred throughout Oregon and Ripley Counties.
McDonald County	08	1155CST			0	0	0	0	Hail (0.75)
									Hail of 1/2 to 3/4 inch in diameter fell near Anderson.
Macon and Shelby Counties (east of Macon to Clarence)	05	1745-1820CST	10	100	0	0	4	3	Tornado (F1)
									A tornado moved from 10 miles east to 20 miles east of Macon, causing intermittent and scattered light tree damage along its discontinuous path.
M02001 Northwest Missouri	12-13	2200-0600CST			0	0	5	5	Flash Flooding
									Flash flooding occurred around Maryville as five inches of rain fell.
24 MONTANA									
MTZ004	08	Before Midnight			2	3			High Wind
									High winds and waves caused two boats to capsize on Holter Lake, killing two men, ages 64 and 27.
25 NEBRASKA									
Dawes County	01	0625CST			0	0	0	0	Funnel Clouds
									Three funnel clouds were sighted south of Chadron State Park 12 miles south of Chadron.
Cherry County	06	1642CST-1655CST			0	0	6	6	Hail (4.0)
									Two to four inch hail fell in Valentine and areas about 5 miles to the north and northeast. Windows were broken out of buildings and roofs damaged. A hole was punched into the roof of a mobile home. Vehicles were dented and had windows broken. Crops sustained heavy damage.
Cherry County	06	1655CST			0	0	0	0	Funnel Cloud
									A funnel cloud was sighted on the west side of Valentine.
Cherry County	06	1815CST-1830CST			0	0	4	4	Thunderstorm Wind, Hail (1.5)
									Winds damaged a home and a garage 10 miles north of Elsmere. One and a half inch hail dented vehicles and damaged crops.
Cherry County	06	1820CST			0	0	0	0	Funnel Cloud
									A funnel cloud was reported north of Elsmere.
Thomas and Cherry Counties	06	1900CST	19	70	0	0	6	4	Tornado (F2)
									A tornado touched down around Elsmere and moved south and west on the ground at intervals, then lifted 6 miles east of Thedford. Irrigation systems were destroyed, hay stacks demolished, and power lines downed between Thedford and Halsey. Fifty wind mills were destroyed, including 17 near Elsmere and 8 west of Purdum. Utility lines were also damaged west of Purdum.
Blaine County	06	1940CST			0	0	4	4	Hail (3.0)
									Three inch hail fell near Dunning, damaging vehicles and crops.
Thomas County	06	1943CST	0.2	25	0	0	4	2	Tornado (F1)
									Tornado touched down for a short distance 2 miles south of Halsey, damaging power lines.
Thomas County	06	1943CST			0	0	0	2	Hail (3.0)
									Three inch hail was reported 2 miles south of Halsey where it did pasture damage.
Platte County	06	2030CST-2050CST			0	0	6	3	Thunderstorm Wind (69)
									Winds estimated 60 to 80 m.p.h. downed numerous trees and power lines from Columbus to Platte Center to Humphrey.
Lincoln County	06	2043CST			0	0	0	0	Funnel Cloud
									A funnel cloud was sighted 10 miles north of Brady.
Custer County	06	2055CST			0	0	?	3	Hail (3.0)
									Three inch hail fell just west of Callaway. Some damage to pastures occurred.
Butler County	06	2055CST			0	0	6	5	Thunderstorm Wind (69)
									Strong winds estimated to 80 m.p.h. did considerable damage to trees, buildings and crops at David City. Five trailer houses were turned over.

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					KILLED	INJURED	PROPERTY	CROPS	

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NEBRASKA

Keya Paha County	06	2110CST			0	0	5	4	Thunderstorm Wind (60), Hail (1.75) Sixty m.p.h. winds and one and three-quarter inch hail caused window and roof damage at Mills. Nearby cornfields were stripped.
Holt County	06	2155CST			0	0	3	3	Hail (1.75) One and three-quarter inch hail fell around Atkinson, damaging some vehicles and crops.
Lancaster County	06	2216CST			0	0	6	4	Thunderstorm Wind (69) Downburst winds of 79 m.p.h. at the Lincoln airport flipped a helicopter over and badly damaged terminal jetways. Many windows in northeast Lincoln were blown out. Numerous boats were badly damaged and blown on shore at Branched Oak Lake 10 miles northwest of Lincoln.
Clay County	06	2340CST			0	0	4	4	Thunderstorm Wind Strong winds downed trees and damaged outbuildings in Glenville.
Boone County	06	2355CST			0	0	3	0	Thunderstorm Wind Winds uprooted trees at St. Edward.
Kearney, Adams, Franklin, and Webster Counties	07	0000CST-0200CST			0	0	6	6	Thunderstorm Wind, Hail (1.75) Winds and hail up to one and three-quarter inches did extensive damage along a 4 to 5 mile wide path near Campbell to south of Holstein and then to east of Red Cloud. Webster County was hardest hit, with over 2 million in crop damage.
Webster County	07	0030CST			0	0	6	3	Hail (3.0) Strong winds and hail upwards to 3 inches in diameter damaged roofs, dented vehicles, and broke building windows and car windshields in Red Cloud.
Clay County	07	0123CST			0	0	4	0	Hail (1.5) One and a half inch hail damaged property in Harvard.
Adams County	07	0127CST-0140CST			0	0	5	4	Hail (1.5) One and a half inch hail fell around Lake Hastings and Holstein, damaging buildings, vehicles and crops.
Clay County	07	0140CST			0	0	3	3	Hail (0.75) Three-quarter inch hail fell in Fairfield.
Clay County	07	0240CST			0	0	4	3	Thunderstorm Wind, Hail Hail and strong winds destroyed 2 small buildings and damaged vehicles in Glenville.
Scottsbluff County	08	1610CST			0	0	5	3	Thunderstorm Wind, Hail (0.75) Strong winds tore down a large grain elevator 10 miles south of Lyman. Three-quarter inch hail also damaged crops.
Banner County	08	1630CST-1745CST			0	0	5	4	Thunderstorm Wind, Hail (0.75) Three-quarter inch hail and 60 m.p.h. winds were reported from 10 miles northwest to 13 miles southeast of Harrisburg. There was damage to roofs and crops.
Banner County	08	1700CST			0	0	5	3	Flash Flood Heavy rain in Harrisburg resulted in flooding which damaged six homes.
Howard County	09	2155CST			0	0	0	3	Hail (1.5) One and a half inch hail fell between St. Paul and St. Liberty, causing some crop damage.
Saline County	11	2200CST			0	0	3	3	Flash Flood Five inches of rain near DeWitt resulted in lowland flooding along Turkey Creek and a portion of the Big Blue River.
Sioux County	11	2219CST			0	0	?	3	Hail (1.5) One and a half inch hail 9 miles west of Fort Robinson damaged rangeland.
Sioux County	11	2233CST			0	0	?	0	Thunderstorm Wind (52) Wind gusts were estimated to 60 m.p.h. just south of Crawford. No reported damage occurred.
Richardson County	12	2145CST			0	0	3	4	Hail (1.5) One and a half inch hail fell just north of Humboldt, damaging crops.
Nemaha and Richardson Counties	12-13	2250CST-0400CST			0	0	6	6	Flash Flood Excessive rains of 5 to 9 inches caused flash flooding from south of Auburn to around Falls City. Reported rainfall included 9 inches southwest of Nemaha, 7.5 inches at Shubert, 7 inches at Peru, and 6.41 inches at Falls City. Heavy damage to roads was reported, with a number of county roads and bridges washed out. Crops were heavily damaged as fields suffered severe soil erosion. Muddy Creek was forced out of banks.

NEBRASKA

Nemaha County	12-13	2315CST-0000CST			0	0	3	5	Hail (1.5) Hail to 1 1/2 inches heavily damaged crops southeast of Auburn and from around Peru to Nemaha.
Richardson County	12-13	2330CST-0000CST			0	0	7	6	Thunderstorm Wind (69), Hail (3.0) Wind gusts estimated 70 to 80 m.p.h. and 1 1/2 to 3 inch hail caused considerable property and crop damage in a swath from Highway 73 north of Falls City to the mouth of the Nemaha River. The winds destroyed barns and sheds, lifted roofs off of other barns, uprooted trees, and damaged utility lines. Some of the trees fell on vehicles and homes. Wind and hail also broke windows, damaged roofs and siding, and dented vehicles.
Banner County	14	1645CST			0	0	?	4	Hail (1.5) Three-quarter to 1 1/2 inch hail from 4 to 10 miles north of Harrisburg damaged crops.
Cass and Saunders Counties	14	1735CST-1900CST			0	0	4	4	Flash Flood Around 4 1/2 inches of rain in less than 2 hours caused urban flooding at Greenwood. Crops were damaged from heavy erosion and ponding water. Other urban flooding was reported at Ashland.
Pawnee County	14	2105CST			0	0	0	3	Hail (1.5) One and a half inch hail at Table Rock caused minor crop damage.
Dixon and Dakota Counties	16	2310CST-2345CST			0	0	5	3	Thunderstorm Wind (61) Winds estimated to 70 m.p.h. uprooted trees and damaged utility lines at Emerson. Homes were also damaged by fallen trees. Other damage was reported at Newcastle, Allen, Dakota City, Hubbard and Homer.
Burt County	17	0017CST			0	0	4	1	Thunderstorm Wind Wind gusts damaged buildings and trees at Lyons.
Buffalo County	18	0930CST			0	0	4	0	Lightning Lightning heavily damaged a church bell tower in Ravenna.
Dodge County	18	1030CST			0	2	0	0	Lightning Just south of North Bend, two highway workers mowing weeds were injured when struck by lightning.
Howard County	18	1054CST			0	0	0	3	Hail (1.0) One inch hail 11 miles north-northwest of Grand Island caused minor crop damage.
Howard County	18	1100CST			0	0	6	4	Hail (1.5) One and a half inch hail fell in St. Paul for 20 minutes, causing considerable damage to vehicles, roofs and trees.
Hall County	18	1155CST			0	0	4	0	Hail (1.5) One and a half inch hail fell at the Grand Island airport, damaging vehicles in the parking lot.
Hamilton County	18	1220CST-1227CST			0	0	5	3	Hail (1.5) One and a half inch hail fell around Aurora and Phillips, causing damage to vehicles, buildings and crops.
Johnson County	18	1800CST			0	0	0	3	Hail (1.5) One and a half inch hail at Cook caused minor crop damage.
Gage County	18	1900CST			0	0	4	5	Thunderstorm Wind, Hail (1.5) One and a half inch hail and strong winds damaged crops 2 miles west of Beatrice. Some trees were uprooted and minor roof damage was reported.
Saunders County	20	1530CST-1730CST			0	0	3	4	Flash Flood Four inches of rain in about 2 hours at Prague caused lowland and street flooding. Some crops were damaged by field erosion.
Saunders County	20	1615CST			0	2	4	0	Lightning Lightning struck a farm home at Weston, injuring two people in a doorway. Windows were blown out of some areas in the home and wiring and appliances sustained damage.
Brown County	31	1500CST	0.1	20	0	0	1	1	Tornado (F0) A small tornado touched down briefly just north of the Ainsworth airport.

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26 NEVADA									
Clark County	11	1500PST			0	0	5	0	Flash Flood
	Heavy convective rains in S. Clark County washed out a section of the Needles road south of Laughlin. 2.5 inches of rain was reported at a scout camp 6 miles south of Laughlin. The road repairs required two days before the road was reopened. Urban street flooding was reported in the towns of Jeans and Searchlight during this storm.								
Eureka County	20	Noon PST			0	0	0	0	Funnel Cloud
	A funnel cloud was sighted and photographed 30 miles south of the town of Eureka at noon. No other information is available.								
Clark County	24	0030PST			0	0	3	0	Thunderstorm wind
	Minor wind damage to the Willow Beach Marina was caused by 60 MPH winds. Willow Beach is south of Boulder City on the Colorado River. No injuries were reported.								
White Pine County	26	1216PST			0	0	0	0	Thunderstorm wind
	A convective wind gust of 52 knots was recorded at the Ely Airport. No injuries or damage was reported.								
Lyon and Nye Counties	26	1735PST			0	0	0	0	Thunderstorms
	A number of other convective weather events occurred in the state on the 26th. These are not reportable individually, but all together are significant since they cover such a large area. Heavy rain and strong winds were reported in Lyon County with some street flooding at 1735PST. A convective gust of 38 knots was reported at Desert Rock in Nye County at 2235PST. Strong winds were also reported at Beatty during the same time frame.								
Nye County	26	2340PST			0	0	0	0	Flash Flood
	Highway 160 southeast of Pahump was reported flooded for a 1/2 mile stretch with 6 inches of water. No lasting damage or injuries were reported.								
Elko County	28	1500PST			0	0	0	0	Heavy Rain
	A mud slide caused by heavy rain blocked the road into Lamaille Canyon. The slide was 6 feet deep and trapped approximately 30 people for 4 hours until the road could be cleared. No injuries or permanent damage was reported.								
27 NEW HAMPSHIRE									
Sullivan County	01	Afternoon			0	0	4		Lightning
	Lightning struck and killed a bull in a barn in Springfield.								
Grafton County	01	Late Night			0	0	5		Thunderstorm
	Saturated ground coupled with torrential downpours from a thunderstorm caused three mudslides in Bristol that made roadways nearly impassable. A banking, along Route 3A, south of Our Lady of Grace Chapel, slid into the highway. The others occurred alongside the newly constructed condominiums at Manor Estates and at Bungalo Village.								
Strafford County	06	1400EST			0	0	4		Lightning
	A lightning bolt set three sections of power lines on fire on Walnut Street, and they fell to the ground. Power was disrupted for about 1 1/2 hours. Another bolt burned a backyard shed on Union Street.								
Carroll County	07	1610EST	1.5	100	0	0	5		Tornado (F1)
	A tornado began near the Wakefield-Effingham town line on the west shore of Province Lake. It took down large trees on Bailey Road and broke boats from their moorings, lifting them out of the water. It moved across Province Lake and reached the Nutter residence on the east shore where many windows, sash and all, were lost, a large shed door was blown in, apple trees were ripped from the ground and moved 50 yards away, and the well house was tipped over. The back side of the barn was badly damaged and set at least ten inches off its foundation. From the Nutter residence, it entered Parsonsfield, Maine where Route 153 meets the state line. The path in New Hampshire was approximately 1 1/2 miles long, of which one mile was over Province Lake. The maximum width was almost 100 yards as it entered Maine. The total length was nearly three miles.								
NEW HAMPSHIRE									
Carroll County	07	1650EST	short narrow		0	0	6		Tornado (F1)
	Eyewitnesses reported a waterspout or tornado moved northeast across Lake Winnepesaukee and hit the shore near the mouth of the Melvin River in the Melvin Village section of Tuftonboro. The National Weather Service survey team said "The tornado was lifting up into the clouds as it made landfall. Trees were twisted off gradually upwards for a distance of 100 feet. The rest of the damage in Melvin Village was from apparent straight-line winds of 80 to 90 mph." Most of the damage was along Route 109 where hundreds of trees were either uprooted or snapped off. These trees fell on power lines, houses and cars, leveled one garage, and impeded travel. Three homes were extensively damaged by the fallen trees and a few buildings were lifted and tilted by uprooted trees.								
Sullivan County	07	1845EST			0	0	5		Severe Thunderstorm
	In the Walpole-Charlestown area, winds during a severe thunderstorm downed 3 to 5 telephone poles and trees up to 18 inches in diameter. About 1,500 Charlestown residences were without power for 1 1/2 hours, and about 75 for 9 hours.								
Sullivan County	07	1930EST			0	0	3		Severe Thunderstorm
	In Lempster, winds from a severe thunderstorm blew two trees down onto a road, blocking traffic.								
Merrimack County	07	2030EST			0	0	5		Lightning
	In Franklin, lightning struck the outside electrical wires and ignited a fire inside the wall of a second story bedroom. The ceiling and wall had to be removed to extinguish the blaze. The fire was contained to one room, but the house received much smoke and water damage.								
Carroll County	07	Night			0	0	5		Lightning
	A lightning-induced fire totally destroyed a barn in Madison.								
Cheshire County	07	Late Night			0	0	5		Thunderstorm
	Saturated soil coupled with heavy downpours during a slow-moving thunderstorm washed out roads in Alstead. Much of Route 123 through Alstead had only one lane open to traffic due to the surging waters of the Cold River. A house on River Road was hit by lightning. There was no fire, but some damage to the wiring was reported. In Keene, another lightning bolt hit a Jordan Road home about 1920EST, punching a hole in the kitchen baseboard and disconnecting the telephone, but no fire ensued.								
Sullivan County	07	Late Night			0	0	5		Thunderstorm
	Saturated soil coupled with heavy downpours during a slow-moving thunderstorm washed out roads in Charlestown and Acworth. Hardest hit was Route 132A in South Acworth which was severely damaged.								
Hillsborough County	17	1530EST			0	0	4		Thunderstorm
	A thunderstorm dropped an inch of rain in about 45 minutes over Nashua, causing local street flooding. Problem areas were Stark, D, Greeley, Temple and Hayden Streets, Hall Avenue, and the Daniel Webster Highway at Silver Drive. Lightning damaged an electrical transformer, knocking out the power for 50 to 60 customers on Kinsley Street.								
Rockingham County	18	0507EST			0	0	3		Lightning
	In Raymond, lightning struck and set fire to a telephone pole at the corner of Christie Court and Prescott Road. The fire was extinguished, but the pole apparently needs to be replaced.								
Hillsborough County	18	1100EST			0	0	5		Thunderstorm
	Nashua again suffered local street flooding for the second day in a row from heavy downpours during a thunderstorm. Several streets and driveways were washed out. The worst flooding occurred at most of the major intersections on Nashua's Daniel Webster Highway which were under more than a foot of water. The deepest was 3 feet at the intersection with Silver Drive.								
Coos County	24	1700EST			1	0	0		Snow and High Winds
	A 52 year old Massachusetts man died from hypothermia and exposure on Mount Madison, elevation 5,363 feet. He was hiking with his 13 year old son and a 16 year old German exchange student. The party reached the summit at 1700EST where the temperature had dropped to freezing and the winds registered 60 mph with gusts to 90 mph. It was sleeting and snow was accumulating. Dense fog also shrouded the summit. The party did not carry packs and were lightly clothed for the trek. The 16 year old made it to the Appalachian Mountain Club's Madison hut. A rescue team found the other two at around 2200EST about 100 yards from the summit. The 52 year old was barely conscious, seriously hypothermic and unable to walk. The barren rocky cone was now covered with rime ice. This, combined with the darkness, steep terrain, fog, sleet and cold, prevented rescuers from bringing him down until Monday morning. The two youths were treated for hypothermia at the hut. Two other hikers were overdue on a roundtrip of Mount Washington, elevation 6,288 feet. They were experienced and well equipped, and								

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NEW HAMPSHIRE									
									tented out Sunday night in a saddle between two exposed summits on the Glen Boulder Ridge trail. A search party found them Monday morning in excellent shape. Mount Washington reported temperatures hovered at freezing, snow and ice covered the summit, and winds gusted to 120 mph Sunday night.
28 NEW JERSEY, Northern									
Somerset County	02	1458EST			0	0	0	0	Funnel Cloud
									A funnel cloud was observed in Basking Ridge as very heavy thunderstorms moved through Somerset County.
Morris County	02	1925EST			0	0	0	0	Thunderstorm Wind
									A severe thunderstorm passed over Morristown Airport. The airport reported winds gusting to 60 knots (69mph).
28 NEW JERSEY, Southern — NONE REPORTED									
29 NEW MEXICO									
Guadalupe County	04	PM			0	0	?	?	Hail
									Marble-size hail fell on Santa Rosa and vicinity. Windows in houses were broken, automobiles were dented, and gardens were destroyed. Some insurance claims were turned in, mostly on automobiles and mobile homes.
Otero County	13	1930MST			2	2	?	0	Flash Flood
									A vehicle with 5 people was driven into flooded county road A-43 at La Luz Creek, just north of Alamogordo. The car was found one mile down the creek and the bodies of two females, two miles from the county road. F32V, F4V
De Baca County	22	PM			0	0	4	4	Thunderstorms Winds/Flash Floods/ Lightning
									High wind and rainfall of up to six inches caused damage to streets, barns, etc., at Fort Sumner.
Hidalgo County	22	2130MST			0	0	?	?	Thunderstorm Winds
									High winds caused a roof to blow off a barn at Lordsburg.
Lea County	26	PM			0	0	4	0	Thunderstorm/ Heavy Rain
									High winds blew off the roof of a church, and heavy rains caused considerable damage inside the church.
Chaves County	31	1830MST			0	0	5	0	Thunderstorm/High Winds
									Damage occurred to the airport and town of Hagerman. One plane was damaged.
30 NEW YORK, Coastal									
Suffolk County	08	0958EST			0	0	0	0	Funnel Cloud
									A pilot on the ground at East Hampton Airport in Suffolk County observed three funnel clouds north of the airport.
30 NEW YORK, Central									
Cortland County	01	1430EST			0	0	4	0	Flash Flood
									Hoxie Road in Cortlandville was rendered impassable by a flash flood. Also damaged were two (2) homes. One (1) family stayed the night in their home while surrounded by flood waters. Small, pea size hail was also reported with the downpour.
Albany County	01	1800EST			0	0	6	0	Flash Flood
									Stationary thunderstorms dumped several inches of rain in the areas upstream of the village of Altamont; the resulting flood caused approximately 1/2 million dollars worth of damage.
Orange County	01	Unk			0	0	5	0	Lightning
									Approximately 5000 homes were without power due to frequent lightning strikes in Orange County.
Schenectady County	02	1500EST			0	0	7	0	Flash Flood
Schenectady County	02	1600EST			0	0	4	0	Mudslide
									Very slow-moving thunderstorms assaulted the Capital District for a second day, this time causing flooding in the Schenectady-Scotia-Glenville area of Schenectady County.
Hamilton County	03	1615EST			0	0	4	4	High Winds
Hamilton County	03	1615EST			0	0	0	0	Hail (0.75)
Albany County	03	1610EST			0	0	3	3	Hail (0.75)
Rensselaer County	03	1629EST			0	0	3	3	High Winds
									A thunderstorm with strong winds and 3/4 inch hail hit the village of Hamilton. Winds bent a new steel flag pole, and uprooted trees. Other severe thunderstorms struck the Capital District, downing trees and producing 3/4 inch hail.
Broome County	06	1700EST			0	1	5	0	Flash Flood
									The Oquaga, Big Hollow Creek and the Bone Creek overflowed their banks and caused extensive flooding in parts of the village of Deposit and Windsor.
Onieda County	07	1335EST			0	0	3	0	High Winds
Saratoga County	07	1428EST			0	0	0	0	Hail (1.0)
Saratoga County	07	1450EST			0	0	2	2	Hail (2.5)
Saratoga County	07	1500EST			0	0	0	0	Hail (1.0)
Saratoga County	07	1500EST			0	1	3	0	Lightning
Washington County	07	1515EST			0	0	0	3	High Winds
Herkimer County	07	1603EST			0	0	0	0	Hail (0.75)
Hamilton County	07	1603EST			0	0	2	2	High Winds
Washington County	07	1618EST			0	0	2	0	High Winds
Washington County	07	1620EST			0	0	2	2	High Winds
Onieda County	07	1622EST			0	0	4	0	Lightning
Warren County	07	1630EST			0	0	2	2	High Winds
Madison County	07	1636EST			0	0	3	0	High Winds
Clinton County	07	1640EST			0	0	4	0	Lightning
Madison County	07	1645EST			0	0	3	0	Flood
Onieda County	07	1645EST			0	0	4	0	Lightning
Onieda County	07	1645EST			0	0	3	0	Flood
Onieda County	07	1645EST			0	0	3	0	High Winds
Fulton County	07	1655EST			0	0	2	2	Hail (1.0)
Fulton County	07	1655EST			0	0	4	2	High Winds
Herkimer County	07	1730EST			0	0	4	0	Lightning
Saratoga County	07	1755EST			0	0	0	0	Hail (1.0)
Fulton County	07	1810EST			0	0	0	2	High Winds
Washington County	07	1815EST			0	0	0	0	Hail (0.5)
Montgomery County	07	1808EST			0	0	2	2	High Winds
Saratoga County	07	1835EST			0	0	0	0	Hail (0.75)
Schenectady County	07	1835EST			0	0	3	4	High Wind
Schenectady County	07	1845EST			0	0	3	0	Lightning
Albany County	07	1935EST			0	0	0	0	Hail (0.75)
Rensselaer County	07	1945EST			0	0	0	0	Hail (0.75)
									Golf ball size hail and strong gusty winds created havoc for local power companies. An electrical storm killed power to the village of Herkimer and was blamed for a garage fire in Illion. The storm also felled many large trees in Herkimer County, the result of strong, gusty winds.
Onieda County	07	1600EST			0	0	4	0	Flash Flood
									Heavy downpours created minor flood problems in Rome-New London areas.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1986

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
NEW YORK, Central									
Albany County	07	1600EST			0	0	6	4	Flash Flood
Saratoga County	07	1600EST			0	0	6	4	Flash Flood
Schenectady County	07	1600EST			0	2	7	0	Flash Flood
Washington County	07	1630EST			0	0	5	0	Flash Flood
Warren County	07	1630EST			0	0	4	0	Flash Flood
	<p>Rainfall for the past few days set the stage for Saturday afternoon's flood. Thunderstorms continued to move over the same area for several hours. Many reports indicated that up to eight (8) inches of rain was received on Saturday afternoon; lightning detectors indicated up to 10,000 ground strikes in the Capital District during the storm. The rain was so intense that boats on Saratoga Lake sank from the rainfall.</p> <p>Extensive flooding occurred in southern and eastern portions of Saratoga County and most of Schenectady County, as well as in the hill towns of Albany County. Damages in the millions of dollars were reported. For some areas, this was the second flash flood event in approximately a week's time.</p> <p>For the first time in history, racing at the Saratoga Race Track was stopped, and in some cases, people were taken out by boats. Washout Road in Schenectady County suffered a major flood almost 100 years ago to the day; it is located over the Washout Creek. Other major streams which flooded included: the Normanskill, Bozenkill, Schylerkill, Moccasinkill, and the Krome Kill.</p> <p>A mud slide was reported near Exit 26 of the New York State Thruway.</p>								
Washington County	14	1830EST			0	1	5	4	Lightning
	Lightning resulted in a barn fire.								
St. Lawrence County	15	1730-1745EST	Unk	Unk	1	3	5	4	Tornado (F2)
	<p>A tornado was sighted by four (4) persons in the Somerville-Gouverneur area. Thousands of trees were downed, four (4) barns destroyed, one (1) man and two (2) horses killed, and many homes damaged or destroyed.</p> <p style="text-align: center;">M-29-0</p>								
Onieda County	15	1815EST			0	0	4	0	Lightning
Onieda County	15	1842EST			0	0	4	0	Lightning
Herkimer County	15	1908EST			0	0	4	0	Flash Flood
Herkimer County	15	1908EST			0	0	4	0	Lightning
Herkimer County	15	1910EST			0	0	3	0	High Winds
Otsego County	15	2030EST			0	0	4	4	Lightning
	<p>A small bridge on the county line was washed away by a flash flood of a small creek. Blackouts were also reported in the Alder Creek, Forestport-Woodgate-Poland area, as well as the Camden-Lee area of Onieda County.</p>								
Madison County	15	Unk-PM			0	0	5	5	Downburst Wind
	Downburst winds knocked over two (2) silos and shattered several farm outbuildings. Less than one (1) mile northeast of the main damage area, a stand of poplars were also knocked down.								
Otsego County	17	Unk-PM			0	0	5	0	Flash Flood
	Heavy rains washed down a mountain side near Oneonta.								
Herkimer County	18	1530EST			0	0	5	0	Flash Flood
	For the second time in a month, flash flooding hit Middleville.								
Dutchess County	21	1825EST			0	1	4	0	Flash Flood
	Loose gravel and sand washed out during a heavy downpour, causing a road surface to sink by two (2) feet. One (1) man was slightly injured trying to escape from his car.								
Fulton County	23	2220EST	Unk	Unk	0	1	4	5	Tornado (F1)
	<p>A tornado touched down in the town of Caroga late Saturday night; damaged were several summer camps, boats, a boat house and hundreds of trees. The main power feed cable and telephone cables were also damaged. One (1) woman reported being partially sucked out of her living room window. One metal shed was also found wrapped around a tree, approximately 100 feet above ground. No site investigation was done, but the event was classified a tornado due to an eyewitness' observation.</p>								
30 NEW YORK, Western									
Chautauque & Cattaraugus Counties	01	0940 EST			0	0	7	0	Rain
	<p>Thunderstorms pounded a 15-mile wide strip from Dunkirk (Chautauque County) eastward to northern Cattaraugus County. They caused Canadaway Creek (Chautauque County) and Thatcher Brook (Cattaraugus County) to inflict widespread property damage from flash flooding.</p> <p>Thatcher Brook scoured its banks, undermined a half-mile stretch of Route 62, washed out 3 private bridges, eroded large areas of land, and flooded residential streets of Gowanda where water got up to 5 feet deep. More than 200 homes suffered flood damages. A newspaper set the loss at \$1 million.</p> <p>Canadaway Creek damaged 101 homes, 19 bridges, and 11 businesses, in addition to roads and a few public buildings. Uninsured damages alone amounted to \$6.0 million. There was no report on the amount of loss to insured property, but this is believed to be high also.</p> <p>There were no known injuries and deaths directly attributable to the flood. However, an indirect casualty from drowning occurred when 2 kid brothers were swept away into Lake Erie by water pushing from a sewer pipe at Wright Park Beach. Jumping in to the rescue, their father was able to push both kids back to safety, but he later submitted to the strong currents.</p>								
Niagara County	01	1930 EST			0	0	3	5	Hail (1.50)
	Hail damaged gardens and broke tree limbs in Youngstown and Cambria. It also damaged tomatoes and apples in Newfane and Sanborn.								
Erie County	03	0500 EST			0	0	4	0	TSTM Wind
	Trees were downed in Grand Island. A large maple tree was downed in the town of Williamsville.								
Genesee & Monroe Counties	03	1640 EST			0	0	3	5	TSTM Wind and Hail (1.50)
	Strong winds downed trees in the town of Bergen, Genesee County; and in Churchville, Chittenden, and Henrietta, all in Monroe County.								
Oswego & Cayuga Counties	07	1315 EST			0	0	5	0	TSTM Wind, Hail (1.00), & Lightning
	Thunderstorms downed trees and power lines in Port Byron and Weedsport in Cayuga County. Lightning ignited a house in Weedsport and caused \$4000 damage.								
	Hail and damaging winds were reported at Hannibal and Granby, Oswego County where uprooted trees damaged homes, cars, and businesses. More than 1500 homes were without power for several hours.								
Onondaga County	07	1615 EST			0	0	4	0	TSTM Wind
	Thunderstorms felled trees and severed power lines in North Syracuse.								
Lake Ontario near Orleans County	11	0600 EST			1	0	4	0	High Wind
	At Braddock Bay, waves of up to 6 feet capsized a boat, killing a passenger. M370								
Oswego, Onondaga, Tompkins, Tioga, Seneca, & Schuyler Counties	15	1730 EST			0	0	4	0	TSTM Wind, Lightning, & Rain
	Thunderstorms toppled trees and snapped electrical wires in Valney, Fulton, Williamstown, West Monroe, and Palermo, all in Oswego County; and in parts of Tompkins, Seneca, Tioga, and Cayuga Counties.								
	A bolt of lightning struck a power line outside a storage building in Syracuse, causing a small fire in the cellar.								

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1986

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

NEW YORK, Western

NYZ001 Genesee & Wyoming Counties	26 1900 EST	0 0 3 0	High Wind	A cold front with gusts of up to 52 miles an hour moved across the area. It downed trees and power lines in portions of these counties.					
NYZ021-022 Chautauque and Niagara Counties	Jun., Jul., & Aug.	0 0 0 6	Rain	Unusually high rainfall during these 3 months is blamed for the poor quality of hay and the low yield of corn, wheat, tomatoes, grapes, and other crops.					

31 NORTH CAROLINA

10 E Topsail Beach, Pender County	01 0921EST	0 0 0 0	Waterspout	A waterspout moving northeast was observed by the public.					
Roxboro, Person County	02 1740EST	0 0 5 0	Thunderstorm Winds	A severe thunderstorm developed over Roxboro during the early evening, and caused substantial damage in the town. The roof of a car dealership was removed, and several other buildings were damaged. Damage was estimated at over \$100,000 in town. The storm moved slowly south through the county, and then moved into Durham County. Trees were blown down near Rougemont and Bahama, and then over much of the rest of the county. In the city of Durham many trees were blown down, some onto houses and cars. Numerous power outages were also reported. A storm also moved across much of Warren County, blowing down trees, limbs, and power lines. And a storm in Moore County caused trees to be blown down. The storms in the Durham area slowly moved into western Wake County. 53 knots were measured at the Raleigh-Durham airport, where several airplanes suffered minor damage, and a more severe storm near Apex tore down farm buildings, causing about \$15,000 in damage. Power lines were torn down at Spring Hope and Whitakers as a storm moved across Nash County.					
Southern Person County	02 1830EST	0 0 ? ?	Thunderstorm Winds						
Northern Durham County	02 1905EST	0 0 3 ?	Thunderstorm Winds						
Durham County	02 1920EST	0 0 4 0	Thunderstorm Winds						
Vass, Moore County	02 1930EST	0 0 ? ?	Thunderstorm Winds						
Lake Wheeler Area, Wake County	02 1930EST	0 0 ? 0	Hail (1.00)						
Durham, Durham County	02 1935EST	0 0 4 0	Thunderstorm Winds						
Warren County	02 1940EST	0 0 ? ?	Thunderstorm Winds						
RDU, Wake County	02 2003EST	0 0 3 0	Thunderstorm Winds (53)						
3 SE Apex, Wake County	02 2030EST	0 0 4 0	Thunderstorm Winds						
Spring Hope, Nash County	02 2040EST	0 0 3 0	Thunderstorm Winds						
Whitakers, Nash County	02 2115EST	0 0 3 0	Thunderstorm Winds						
Hubert, Onslow County	03 1415EST	0 0 0 ?	Thunderstorm Winds						
Gibson, Scotland County	03 1500EST	0 0 2 0	Thunderstorm Winds						
E of Maysville, Jones County	03 1540EST	0 0 0 0	Thunderstorm Winds						
Pembroke, Robeson County	03 1600EST	0 1 4 ?	Thunderstorm Winds						
Belmont, Mt. Holly, McAdenville, Gaston County	03 1750EST	0 0 4 0	Thunderstorm Winds						
Western Mecklenburg County	03 1810EST	0 0 3 0	Thunderstorm Winds						
SE Charlotte, Mecklenburg County	03 1815EST	0 0 3 0	Thunderstorm Winds						
Pineville, Mecklenburg County	03 1834EST	0 0 0 0	Thunderstorm Winds						
Indian Trail, Union County	03 1850EST	0 0 0 ?	Hail (0.75)						

The first report of severe weather was at Hubert in Onslow County where trees were uprooted. Power outages were reported at many locations across Onslow County. At Gibson in Scotland County, trees and television antennas were blown down. Trees were blown down east of Maysville along Highway 58, and a severe storm affected the town of Pembroke in Robeson County. Here, a man was slightly injured when a power pole was blown across his car, part of a school's roof was torn off, a dormitory at Pembroke State was damaged, and many trees and power lines were blown

NORTH CAROLINA

Lexington, Davidson County	05 1430EST	1 0 4 0	Lightning	down. Residents were without power for as much as 3 to 4 hours after the storm. In the piedmont, other storms were responsible for damage. A very severe storm affected much of eastern Gaston County. Dozens of trees were blown down in the Belmont, Mt. Holly, and McAdenville areas. At McAdenville, a smokestack was blown off at a mill, trees up to 4 feet in diameter were uprooted or blown down, a truck trailer was blown over, and the windows were blown out of a pickup truck. As the storms moved to the east, reports of downed trees and limbs were received from several locations in Mecklenburg County, and dime size hail was reported at Indian Trail in Union County.					
Denver, Gaston County	06 1207EST	0 0 ? ?	Hail (0.75)	A man was struck by lightning as he sat on a lawn mower. He died about 20 minutes later. The same storm caused other problems in the city, including a few house fires and many power outages. Lightning M600.					
Southern Mecklenburg County	06 1340EST	0 0 ? ?	Thunderstorm Winds (52)						
Madison to Stoneville, Rockingham County	06 1447EST	0 0 3 ?	Thunderstorm Winds						
Northern Surry County	06 1545EST	0 0 5 5	Thunderstorm Winds, Hail (1.75), Lightning						
Dime size hail was reported at Denver in Gaston County, and a gust to 52 knots was measured in southern Mecklenburg County. Storms of greater intensity were observed in the Northwest Piedmont. Trees were blown down at several locations in Rockingham County, and in Surry County, a storm swept across most of the northern half of the county. \$300,000 damage to tobacco was caused by hail up to golfball size, lightning caused houses to be destroyed by fire, and trees and power lines were blown down.	07 1600EST	0 0 3 0	Thunderstorm Winds						
Morganton, Burke County	07 1635EST	0 0 4 0	Thunderstorm Winds						
S of Hickory, Catawba County	07 1730EST	0 0 2 ?	Thunderstorm Winds						
NE of Lincolnton, Lincoln County	07 1830EST	0 0 3 0	Thunderstorm Winds						
Statesville, Iredell County	07 1836EST	0 0 ? ?	Thunderstorm Winds (50)						
Dallas, Gaston County	07 1900EST	0 0 4 ?	Thunderstorm Winds						
Southeastern Caldwell County	07 1903EST	0 0 0 0	Hail (0.75)						
Charlotte, Mecklenburg County	07 1923EST	0 0 3 0	Thunderstorm Winds						
Charlotte, Mecklenburg County	07 1923EST	0 0 3 0	Thunderstorm Winds						
South of Hickory, at Maiden, a portion of the roof of a house was blown off, and trees were blown down. About a dozen large trees were uprooted, and shingles were blown off a house just northeast of Lincolnton. At Statesville, the roof of a mobile home was removed and blown against some vehicles. Some large trees were blown across power lines. Trees and power lines were blown in much of southeast Caldwell as a storm moved through that area. Similar damage was reported in and near Morganton in Burke County. A gust to 50 knots was reported by spotters at Dallas in Gaston County, and dime size hail fell and at least 20 trees were blown down as a severe storm slowly moved across Charlotte and Mecklenburg County.	10 1438EST	0 0 3 0	Thunderstorm Winds						
Cary, Wake County	10 1515EST	0 0 ? ?	Thunderstorm Winds						
Louisburg, Franklin County	10 1530EST	0 0 3 0	Thunderstorm Winds						
Greenville, Pitt County	10 1610EST	0 0 ? ?	Thunderstorm Winds						
3 S Brinkleyville, Halifax County	10 1622EST	0 0 3 0	Thunderstorm Winds						
Kenly, Johnston County	10 1630EST	0 0 3 0	Thunderstorm Winds						
Farmville, Pitt County	10 1705EST	0 1 4 0	Thunderstorm Winds						
5 S Mount Airy, Surry County	10 1715EST	0 0 ? ?	Thunderstorm Winds						
5 W Tarboro, Edgecombe County	10 1715EST	0 0 ? ?	Thunderstorm Winds						
A severe thunderstorm developed over Cary and blew down limbs and damaged a railroad crossing gate. A number of trees and power lines were blown down at Louisburg in Franklin County. The wind blew out windows in stores and blew down power lines at Greenville in Pitt County. A 1/4 mile long swath of trees was blown down by downburst winds in Halifax County, and trees were blown onto a car at Kenly in Johnston County. A barn was destroyed by winds at Farmville, and trees were blown down 5 miles west of Tarboro. Perhaps the most damage was in Surry County, from the Holly Springs community (5 south of Mount Airy) to the Westfield area. A building used as a church was almost destroyed by wind, and part of a trailer was severely damaged. A child was cut badly when a storm door blew in at a house.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1986

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					KILLED	INJURED	PROPERTY	CROPS	
NORTH CAROLINA									
Near Wilton, Granville County	11	1340EST			0	0	?	?	Thunderstorm Winds, Hail (0.75)
2 S Kittrell, Vance County	11	1345EST			0	0	?	?	Thunderstorm Winds
Central Orange County	11	1415EST			0	0	?	?	Thunderstorm Winds
5 W to N of Chapel Hill, Orange County	11	1430EST			0	0	3	?	Thunderstorm Winds
Durham, Durham County	11	1438EST			2	5	5	0	Thunderstorm Winds, Lightning
Cleveland, Rowan County	11	1523EST			0	0	0	0	Thunderstorm Winds
Ingleside, Franklin County	11	1540EST			0	0	0	?	Hail (0.75)
S of Bobbitt, Franklin County	11	1600EST			0	0	?	?	Thunderstorm Winds
Chapel Hill, Orange County	11	1730EST			0	0	5	0	Thunderstorm Winds
Eastern Wayne County	11	1730EST			0	0	3	0	Thunderstorm Winds
Raleigh, Wake County	11	1820EST			0	0	5	0	Thunderstorm Winds
Castoria, Greene County	11	1842EST			0	0	3	?	Thunderstorm Winds
Farmville, Pitt County	11	1900EST			0	0	3	?	Thunderstorm Winds
Near Elevation, Johnston County	11	1910EST			0	0	?	0	Thunderstorm Winds
<p>A severe storm developed in the northeast Piedmont and produced large hail near Wilton in Granville County. Trees were blown across roads in the same area. Similar damage was reported near Kittrell in Vance County. One of the most severe storms of the season developed quickly in Orange County in mid afternoon when trees were blown across roads between Hillsborough and Chapel Hill. As the storm moved across the county, it gained strength and blew down numerous trees and some power lines in the Chapel Hill area. A van was blown off the road north of town. This storm produced the most damage, however, as it accelerated into Durham County. According to some residents, the city of Durham experienced the worst thunderstorm in over 30 years. Damage was far more widespread than damage from the tornado in April of 1984. Windows were blown out of cars in the downtown area, and numerous trees were blown down across the city. Some houses were virtually destroyed by falling trees. One woman died when she tried to exit her car, which had become entangled in power lines blown down in the storm. More than 30,000 residents were without power, some for more than 24 hours. Lightning was also severe, and was responsible for the death of a girl playing under a tree just before the brunt of the storm hit. 5 people at the same location were injured by the same stroke. An isolated storm in Rowan County blew down a few trees at Cleveland. In Franklin County, the storms that affected Durham produced large hail at Ingleside, and blew down trees near Bobbitt. Storms were responsible for quite a bit of damage (trees and power lines blown down) in the eastern part of Wayne County, and also in Pitt County where trees were blown onto buildings at Farmville. Quite a bit of damage was reported from Castoria in Greene County. Numerous trees and power lines were blown down there. A second severe storm hit Chapel Hill, and damage in Orange County was worse than from the earlier storm. Power lines west of town were blown down by winds estimated at more than 80 mph, and of course most damage in town resulted from trees falling onto cars, buildings, and power lines. This area of storms moved into the Wake County area. The city of Raleigh experienced a very severe storm. Trees were blown down at 20 locations in the city, and some homes and businesses were damaged by the wind. This storm moved slowly across the city, and produced damage from about 1800EST to 1840EST. Lightning F70, Wind F25V.</p>									
Pamlico Sound, Hyde & Dare Counties	12	1230EST			0	0	0	0	Waterspouts
Sanford, Lee County	12	1745EST			0	0	5	0	Flash Flood
<p>6 to 8 waterspouts were reported in the sound. No boats were damaged, but some were close to the action. At Sanford, rainfall of 5 to 7 inches (unofficial) in a short period of time caused Buffalo Creek to go out of its banks, flooding some homes, vehicles, and businesses. A funeral home apparently suffered the most damage.</p>									
Emerald Isle, Carteret County	13	0850EST			0	0	0	0	Waterspouts
<p>Waterspouts were observed over the ocean south of the area.</p>									
Core Sound, Carteret County	16	1230EST			0	0	0	0	Waterspout
<p>A waterspout was observed by the public.</p>									
NORTH CAROLINA									
NC2001-002-016-017	17	0600EST-1500EST			1	0	6	6	Hurricane Charley
<p>The hurricane moved rather quickly up the coast, causing \$3 million in damage to property and crops, mostly in the northeastern sections of the state. One woman was killed at Nags Head when her car was swept off the road into a canal. Most property damage resulted from high winds, while most crop damage resulted from the combination of wind and flooding of fields. FSIV.</p>									
Rutherford, Polk, Henderson, Buncombe Counties	17	1215EST-1830EST			0	0	?	?	Flash Flood
<p>3 to 5 inches of rain fell in parts of the mountains causing small stream and urban flooding in the above areas.</p>									
Raleigh, Wake County	18	2015EST			0	0	5	0	Flash Flood
<p>Several cars were damaged and some business suffered flood damage when an estimated 5 inches of rain fell in the northern parts of Raleigh in about a 2 hour period.</p>									
New Bern & Havelock, Craven County	19	0630EST-0900EST			0	0	?	?	Flash Flood
Wilmington, New Hanover County	19	0700EST			0	0	4	0	Flash Flood
Jones County	19	0900EST			0	0	?	?	Flash Flood
<p>Rather unusual flooding occurred in parts of southeastern North Carolina as heavy thunderstorms dumped as much as 8 inches of rain in a few hours. Most severe was urban flooding in Wilmington and also in the New Bern area. Many accidents were reported because of water covering the roads.</p>									
Pinehurst & Taylortown, Moore County	20	0600EST-1200EST			0	0	?	0	Flood
Sanford, Lee County	20	0800EST			0	0	?	0	Flash Flood
Durham, Durham County	20	1041EST			0	0	5	0	Flash Flood
5 E Benson, Johnston County	20	1110EST			0	0	4	?	Thunderstorm Winds
1/2 SE GSB, Wayne County	20	1156EST	1	25	0	0	5	0	Tornado (F2)
Near Kenly, Johnston County	20	1210EST			0	0	3	0	Thunderstorm Winds
Eastern Wayne County	20	1215EST			0	0	4	0	Thunderstorm Winds
Raleigh, Wake County	20	1230EST			0	0	6	0	Flash Flood
1 W Conway, Northampton County	20	1320EST			0	0	3	0	Thunderstorm Winds
Tide Cross, Bertie County	20	1345EST	Short	15	0	0	0	0	Tornado (F0)
<p>Flooding began early in the day as heavy thunderstorms dumped heavy rain over saturated ground in central sections of the state. In the sandhills, some families were forced from their homes in Pinehurst and Taylortown. The Little Buffalo and Buffalo Creeks overflowed their banks in Sanford, causing problems there. Quite a few cars were flooded by the creeks. From 3 to 8 inches of rain fell in about 3 hours as thunderstorms formed rapidly and moved again and again over the Durham and Raleigh areas. Urban flooding became quite severe in Durham. 30 streets were closed by the water, and some cars floated. In Raleigh, Crabtree Creek flooded causing the worst flooding in the city in about 10 years. Apartments and businesses were flooded, and about 20 cars were destroyed by the water. Other creeks also flooded, and flooding was reported from Cary, Fuquay-Varina, and Garner - all in Wake County. Some of the storms became severe. High winds tore down some outbuildings and power lines as a storm moved across Johnston County. An intense storm produced a small tornado near Seymour-Johnson AFB. This storm tore the roof off a house, and severely damaged several mobile homes in a sales lot. Businesses in the same area were also damaged by the storm. In the eastern part of Wayne County, power lines were torn down by the wind. Similar storms damaged sheds and power lines near Conway, and a small tornado was observed by a sheriff's deputy in the Tide Cross area of Bertie County. This storm caused no damage.</p>									
Grassy Creek, Ashe County	22	2300EST			0	0	4	?	Flash Flood
<p>A sudden deluge of 5 inches of rain washed out bridges, tore down fences and flattened crops near the Virginia line.</p>									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1986

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					KILLED	INJURED	PROPERTY	CROPS		
NORTH CAROLINA										
Hillsborough & Orange Grove, Orange County	27	1419EST		0	0	?	0		Thunderstorm Winds, Hail (0.75)	
3 N Durham, Durham County	27	1435EST		0	0	?	0		Thunderstorm Winds	
Saxapahaw, Alamance County	27	1500EST		0	0	3	0		Thunderstorm Winds	
Siler City, Chatham County	27	1504EST		0	0	3	0		Thunderstorm Winds, Hail (1.50)	
Durham and Durham County	27	1505EST		0	0	4	0		Thunderstorm Winds	
Clayton, Johnston County	27	1700EST		0	0	0	0		Hail (1.75)	
Near Selma, Johnston County	27	1710EST		0	0	3	0		Thunderstorm Winds	
Clinton Area, Sampson County	27	1800EST		0	0	?	0		Thunderstorm Winds	
	<p>A severe thunderstorm moved across much of Orange County, but affected only a few heavily populated areas. Dime-sized hail was observed near Hillsborough, and trees and power lines were blown down at Orange Grove. A nearby storm caused damage of a similar nature in Alamance County. The storms moved into Durham where trees and power lines were blown down and some windows were blown out. Numerous trees were blown down and ping-pong ball size hail was observed at Siler City in Chatham County. Golfball hail fell near Clayton and limbs were blown out of trees near Kenly, both in Johnston County. Trees and power lines were blown down by a violent storm near Clinton.</p>									
Durham, Durham County	28	0340EST		0	0	?	0		Hail (1.75)	
	<p>An early morning severe thunderstorm produced golfball-sized hail near the South Square Mall.</p>									
32 NORTH DAKOTA										
Bettinger Co, New England	04	1620CST		0	0	0	0		Hail (1.00)	
	<p>1-inch hail was reported by a Ham radio operator.</p>									
Renville Co, 4E Sherwood	05	1235CST							Funnel	
Stutsman Co, 14SW Jamestown	05	1255CST							Funnel	
Morton Co, Glen Ullin	13	1415CST							Funnel	
McIntosh Co, 15SW Wishek	13	1500CST		0	0	4	4		Hail (0.88)	
	<p>Quarter-sized hail, combined with 2 to 3 inches of rain, damaged cropland.</p>									
Grand Forks Co, Grand Forks	14	1801CST		0	0	0	0		Tstm. Wind (58)	
	<p>A wind gust of 67 mph was recorded at the Grand Forks airport. The high winds forced a hot air balloon, about to land, down into a muddy field. There were no injuries.</p>									
Morton Co, 7NE Glen Ullin	19	1645CST		0	0	0	0		Hail (1.75)	
	<p>Golfball-sized hail was reported by law enforcement personnel.</p>									
Oliver Co, SS Center	19	1645CST		0	0	0	0		Hail (1.75)	
	<p>Golfball-sized hail was reported by law enforcement personnel.</p>									
Morton Co, New Salem	19	1700CST		0	0	4	0		Tstm. Wind (52)	
	<p>Winds up to 60 mph damaged a grain elevator and scattered large hay bales.</p>									
Morton Co, Flasher	19	1733CST		0	0	0	0		Tstm. Wind (52)	
	<p>Wind gusts to 60 mph were reported.</p>									
Burleigh Co, Bismarck	19	1753CST		0	0	0	0		Hail (0.75)	
	<p>3/4-inch hail occurred at the Bismarck airport.</p>									
33 OHIO										
Trumbull County	01	1438EST		0	0	3	0		Hail (1.0)	
	<p>Nickle-sized hail occurred in Bristolville.</p>									
Clermont County	06	1340EST		0	0	4	0		Thunderstorm Wind	
	<p>A thunderstorm felled trees in Batavia.</p>									
Mahoning County	06	1425EST		0	0	4	0		Thunderstorm Wind	
	<p>A thunderstorm toppled several trees near Boardman.</p>									
Columbiana County	06	2045EST		0	0	4	0		Hail (1.75)	
	<p>Golfball sized hail dropped on Salineville.</p>									
Monroe County	07	1920EST		0	0	4	0		Thunderstorm Wind	
	<p>A thunderstorm knocked over trees at scattered locations in the county.</p>									
Henry County	26	1227EST		0	0	3	0		Hail (.75)	
	<p>Large hail fell on Malinta.</p>									
Erie County	26	1445EST		0	0	3	0		Thunderstorm Wind	
	<p>A thunderstorm uprooted several trees about 3 miles south of Sandusky.</p>									
Lorain County	26	1455EST		0	0	5	0		Thunderstorm Wind	
	<p>A thunderstorm destroyed trees and caused structural damage at scattered locations in the county.</p>									
Lorain County	26	1515EST	3	440	0	2	6	0	Tornado (F2)	
	<p>A tornado set down about 4 miles south of downtown Lorain. The storm traveled northeast and lifted off in the extreme southeast corner of Lorain. Ten fixed homes were destroyed or severely damaged, while 80 apartments and an elementary school suffered varying degrees of damage.</p>									
Cuyahoga County	26	1530EST		0	0	4	0		Thunderstorm Wind	
	<p>A thunderstorm downed trees, especially in Westlake, North Olmsted, and Lakewood.</p>									
Fulton County	26	1830EST		0	0	4	0		Thunderstorm Wind	
	<p>A thunderstorm caused structural damage and felled trees at several locations in the county.</p>									
Williams County	26	1832EST		0	0	4	0		Thunderstorm Wind	
	<p>A thunderstorm blew a house trailer off its foundation.</p>									
Defiance County	26	1900EST		0	0	4	0		Thunderstorm Wind	
	<p>Trees in the city of Defiance were knocked over by a thunderstorm.</p>									
Van Wert County	26	1920EST		0	0	5	0		Thunderstorm Wind	
	<p>A thunderstorm destroyed or heavily damaged 4 house trailers, barns, and a fixed house.</p>									
Paulding County	26	1930EST		0	0	4	0		Thunderstorm Wind	
	<p>A thunderstorm destroyed trees in Tipton.</p>									
Allen County	26	2000EST		0	0	4	0		Thunderstorm Wind	
	<p>A thunderstorm felled several trees about 10 miles northwest of Lima.</p>									
Mercer County	26	2005EST		0	0	4	0		Thunderstorm Wind	
	<p>A thunderstorm downed trees in Mendon and Rockford.</p>									
Auglaize County	26	2030EST		0	0	4	0		Thunderstorm Wind	
	<p>A thunderstorm toppled several trees in Uniopolis. Winds of up to 79 miles an hour were observed at the Neil Armstrong Airport near New Knoxville. A hangar was badly damaged at the airport.</p>									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1986

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	
34 OKLAHOMA											
Tulsa County	01	1710CST			0	0	?	?	Hail (3.00)		
Wagoner County	01	1715CST			0	0	?	?	Hail (2.75)		
Woods County	01	1805CST			0	0	?	?	Hail (1.75)		
Alfalfa County	01	1840CST			0	2	4	?	Tstm. Wind		
Woods County	01	1847CST			0	0	?	?	Tstm. Wind		
Alfalfa County	01	1900CST			0	0	5	?	Tstm. Wind		
Woodward County	01	1908CST			0	0	0	0	Wind		
Grant County	01	1945CST			0	0	5	0	Tstm. Wind		
Kay County	01	2045CST			0	0	5	0	Tstm. Wind		
Garfield County	01	2055CST			0	0	?	0	Tstm. Wind		
Pawnee County	01	2155CST			0	0	?	?	Tstm. Wind		
Creek County	01	2230CST			0	0	?	?	Tstm. Wind		
Ottawa County	01	2345CST			0	0	?	?	Tstm. Wind		
											Thunderstorms produced hail up to 3 inches in Tulsa and Wagoner Counties and winds up to 80 mph across northern sections of the state. Winds up to 60 mph occurred at Woodward, but were not associated with a thunderstorm. The thunderstorm winds downed trees and power lines, destroyed several barns and outbuildings, and did light damage to shingles. Part of a roof was taken off of a school in Lamont. A mobile home was destroyed near Lambert, injuring two occupants. Damage in southern Alfalfa County was estimated at \$150,000.
Sequoyah County	02	0100CST			0	0	?	?	Tstm. Wind		
											A thunderstorm produced damage to trees and power lines in Sallisaw.
Cimarron County	02	1530CST	0.5	50	0	0	0	0	Tornado (F0)		
											A tornado touched down briefly 12 miles north-northeast of Boise City. No damage occurred.
Hughes County	05	1600CST			0	0	?	?	Tstm. Wind		
Grady County	05	1650CST			0	0	?	?	Hail (0.88), Tstm. Wind		
Hughes County	05	1700CST			0	0	?	?	Hail (1.75)		
Stephens County	05	1710CST			0	0	?	?	Tstm. Wind		
Coal County	05	1730CST			0	0	4	?	Tstm. Wind, Hail (0.75)		
Comanche County	05	1730CST			0	0	4	?	Tstm. Wind		
Stephens County	05	1800CST			0	0	?	?	Tstm. Wind		
Stephens County	05	1830CST			0	0	?	?	Tstm. Wind		
Jefferson County	05	1930CST			0	0	?	?	Hail (0.75)		
Jefferson County	05	2000CST			0	2	5	?	Tstm. Wind		
											Thunderstorms produced winds up to 80 mph and scattered hail up to the size of golfballs across southwestern and southeastern sections. The winds destroyed several outbuildings and barns, and downed many trees, power poles and lines. Two mobile homes were destroyed a few miles west of Comanche and several barns were destroyed near Marlow, with damage estimated at \$65,000. Damage of \$25,000 was done to a barn near Centrahoma. Damage of \$45,000 was done to a TV tower and a barn near Sterling. A boat marina was damaged at Maurika Lake. Fourteen travel trailers were destroyed, as were 12 to 15 boats. Damage was estimated at \$250,000. One woman had a serious leg injury and one boy had a broken arm. They were both in a camper trailer.
Washita County	06	1605CST			0	0	?	?	Hail (1.75)		
Washita County	06	1620CST			0	0	?	?	Tstm. Wind		
Comanche County	06	1620CST			0	0	?	?	Hail (1.00)		
Cotton County	06	1620CST			0	0	?	?	Hail (1.00)		
Washita County	06	1630CST			0	0	?	?	Hail (0.75)		
Beckham County	06	1635CST			0	0	?	?	Tstm. Wind		
Garvin County	06	1700CST			0	0	?	?	Hail (1.00)		
Caddo County	06	1730CST			0	0	?	?	Hail (0.75)		
Greer County	06	1745CST			0	0	?	?	Tstm. Wind		
Greer County	06	1800CST			0	0	?	?	Tstm. Wind		
											Thunderstorms produced winds up to 70 mph and hail up to golfball size across portions of the southwest. The wind downed power poles and trees and destroyed several outbuildings.
Woodward County	07	1715CST			0	0	?	?	Hail (1.00)		
											One inch size hail fell just northeast of Quinlan.
Osage County	07	2030CST			0	0	?	?	Tstm. Wind		
											Winds up to 70 mph downed trees which blocked a highway just west of Skiatook.
Washington County	08	0030CST			0	0	?	?	Hail (1.75)		
											Golfball size hail fell in southeastern Bartlesville.
OKLAHOMA											
Washington County	08	0100 - 0600CST			0	0	?	?	Flash Flooding		
											Rainfall amounts of 6 to 8 inches caused Caney Creek to flood agricultural areas and several county roads.
Lincoln County	08	1645CST			0	0	?	?	Tstm. Wind		
Blaine County	08	1740CST			0	0	?	?	Tstm. Wind		
Custer County	08	2030CST			0	0	5	?	Tstm. Wind		
											Thunderstorms produced 60 to 80 mph winds in western portions. A roof was taken off of a building in Clinton which was followed by five inches of rain. Damage to the buildings was estimated at \$50,000.
Woodward County	09	1415CST			0	0	?	?	Tstm. Wind		
Blaine County	09	1426CST			0	0	?	?	Hail (0.75)		
Major County	09	1430CST			0	0	5	?	Hail (1.75), Tstm. Wind		
Major County	09	1500CST			0	0	?	?	Hail (1.75)		
Garfield County	09	1515CST			0	0	?	?	Hail (0.75)		
Garfield County	09	1600CST			0	0	?	?	Tstm. Wind		
Logan County	09	1615CST			0	0	?	?	Hail (1.25)		
Grant County	09	1630CST			0	0	?	?	Hail (1.75)		
Garfield County	09	1630CST			0	0	?	?	Tstm. Wind		
Kay County	09	1645CST			0	0	?	?	Hail (0.75)		
Kay County	09	1702CST			0	0	?	?	Tstm. Wind		
Cleveland County	09	1830CST			0	0	?	?	Tstm. Wind		
Comanche County	09	1835CST			0	0	?	?	Hail (1.75)		
Tulsa County	09	1900CST			0	0	5	?	Tstm. Wind		
Rogers County	09	1930CST			0	0	?	?	Tstm. Wind		
Wagoner County	09	2000CST			0	0	?	?	Tstm. Wind		
											Thunderstorm produced winds of 60 to 80 mph and hail up to the size of golfballs. The winds rolled a mobile home and damaged several roofs near Collinsville, with damage around \$50,000. Damage of around \$100,000 occurred at Fairview and Ringwood in Major County. A mobile home was destroyed along with several outbuildings and barns. Considerable hail damage occurred in Ringwood.
Lincoln County	15	1750CST	2.0	50	0	0	0	0	Tornado (F0)		
											A weak tornado set down 6 1/2 miles north and one mile east of Chandler and touched down intermittently for 2 miles. No damage occurred. It was described as a small, rope-type tornado.
Cimarron County	20	1800CST			0	0	?	?	Hail (1.00)		
											A thunderstorm produced hail and very heavy rain near the Texas line south of Boise City.
Cimarron County	22	1800-2200CST			0	0	?	?	Flooding		
											Rainfall of four to six inches in a few hours caused flooding of county roads and a few buildings on a farm near Griggs.
Cimarron County	30	1700CST			0	0	4	?	Hail (2.00), Tstm. Wind		
											A thunderstorm produced hail which badly damaged fields of milo east of Boise City. Winds damaged several buildings and downed power lines. Damage is estimated at \$30,000.
35 OREGON											
OR2009-010-011-012	10-17				0	?	?	?	Lightning		
Baker, Gilliam, Grant, Harney, Lake, Malheur, Umatilla, Union and Wallowa Counties											Frequent lightning storms across the eastern half of eastern Oregon during the second week of August produced numerous forest fires. Hundreds of thousands of acres of forest and range lands were burned. Damage estimates are in excess of \$6 million dollars.
Malheur County, Harper area	22	1600PST			0	?	?	?	Flash Flood and Hail		
											Two to four inches of hail fell in and around Harper, or in northern Malheur County. This produced some flash flooding on the Malheur River near Harper.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1986

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
36 PENNSYLVANIA, Eastern									
Columbia County, Millville	01	1715EST			0	0	?	0	Hail (1.50-2.00)
Schuylkill County: Tamaqua	01	1815EST			0	0	4	0	Lightning
Tamaqua	01	1900EST			0	0	3	0	Lightning
Montgomery County, Hatfield	01	2100EST			0	0	4	0	Lightning
<p>Intense thunderstorms over the Bloomsburg-Catawissa area of Columbia County produced hail up to 2 inches in diameter and heavy rain. The heavy rain caused some minor mud slides. Gusty winds with the thunderstorms brought down some tree limbs and blew over a metal utility shed. Lightning caused a fire which damaged the roof and third floor of a hotel in the Park Crest area of Ryan Township near Tamaqua. Lightning caused a fire and some damage to a large 3-story chicken house in West Penn Township near Tamaqua. Lightning caused a house fire which resulted in the death of an 82 year old woman in Hatfield, Montgomery County.</p>									
York County, Strinestown	02	1230EST			0	0	5	0	Lightning
Lancaster County, Lancaster	02	1300EST			0	0	?	0	TSTM Wind (60 kt)
Berks County, Temple	02	1320EST			0	0	?	?	Hail (1.00)
Lehigh County: Hosensack	02	1323EST			0	0	?	?	Hail (1.00)
1 N Macungie	02	1407EST			0	0	?	?	Hail (1.75)
Berks County, 2 S Topton	02	1410EST			0	0	?	?	Hail (1.75)
Montgomery County, Stowe	02	1415EST			0	0	4	0	TSTM Wind
Northampton County, Hellertown	02	1457EST			0	0	?	?	Hail (1.75)
Cumberland County, Wertzville	02	1530EST			0	0	4	0	Lightning
Luzerne County, Beach Haven	02	1605EST			0	0	4	0	Lightning
<p>Thunderstorms caused heavy downpours over northern York County, western Lebanon and Lancaster Counties and southern Dauphin County. The downpours caused considerable drainage flooding. In York County, up to three feet of water accumulated in some parking lots and yards. The weight of water caused a portion of a supermarket roof to collapse in Weiglestown, York County. Thunderstorm wind gusts to 69 MPH were recorded at Lancaster Airport around 2 PM EDT. Wind gusts tore the tops out of trees, took the roof off a house and blew windows out in Stowe in West Pottsgrove Township, Montgomery County. Across the river in Union Township, Berks County, pieces of roof and siding were blown off a barn. Hail 1 inch in diameter fell near Temple in Berks County and near Hosensack in Lehigh County. Golfball size hail fell 1 mile north of Macungie in Lehigh County, 2 miles south of Topton in Berks County and in Hellertown, Northampton County. Lightning-caused fires destroyed barns near Strinestown, York County, and near Wertzville, Cumberland County, and destroyed a garage near Beach Haven, Luzerne County.</p>									
Lancaster County, Safe Harbor	05	1550EST			0	0	3	0	TSTM Winds
York County, Wrightstown	05	1600EST			0	0	4	0	TSTM Winds
Perry County, New Bloomfield	05	1613EST			0	0	?	?	Hail (1.75)
Lancaster County, Ronks	05	1615EST			0	0	3	?	TSTM Winds
Perry County, Duncannon	05	1646EST			0	0	3	?	TSTM Winds
Dauphin County, Harrisburg (Center City)	05	1715EST			0	0	?	?	TSTM Winds (58 mph)
Cumberland County, Enola	05	1738EST			0	0	?	?	TSTM Winds
<p>Severe thunderstorms accompanied by heavy downpours moved across Perry, Cumberland, Dauphin and Lancaster Counties. Wind gusts downed trees and power lines and blew out windows near Safe Harbor in Lancaster County. Across the Susquehanna River near Wrightville, York County, boats were capsized at a marina; this included a houseboat, several cruisers, two sailboats and a pontoon boat. New Bloomfield in Perry County had golfball size hail, winds that pulled the wall out of a building causing the roof to collapse, and a 2,000 ft. path cut by the wind ripping down 30-foot high trees. Also in Perry County, trees were blown down at Duncannon. To the east in Lancaster County, trees were blown down in Ronks. The thunderstorms produced heavy downpours and winds measured at 58 MPH as they passed over the Harrisburg area. Rainfall up to 3.5 inches caused widespread roadway and other drainage flooding. Many trees and power lines were downed with a few falling on automobiles. Heavy rain also fell in western Lancaster County with amounts up to 2.5 inches. Streets, yards and basements were flooded in Columbia, Lancaster County with paving washed off portions of a few streets. Quite a few large trees were blown down near Enola in Cumberland County.</p>									
PENNSYLVANIA, Eastern									
Juniata County, McAlisterville	06	1425EST			0	0	3	0	TSTM Winds
<p>Thunderstorm wind gusts downed trees in McAlisterville, Juniata County. Wind gusts also demolished a shed on a farm in Montour Township, Columbia County, to the west of Bloomsburg.</p>									
Perry County: Ickesburg	07	1506EST			0	0	?	?	Hail (1.00)
Newport	07	1530EST			0	0	3	0	Lightning
Newport	07	1534EST			0	0	?	?	Hail (0.75)
Dauphin County: Clarks Ferry	07	1554EST			0	0	?	?	Hail (1.75)
Hershey	07	1634EST			0	0	?	?	Hail (1.00)
Hershey	07	1655EST			0	0	?	?	Hail (2.50)
Lebanon County, Campbeltown	07	1722EST			0	0	?	?	Hail (1.75)
Dauphin County, Hershey	07	1741EST			0	0	?	?	Hail (1.75)
Lancaster County, Manheim	07	1743EST			0	0	?	?	Hail (1.75)
<p>Thunderstorms moved from Perry County southeast across portions of Dauphin, Lebanon and Lancaster Counties accompanied by heavy rain and considerable hail. In Perry County, 1 inch hail fell in Ickesburg at 4:06 PM EDT and 3/4 inch hail in Newport at 4:34 PM EDT. In Dauphin County, golfball size hail fell in Clarks Ferry at 4:54 PM EDT, 1 inch hail fell in Hershey at 5:34 PM EDT, tennis ball size hail fell in Hershey at 5:55 PM EDT, and golfball size hail fell between Hart and Hershey at 6:41 PM EDT. 1-3/4 inch hail fell in Campbeltown, Lebanon County, at 6:22 PM EDT. Golfball size hail fell at Manheim, Lancaster County at 6:43 PM EDT. A lightning-caused fire damaged a house in Newport, Perry County. The large hail in the Hershey area ruined paint on automobiles, aluminum siding and windows. Golfball size hail damaged some automobiles in Duncannon, Perry County, just before 5:00 PM EDT.</p>									
Cumberland County, Carlisle	10	1730EST			0	0	4	0	TSTM Wind
Dauphin County, Middletown	10	1800EST			0	0	4	0	TSTM Wind
York County, Wellsville	10	1910EST			0	0	4	0	TSTM Wind
Lancaster County: Lancaster	10	1937EST			0	0	?	0	TSTM Wind (83 mph)
Manheim	10	1945EST			0	0	6	0	TSTM Wind
New Holland	10	1945EST			0	0	6	0	Hail (2.50)
<p>Thunderstorms moving across Cumberland County downed many trees and power lines in an area from Carlisle across Silver Spring, Middlesex and Upper Allen Townships. Thunderstorms also downed many trees in Londonderry, Perry and Lower Swatara Townships in Dauphin County. In Hershey the wind gusts caused \$40,000 damage to one building. Thunderstorms downed trees and power lines in York County with considerable damage to an airplane, a hanger, a barn and farm machinery in Wellsville. In Lancaster County, thunderstorms downed many trees and power lines, mainly in the area from Elizabethtown to Manheim and the Lancaster Airport. Wind gusts to 83 MPH were recorded at the Lancaster Airport at 8:36 PM EDT. Near Mount Joy the winds flattened a 500 foot long chicken house holding 65,000 chickens. Over 6000 of the chickens were killed. A 90,000 bushel grain bin on the same farm was picked up and thrown into a nearby creek. Farther east in the Leola and New Holland area, hail reported as ice cube to tennis ball size caused considerable crop damage. Between 1500 and 2000 acres of crops were damaged with some completely destroyed. Tobacco, corn and soybean crops sustained the most damage.</p>									
Luzerne County, Conynham	10	1945EST	1	100	0	0	3	0	Tornado (F0)
<p>A tornado skipped through the trees in Sugarloaf Township. The tops were taken out of trees, trees were uprooted or broken off, a barn roof was damaged and a porch roof was damaged. 30 to 40 trees were downed.</p>									
Dauphin County, 5 ENE Harrisburg	16	1745EST			0	0	5	0	TSTM Wind (70 mph)
<p>Thunderstorm winds downed trees, tore roofs off, and blew out windows in Colonial Park, Dauphin County which is near Harrisburg. Wind gusts were estimated at 70 MPH.</p>									
Chester County, 4 W Chester	17	1615EST			0	0	3	0	Lightning
<p>Lightning struck a highway in Upper Chichester Township, Chester County. The lightning followed the reinforcing rods and exploded chunks of concrete into the air. At least three automobiles were damaged by flying concrete, either windshields or floorboards.</p>									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1986

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
36 PENNSYLVANIA, Western									
Indiana County	01	1330EST			0	0	4	0	Lightning
	A Johnsonburg cable TV antenna was struck by lightning.								
Butler County	01	1650EST			0	0	5	0	Thunderstorm Wind
	Trees and power lines were downed in Slippery Rock and West Sunbury. A tree fell through a house in Slippery Rock Park. A house trailer was also crushed by a tree in Slippery Rock.								
Beaver County	06	1400EST			0	0	0	0	Hail (1.00)
	Quarter size hail fell in Raccoon State Park.								
Allegheny County	06	1500-1630EST			0	0	7	0	Thunderstorm Wind, Hail (1.00)
	Power lines were downed and trees uprooted in West Mifflin, Homestead, North Side, West End, Greentree, McKees Rocks, Moon Township, Penn Hills, Wilkensburg, Castle Shannon, and Mt. Lebanon. Buildings were damaged in downtown Pittsburgh, including a 40-foot section of roof edging on the Pittsburgh Press and Post Gazette building and windows that were broken in downtown department stores. A trailer was blown over under the Ft. Duquesne Bridge. A roof was blown off a hangar at the Greater Pittsburgh Airport, as were doors and windows of two other hangars. Several car windows and four skylights were also blown out at the airport. At 1505EST, one inch diameter hail was reported at the Air National Guard near the airport, and at 1555EST, Bridgeville reported 3/4 inch hail. Telephone poles were downed in Harmarville at 1630EST.								
Westmoreland County	06	1654-1710EST			0	0	0	0	Thunderstorm Wind, Hail (1.75)
	Trees were downed in Trafford at 1654EST. Golfball size hail occurred at Murrys ville at 1710EST.								
Fayette County	06	1800EST			0	0	3	0	Lightning
	A commercial building in Connellsville was hit by lightning, knocking several bricks loose and damaging two circuit breakers.								
Mercer County	06	2230EST			0	0	4	0	Lightning
	A house in Brookfield was struck by lightning, setting the attic and roof ablaze.								
Westmoreland County	07	1450EST			0	0	0	0	Thunderstorm Winds
	Trees were downed in Penn Township, 10 miles northeast of Greensburg.								
Armstrong County	07	1455EST			0	0	0	0	Thunderstorm Winds
	Trees and power lines were downed in Kittanning.								
Jefferson County	07	1515-1615EST			0	0	3	0	Thunderstorm Winds
	The front porch of a trailer was ripped away and trees and power lines were downed in Punxsutawney.								
Clearfield County	07	1620EST			0	0	0	0	Thunderstorm Wind
	Trees were downed in Curwensville in the western part of the county.								
Butler County	10	1530EST			0	0	3	0	Lightning
	Lightning struck a trailer in Harrisville.								
Clearfield County	10	1600EST			0	0	5	0	Lightning
	A barn in Cambria was struck by lightning and set ablaze.								
Butler County	15	1420EST			0	0	0	0	Thunderstorm Winds
	Trees and power lines were downed in Center and Oakland Townships (4 miles north of Butler).								
Erie County	15	1800-2045EST			0	1	5	0	Thunderstorm Wind, Lightning
	Trees were downed in Meadville, one falling into a house and injuring an occupant. Trees and power lines were also downed in Vernon and Cambridge. A home was struck by lightning in Waterford Township at 1930EST. At 2019EST, a Corry commercial building power line was struck, destroying phone lines and a fire alarm system.								
Venango County	15	2145EST			0	0	3	0	Thunderstorm Wind
	Trees were downed and an awning was ripped from a house in Victory Heights.								
Butler County	15	2330-2345EST			0	0	0	0	Thunderstorm Wind
	Trees were downed in Center Township, and also in Portersville at 2345EST. Power lines were downed in Lancaster Township (10 miles west of Butler).								
— PENNSYLVANIA, Western									
McKean County	23	1430EST			0	0	0	0	Thunderstorm Wind
	Trees were downed in Otto Township.								
Butler County	23	1505EST			0	0	0	0	Thunderstorm Wind
	Wind gusts of 58 knots occurred in Cranberry Township (14 miles southwest of Butler).								
Allegheny County	23	1505-1530EST			0	0	0	0	Thunderstorm Wind
	Trees were downed in Marshall Township (16 miles northwest of Allison Park), and also in Climerville. A wind gust up to 52 knots occurred at the Greater Pittsburgh Airport at 1505EST.								
Armstrong County	23	1540EST			0	0	3	0	Lightning
	A school was struck by lightning in the southern part of the county.								
McKean County	23	1700EST			0	0	0	0	Thunderstorm Wind
	Trees and power lines were downed in Eldred and Bradford.								
Westmoreland County	23	1803EST			0	0	4	0	Lightning
	A Murrys ville barn was struck by lightning.								
37 RHODE ISLAND									
Providence County, Cumberland	07	1530EST-1540EST	0.5	100	0	0	5	0	Tornado (F1)
	A tornado touched down in the Cumberland Hill section of Cumberland in northeastern Rhode Island. The tornado moved in a north-west to southeast direction, shearing off several trees at about the thirty foot level before touching down. Some homes experienced structural damage and an unfinished condo project suffered extensive loss of plywood. Most of the damage was to trees and power lines. The occurrence of this tornado was confirmed by National Weather Service investigation.								
Providence County, Cranston and South Providence city	07	1615EST-1625EST	4.0	200-400	0	20	6	0	Tornado (F2)
	The second tornado to occur within an hour in the county touched down in a portion of Cranston and moved in an east-northeasterly direction. The tornado skipped over a section of town near the intersection of Cranston and Brigham streets before touching down again on Broad Street in South Providence. A van was tipped over in Cranston and a house moved off its foundation. This tornado caused considerable damage to structures including homes in Cranston and buildings in South Providence. A very rare event in Rhode Island, the twister resulted in millions of dollars of property damage, twenty injuries, and very fortunately, no deaths. The injuries were caused mostly by flying debris. In South Providence a building completely lost its fourth floor. Parts of that area resembled a "war zone" after the storm. Plate glass windows were blown out of many buildings including a fast food restaurant. This tornado was easily confirmed by eyewitness accounts and by live media coverage. Up to 6,000 electric customers lost power.								
Providence County	07	Late afternoon			0	0	4	0	Lightning, Heavy Rain, Flooding
	Heavy thunderstorms accompanying the tornadoes brought a number of lightning strikes along with torrential rains which flooded many streets, and in Pawtucket, caused part of a street to collapse. Heavy street flooding was reported from Lincoln and Central Falls. Two to four inches of rainfall were received in the area of flooding.								
Providence County, Burrillville and North Smithfield	08	1015EST-1025EST	6.0	200-400	0	0	5	0	Tornado (F1)
	The third tornado to strike the state and the county in two days touched down in Burrillville near the Wilson Reservoir. The tornado moved along an intermittent path toward the east-northeast and then turned northeast as it entered North Smithfield. Then, it crossed the northwest corner of North Smithfield into Millville, MA. The intermittent touchdowns of this storm were influenced by the rolling terrain. Many large trees were lifted out of the ground along its path and houses damaged along about one and a half miles of the track. Eight cars, a trailer, and several buildings suffered damage in Slatersville (North Smithfield). This tornado was confirmed by National Weather Service investigation.								
Providence County, Harmony	08	Late morning			0	1	0	0	Lightning
	A man was injured by a bolt of lightning while carrying a metal crate on a farm. He was thrown about five feet. He was treated and released at a local hospital.								

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1986

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

RHODE ISLAND

Providence County, Slatersville	08	Late morning	0	0	0	4	Large Hail (0.75)	Large Hail (0.75)	
Large hail which occurred with the passage of a severe thunderstorm and tornado heavily damaged an apple crop at a local orchard.									
Statewide	24	All day	0	1	4	0	High Winds	High Winds	
Strong and gusty winds reaching over 40 MPH at times toppled trees and broke branches, resulting in scattered power outages. In Providence, a boy was injured by an airborne piece of plywood. An auto was crushed by a falling tree.									

38 SOUTH CAROLINA

Berkeley County, Bonneau	1	1725EST	0	0	0	4	Hail (0.75)	Hail (0.75)	
Hail occurred near Bonneau.									
Berkeley County, Ladson, near Bonneau	1	1930EST	1	3	4	0	Thunderstorm winds, Hail (1.0)	Thunderstorm winds, Hail (1.0)	
Thunderstorm winds blew a tree on a mobile home in Ladson. A woman and dog were killed, 3 people injured. (F.33M) Hail fell near Carnes Crossroads.									
Dorchester County, Ridgeway	1	2000EST	0	0	4	0	Lightning	Lightning	
A lightning-caused fire burned a woman to death in Ridgeway just off I-26 north of Charleston (F 86M).									
Charleston County, Charleston Airport	1	2002EST	0	0	3	0	Thunderstorm winds,	Thunderstorm winds,	
A plane was damaged after its moorings failed during strong winds.									
Lexington County, West Columbia	2	1421EST	0	0	4	0	Lightning	Lightning	
A direct hit on a radio tower (WCOQ-FM) by lightning knocked the station out for 37 hours.									
Spartanburg County, Spartanburg to Pacolet	2	1645EST	0	0	3	0	Thunderstorm winds, Hail (2.50)	Thunderstorm winds, Hail (2.50)	
Wind, and hail, blew down numerous trees and six power lines and caused other damage from north, Spartanburg to Pacolet.									
York County, Rockhill, Fort Mill and York	3	0018EST	0	0	4	0	Thunderstorm winds	Thunderstorm winds	
Thunderstorm winds caused considerable damage to trees and utilities in Rock Hill, Fort Mill, and York.									
Chesterfield County, 4 miles West of Cheraw	3	1430EST	0	0	4	0	Thunderstorm winds	Thunderstorm winds	
Thunderstorm winds ripped a roof off a hanger and damaged a mobile home at Cheraw Airport four miles west of Cheraw.									
Darlington County, Lamar	3	1715EST	0	0	2	0	Thunderstorm winds	Thunderstorm winds	
Wind blew a tree on mobile home, causing considerable damage.									
Spartanburg County, Little Chicago	3	1800EST	0	0	4	0	Lightning	Lightning	
Lightning burned a residence at Little Chicago in northern Spartanburg County.									
Sumter County, Sumter	4	P.M.	0	0	4	0	Lightning	Lightning	
Lightning struck a home in Sumter, setting it afire.									
Charleston County, Kiawah Island	4	2100EST	0	0	2	0	Lightning	Lightning	
Lightning knocked a hole in the roof of a home on Kiawah Island.									
Spartanburg County, Northern part of County	6	1500EST	0	0	3	0	Thunderstorm winds, Rain, Lightning	Thunderstorm winds, Rain, Lightning	
In northern Spartanburg County, heavy rains and winds caused widespread minor damage. Power was disrupted to more than 1,000 customers.									
Chester County, Chester	6	1615EST	0	0	4	0	Lightning	Lightning	
Lightning set a home afire in Chester.									
Lee County, 4 Miles SSE Bishopville	6	1645 EST	0	0	4	0	Thunderstorm winds	Thunderstorm winds	
Wind blew down several large oak trees, tore the roof off a house, and damaged farm equipment.									
Aiken County	6	1730EST	0	0	2	0	Thunderstorm winds, Lightning	Thunderstorm winds, Lightning	
Thunderstorm wind caused numerous power and phone outages in Aiken, South Carolina. One home was heavily damaged by fire following a lightning strike.									
Spartanburg County, Boiling Springs	7	1800EST	0	0	4	0	Thunderstorm winds	Thunderstorm winds	
Thunderstorm winds destroyed a mobile home on Gore Road near Boiling Springs.									
Spartanburg County, Landrum	8	1710 EST	0	1	5	0	Thunderstorm winds, Hail (1.2)	Thunderstorm winds, Hail (1.2)	
At Landrum, thunderstorm winds blew down several trees and a power line, heavily damaged one home, and caused minor damage to several others. One person was slightly injured. Several mobile homes were damaged in Boiling Springs.									
Greenwood County, Greenwood	11	1525EST	0	0	4	0	Thunderstorm winds	Thunderstorm winds	
Thunderstorm winds broke limbs, disrupting power in Greenwood. Several trees fell on homes.									
York County, Rock Hill	11	1600EST	0	0	4	0	Lightning	Lightning	
Lightning set a 57 year old classroom on the Winthrop Campus afire.									
Kichland County, Columbia	12	0700EST	0	0	5	0	Flash Flooding	Flash Flooding	
Water from Gills Creek following more than 4 inches of rain flooded the Sandhill Academy on 4335 Timberland Drive.									
Charleston County, Charleston	14	0930EST	0	0	3	0	Flooding	Flooding	
4-5" rains caused street flooding and numerous traffic accidents, disrupting traffic especially at Silas Pearson bridge. Up to 5 miles of stalled traffic collected on the Interstate Highway.									

SOUTH CAROLINA

SCZ007-008 S.C. Coast	15	1600EST	0	0	2	0	Tropical Storm	Tropical Storm	
Tropical Storm Charley formed in a depression off the South Carolina Coast. Charley stayed 140 miles offshore for 2 days before drifting north-northeast. Street flooding occurred in Charleston at high tide. The Northeast coastal area received beneficial rains. No damage was reported.									
Spartanburg County, Upper part of County	17	1600EST	0	0	4	0	Flash Flooding	Flash Flooding	
Eight inches of rain within 24 hours flooded streets with water up to 2 ft. deep on SC 14. There was considerable damage to roads near Landrum.									
Newberry County, Newberry	18	0300EST	2	1	6	4	Flash Flooding	Flash Flooding	
Flash flooding caused by more than 10 inches of rain within six hours caused record flooding along Scotts Creek in Newberry. About 40 homes were flooded with water up to 10 feet deep in some homes. Major streets were barricaded with flood waters waist deep on some streets. Flooding began at 3 a.m. and continued during the morning. A car containing an adult and one child stalled on a bridge. The three occupants abandoned the car and were swept away. Two drowned, one was rescued. (F45V, F2V)									
Sumter County, North Sumter	18	1430EST	0	0	2	0	Thunderstorm winds	Thunderstorm winds	
Thunderstorm winds downed trees and power lines in North Sumter.									
Lexington County, Lexington and West Columbia	18-19		1	0	5	2	Flash Flooding	Flash Flooding	
Heavy rain washed out bridges and also caused extensive urban flooding. A deputy sheriff drove his car into a flooded area near Lexington and was drowned.									
Richland County, Columbia	18-19	0500EST	0	0	4	0	Flash Flooding	Flash Flooding	
Heavy rains began on the 18th and continued through early morning of the 19th. Widespread flash flooding occurred in the Columbia area. Several homes on Arcadia Lake were flooded.									
Florence County, Florence	19	1600EST	0	0	2	0	Urban Flooding	Urban Flooding	
Heavy rain of 2 to 3 inches flooded city streets, disrupting traffic in Florence.									
York County, Western York County	19	2023EST	0	0	6	2	Flash Flooding	Flash Flooding	
Streets in Wooded Valley were flooded with 6 to 8 ft. water. 25-30 residents were evacuated. About 30 homes were flooded with water up to 4 ft. deep in some homes. At least 25 bridges and culverts were washed out in western York County.									
Union County, Lockhart	19-20	2050EST	1	0	6	3	Flash Flooding	Flash Flooding	
Heavy rain at Lockhart caused heavy flash flooding. One person was drowned when his car went out of control and wrecked in a 15 ft. water-filled gully. Thirty-five homes, 2 businesses, 3 churches, a post office, and many streets flooded. 75 people evacuated. (M25 V)									
Chester County, Western Part	19-20	2130EST	0	0	4	0	Flash Flooding	Flash Flooding	
Heavy rains washed out bridges, stranding several families.									
Chester County, Chester	22	1800EST	0	0	5	0	Flooding	Flooding	
Heavy rains caused considerable flooding in and near Chester.									
Horry County, North Myrtle Beach	22	1945EST	0	0	5	0	Flooding	Flooding	
Heavy rains caused flooding up to 10 inches deep in several businesses and parking lots in the Watson Shopping Center of North Myrtle Beach.									
Berkeley County, Caroni area	25	0130EST	0	0	3	0	Lightning	Lightning	
Lightning set a home afire in the College Park subdivision of the Caroni area of Berkeley County.									
Charleston County, Charleston	25	0300EST	0	0	3	4	Lightning	Lightning	
Lightning caused extensive damage to four apartments at 102 Royal Palm Building in Charleston.									
SCZ001-002-003-004-005-006-007-008	-31		0	0	?	?	Drought	Drought	
Heavier than normal rainfall provided substantial relief from the drought. Subsoils still need additional moisture. Also, most streams and reservoirs are still below normal elevations.									

39 SOUTH DAKOTA

Fall River County	01	0444 CST	0	0	0	0	Funnel Cloud	Funnel Cloud	
A funnel cloud was sighted just northwest of Edgemont.									
Hutchinson County	01	1625 CST	0	0	0	3	Hail (1.00)	Hail (1.00)	
One inch diameter hail fell ten miles west of Freeman.									
Deuel County	01	1635-1650 CST	0	0	0	4	Hail	Hail	
Hail of unknown size fell southwest of Toronto in a path four miles long and three miles wide. The hail completely destroyed crops within that area.									
Fall River County	03	1515 CST	0	0	0	0	Hail (0.75)	Hail (0.75)	
Three-quarter inch diameter hail fell in Hot Springs.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1986

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					KILLED	INJURED	PROPERTY	CROPS	
— SOUTH DAKOTA									
Tripp County	03	1825 CST			0	0	3	4	Hail (1.50)
	03	1845-1900 CST			0	0	3	4	Hail (1.00)
	03	1815 CST			0	0	4	0	Thunderstorm Winds
	03	1825-1930 CST			0	0	0	0	Heavy Rain
	<p>Hail, ranging in size up to one and one-half inches in diameter covered the ground to a depth of thirteen inches in the Witten area. Crops in several fields were destroyed and many houses had broken windows in Witten. One inch diameter hail fell near Clearfield and damaged car windshields northwest of town. Thunderstorm winds blew over a grain elevator in Witten. 1.5 inches of rain fell in a half hour in Witten, and .80 of an inch of rain fell in ten minutes in Clearfield.</p>								
Meade County	04	1600 CST			0	0	0	0	Hail (0.75)
	04	1600 CST			0	0	3	0	Thunderstorm Winds
	04	1605 CST			0	0	3	0	Thunderstorm Winds
	<p>Three-quarter inch diameter hail fell ten miles southwest of Maurine. Thunderstorm winds broke six power poles four miles southwest of Maurine, and three power poles near Opal.</p>								
Haakon County	04	1645 CST			0	0	0	0	Hail (0.75)
	<p>Three-quarter inch diameter hail fell ten miles north of Phillip.</p>								
Butte County	04	1657 CST			0	0	0	0	Funnel Cloud
	<p>A funnel cloud was sighted six miles southwest of Nisland.</p>								
Bon Homme County	06	1530 CST			0	0	2	0	Lightning
	<p>Lightning knocked out power for a short time over a part of Springfield. A radio antenna was destroyed and telephone equipment in town was damaged by the lightning.</p>								
Walworth County	06	1610-1614 CST	1.5	40	0	0	2	0	Tornado (F1)
	06	1600-1630 CST			0	0	2	5	Thunderstorm Winds
	<p>A tornado was on the ground for a short time from 3.5 miles northeast of Akaska to two miles northeast of Akaska. The tornado knocked down some power lines. Strong thunderstorm winds caused crop damage to about half of the farms in the county.</p>								
Campbell County	06	1600 CST			0	0	3	0	Lightning
	<p>Lightning started a hay fire near Mound City, destroying twenty tons of hay.</p>								
Potter County	06	1600 CST			0	0	3	4	Hail (1.75)
	06	1625 CST			0	0	3	4	Hail (1.75)
	06	1600-1700 CST			0	0	3	0	Thunderstorm Winds
	06	1700-1715 CST			0	0	0	0	Heavy Rain
	<p>One and three-quarter inch diameter hail fell in the northwest corner of the county at 1600 CST and twenty miles northwest of Bettysburg at 1625 CST. The hail damaged buildings, vehicles and many crops. Thunderstorm winds blew down five power poles, leaving the city of Hoven without power for ten hours. One inch of rain fell in fifteen minutes west of Hoven.</p>								
Stanley County	06	1638 CST			0	0	0	0	Hail (1.75)
	<p>One and three-quarter inch diameter hail fell in Ft. Pierre.</p>								
Hughes County	06	1640-1646 CST			0	0	0	0	Hail (3.50)
	06	1708 CST			0	0	0	0	Hail (1.75)
	<p>Hail, ranging in size from two to three and one-half inches in diameter fell in Pierre between 1640 and 1646 CST. One and three-quarter inch diameter hail fell in Pierre at 1708 CST.</p>								
— SOUTH DAKOTA									
Lyman County	06	1730 CST			0	0	3	0	Thunderstorm Winds
	06	1800 CST			0	0	0	0	Funnel Cloud
	06	1830-1930 CST			0	0	3	0	Hail (4.50)
	<p>Thunderstorm winds destroyed calf shelters and feeders near Kennebec. Small buildings were also blown over. A funnel cloud was sighted north of Kennebec. Hail, ranging in size up to four and one-half inches in diameter fell twenty miles south of Kennebec at 1830 CST and moved to the extreme southern part of the county at 1930 CST. The hail broke windows and windshields and damaged vehicles.</p>								
Mellette County	06	1930-2000 CST			0	0	0	3	Hail (1.75)
	<p>One and three-quarter inch diameter hail fell near White River and caused some crop damage.</p>								
Gregory County	06	1942 CST			0	0	0	0	Funnel Cloud
	06	2020 CST			0	0	3	4	Hail
	<p>A funnel cloud was sighted five miles north of Dixon. Hail of unknown size damaged crops in the southwest part of county and some fields were totally destroyed. The hail also broke several windows in the area.</p>								
Beadle County	06	1950 CST			0	0	4	0	Lightning
	<p>Lightning struck and set fire to a vacant house ten miles northwest of Huron. The lightning-started fire destroyed the house.</p>								
Tripp County	06	1950-2008 CST			0	0	6	4	Thunderstorm Winds
	06	1950 CST			0	0	0	0	Hail (1.00)
	06	2000-2015 CST			0	0	0	4	Hail
	06	2010 CST			0	0	4	4	Thunderstorm Winds
	06	2015 CST			0	0	0	0	Funnel Cloud
	<p>Thunderstorm winds gusted to 90 MPH in the Winner area, damaging 200 houses. Twelve of the houses received major damage. The Tripp County Historical Museum was destroyed as was a large shop just northeast of Winner. Several power poles were blown over and power was out in the area for five hours. Many trees were uprooted and a plane was flipped over at the airport. One inch diameter hail fell in Witten and hail of unknown size caused crop damage in the southeastern part of the county. One mile south of Colome, thunderstorm winds uprooted trees and destroyed a five thousand bushel drying bin and a chicken house. A funnel cloud was sighted one and one-half miles south of Colome.</p>								
Todd and Tripp Counties	09	1253-1400 CST			0	0	0	0	Funnel Clouds
	<p>A funnel cloud was reported five miles south of Mission at 1253 CST. At 1305 CST, funnel clouds were observed over the northwest and southwest parts of Tripp County. Between 1300 and 1400 CST, numerous funnel clouds were sighted in western Tripp County.</p>								
Todd County	09	1303 CST	.5	30	0	0	2	0	Tornado (F0)
	<p>A tornado touched down two miles southeast of Mission. The tornado turned over some water tanks.</p>								
Spink County	09	1326 CST			0	0	0	0	Funnel Cloud
	<p>A funnel cloud was reported near Frankfort.</p>								
Minnehaha County	09	1657 CST	.3	30	0	0	0	0	Tornado (F0)
	09	1659 CST	.2	30	0	0	0	0	Tornado (F0)
	09	1710-1714 CST			0	0	0	0	Funnel Clouds
	<p>Two tornadoes touched down briefly with no damage reported. One tornado was two miles south and one mile west of Colton and the other was one mile west of Lyons. Funnel clouds were sighted two to three miles north of Colton and one-half mile south of Lyons.</p>								
Todd County	12	ERY MRNG			0	0	2	0	Lightning
	<p>Lightning set a stack of hay on fire near Hidden Timber.</p>								
Mc Cook County	12	0700 CST			0	0	2	0	Lightning
	<p>Lightning split a tree and ruined a television four and one-half miles west of Salem.</p>								

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1986

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					KILLED	INJURED	PROPERTY	CROPS	
SOUTH DAKOTA									
Pennington County	12	1549-1609 CST		0 0	0 0	0 0			Heavy Rain
									Thunderstorms produced 2.53 inches of rain in twenty minutes in downtown Rapid City. The heavy rain caused street and basement flooding.
Perkins County	12	1705 CST		0 0	0 0	0 0			Hail (1.75)
									Hail, up to one and three-quarter inch in diameter covered the ground in Zeona.
Stanley County	12	1950 CST		0 0	0 0	0 0			Funnel Cloud
	12	2115 CST		0 0	0 0	0 0			Hail (1.75)
									A funnel cloud was sighted near Hayes. One and three-quarter inch diameter hail fell eight miles northeast of Onida.
Spink County	13	0130 CST		0 0	0 0	5 0			Lightning
									Lightning set a grain elevator on fire in Conde, destroying it. The thirty thousand bushel elevator was one-third full when the fire started.
Deuel County	14	0300 CST		0 0	0 0	4 0			Lightning
									Lightning started a fire which destroyed a building near Clear Lake. The building held five thousand bales of hay. At a nearby farm, lightning killed six dairy cows.
Hughes County	16	1840-1845 CST		0 0	0 0	0 0			Hail (2.75)
									Hail, ranging in size from two and one-half inches to two and three-quarter inches fell in Blunt.
Spink County	16	1850 CST		0 0	0 0	0 4			Hail
									Hail of unknown size caused extensive crop damage in the southwestern part of the county in the Tulare and Cottonwood Lake areas.
Beadle County	16	1855-1915 CST		0 0	0 0	4 0			Thunderstorm Winds
									Thunderstorm winds gusted to 60 MPH in Huron. The winds destroyed a storage shed northwest of Huron and downed sixteen power poles across the central part of the county. Four miles northwest of Huron, the winds uprooted trees, tipped over a trailer, and downed power lines.
Sanborn County	16	1925 CST		0 0	0 0	0 0			Thunderstorm Winds
	16	1900-1930 CST		0 0	0 0	0 0			Heavy Rain
									Thunderstorm winds gusted to 60 MPH in Forestburg. Up to five inches of rain fell from Woonsocket north to the county line. In that area, some lowland flooding occurred.
Brule County	16	2003 CST		0 0	0 0	0 0			Funnel Cloud
									A funnel cloud was reported in the extreme northeast part of the county.
Hanson County	16	2000-2030 CST		0 0	0 0	6 7			Thunderstorm Winds, Heavy Rain
									Thunderstorm winds gusting to 100 MPH uprooted trees and damaged buildings in the north part of the county. In Fulton, two steel bins were destroyed and the town was without power for ten hours. On several farms, barns, garages, silos and small buildings were destroyed. The worst affected area was south of Epiphany where large steel sheds were damaged and a roof was blown in. Four miles north of Farmer, a barn was destroyed. Thirteen power poles were downed west of Farmer. The wind caused considerable crop damage in the northwest part of the county. North of Farmer, three barns were destroyed and there was extensive silo damage. Two garages were destroyed three miles northwest of Spencer. Two to three inches of rain fell during this time around Epiphany.
Miner County	16	2015 CST		0 0	0 0	3 0			Thunderstorm Winds
									Thunderstorm winds caused considerable tree damage in the southwestern half of the county. The winds knocked out power for several hours in Howard and for four hours in Canova.
SOUTH DAKOTA									
Davidson County	16	2045-2050 CST		0 0	0 0	0 0			Thunderstorm Winds
									Thunderstorm winds gusted to 60 MPH in Mt Vernon.
Mc Cook County	16	2005-2050 CST		0 0	0 0	6 7			Thunderstorm Winds, Heavy Rain
									Thunderstorm winds destroyed two buildings one mile west of Spencer. The west part of the county was the worst affected with considerable tree damage. In Spencer, a house lost a roof and other buildings were damaged. Southwest of Spencer, a silo was destroyed. A corn shed and a dryer bin were destroyed one mile east of Canistota and power lines were downed in the north part of town. 70 MPH winds were recorded in Salem between 2045 and 2050 CST. Spencer reported four inches of rain in a short time.
Hutchinson County	16	2115 CST		0 0	0 0	4 7			Thunderstorm Winds
									Thunderstorm winds destroyed a garage west of Freeman. Considerable tree damage was reported and a camper was flipped over and destroyed.
Turner County	16	2108 CST		0 0	0 0	0 0			Funnel Clouds
	16	2135 CST		0 0	0 0	0 0			Funnel Cloud
	16	2146 CST		0 0	0 0	0 0			Thunderstorm Winds
									Funnel clouds were reported to the north and south of Parker at 2108 CST and over Hurley at 2135 CST. Thunderstorm winds gusted to 75 MPH in Viborg.
Minnehaha County	16	2114 CST		0 0	0 0	0 0			Lightning
	16	2355 CST		0 0	0 0	3 0			Thunderstorm Winds
									Lightning knocked out power for a time in Humboldt. Thunderstorm winds blew over a chimney and an antenna near Wall Lake.
Union County	16	2227 CST		0 0	0 0	2 0			Thunderstorm Winds
									Thunderstorm winds knocked a large tree onto power lines, downing them in Spink and causing a short power outage.
Spink County	17	0145 CST		0 0	0 0	3 0			Lightning
									Lightning started a fire in a church in Redfield.
Hanson County	17	ERY MRNS		0 0	0 0	4 0			Lightning
									A lightning-started fire destroyed a house in Emery.
Moody County	17	ERY MRNS		0 0	0 0	2 0			Thunderstorm Winds
									Thunderstorm winds downed branches onto a power line in Flandreau, causing a power outage over a small area.
Minnehaha County	18	1645-1710 CST		0 0	0 0	0 0			Heavy Rain
	18	1925 CST		0 0	0 0	2 0			Lightning
									Thunderstorms produced heavy rains which produced street flooding in the southern part of Sioux Falls. Lightning started two small fires in houses in the southern part of Sioux Falls.
Brown and Spink Counties	19	0440 CST		0 0	0 0	0 4			Hail (1.00)
	19	0451 CST		0 0	0 0	3 7			Hail (1.75)
	19	0510 CST		0 0	0 0	5 0			Hail (1.75)
	19	0529 CST		0 0	0 0	3 0			Thunderstorm Winds
	19	0551 CST		0 0	0 0	0 7			Hail (2.75)
									Hail, one inch in diameter fell three miles southwest of Frederick and caused major crop damage. One and three-quarter inch diameter hail fell in Westport and in Aberdeen. This hail damaged buildings and vehicles and broke windows. Two and three-quarter inch diameter hail fell one and one-half miles south of the Brown and Spink County line and covered the ground. Thunderstorm winds caused damage around Aberdeen.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1986

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	
— SOUTH DAKOTA											
Harding County	19	1600 CST	0	2	5	0					Lightning
		Two men were injured by lightning while riding in a vehicle near Buffalo. Near Buffalo, a fire was started by lightning and burned a one and one-half square mile area. Another fire was started by lightning north of Buffalo and burned an area one mile long and one-quarter of a mile wide.									
Corson and Dewey Counties	19	1830-2000 CST	0	0	4	0					Lightning
		Lightning started several prairie fires in central Corson County. A prairie fire was started five miles west of Mc Intosh and burned 60 acres. Lightning also struck a radio tower near Firesteel, knocking it out of service.									
Campbell County	19	1920-1945 CST	0	0	5	0					Thunderstorm Winds
		Thunderstorm winds gusted to 78 MPH in Pollock. A mobile home on the southwest edge of town was damaged and a mobile home west of Pollock was destroyed. Trees and windows were blown down in town. Several power lines were downed and Pollock was without power for six hours.									
Walworth County	19	1945-1950 CST	0	0	0	0					Thunderstorm Winds
		Thunderstorm winds gusted to 65 MPH in Mobridge.									
Brown County	19	2145-2200 CST	0	0	0	0					Thunderstorm Winds
		Thunderstorm winds gusted to 65 MPH on the west edge of Elm Lake and to 60 MPH in Frederick.									
Roberts County	20	EVE	0	1	4	0					Lightning
		Lightning killed three cows and three calves on a farm one and one-half miles north of Roshoit. A man was injured while talking on the phone when the lightning struck.									
Butte County	25	AFTN	0	0	3	0					Lightning
		Lightning damaged windows and appliances in Newell.									
Haakon County	28	1110 CST	0	0	4	0					Lightning
		Lightning started a fire twelve miles northwest of Philip that burned 80 acres of grassland.									
Potter County	31	ERY MRNG	0	0	2	0					Lightning
		Near Gettysburg, seven haystacks were struck by lightning and burned.									
Haakon County	31	0710 CST	0	0	4	0					Lightning
		Lightning set a trailer house on fire, severely damaging it.									
Tripp County	31	2120 CST	0	0	0	0					Hail (1.75)
		One and three-quarter inch diameter hail fell in Witten.									
40 TENNESSEE											
Memphis, Shelby County	01	0020CST	1	0	0	0					Heat
		A heat wave gripped the southeastern U.S. including Tennessee in latter July and the first of August. Afternoon temperatures exceeded 100 degrees during the last 3 days of July; Memphis reached 104 degrees on July 31, and the heat stress index was near 120 degrees. In Memphis, a 30 year old male died of hyperthermia during the early morning hours of August 1st.									
Primm Springs, Hickman County	02	Morning	1	0	0	0					Heat
		A 68 year old female died of hyperthermia.									
Greene County	06	1200EST	0	0	4	0					Lightning
		Lightning struck a barn on Snapp Ferry Road near Afton, causing a fire which burned the barn to the ground. Also destroyed were 3,000 to 4,000 bales of hay and 3,000 tobacco sticks.									
Blount County	07	1300EST	0	0	3	0					Lightning
		Lightning killed 2 cows on a farm on McConnell Road off of 411 Highway.									
— TENNESSEE											
Carter County	07	1345EST	0	0	4	0					Lightning
		Lightning struck a house on Heaton Hill Road and started a fire which destroyed the dwelling and contents.									
Oliver Springs, Anderson County	07	1400EST	1	0	0	0					Lightning
		A 59 year old male was struck and killed by lightning while he was selling produce at a flea market. He had been standing in an open produce stand with a tin roof and concrete floor, which was wet from the rain. H590									
Madison County	07	1430CST	0	0	3	0					Lightning
	07	1430CST	0	0	2	0					Thunderstorm Wind
		Lightning struck and killed several cows just east of Jackson. Thunderstorm winds felled trees in Jackson, and a car was damaged.									
Lincoln County	07	1430CST	0	0	4	0					Thunderstorm Wind
		Violent thunderstorm winds blew down a house that was under construction in the Howell area, causing about \$25,000 in damage. Several trees were blown down as well.									
Memphis, Shelby County	07	1513CST	0	0	4	0					Lightning
	07	1520CST	0	0	4	0					Thunderstorm Wind
		Lightning struck the Sears Tower on North Watkins Street, and blew a four foot hole in the top of the building. Bricks were showered on three cars below, damaging them. Strong winds from the thunderstorm blew a tree onto a house in the Midtown area near the Fairgrounds, crushing the roof and caving in a wall. Several trees were uprooted in the eastern section of the county, and power was interrupted in many areas of Memphis.									
Carroll County	07	Afternoon	0	0	4	0					Lightning
	07	Afternoon	0	0	3	0					Thunderstorm Wind
		Lightning struck a barn near Atwood and the ensuing fire destroyed the barn and more than 3,000 bales of alfalfa hay stored inside. Strong thunderstorm winds toppled several trees throughout the county; one tree fell onto a garage, damaging it and a truck inside.									
Hamilton County	07	1700EST	0	1	2	0					Thunderstorm Wind (S2)
		Strong thunderstorm winds near 60 miles an hour felled trees in the Signal Mountain area. A tree limb blew onto a moving pickup truck, and smashed the windshield, slightly injuring a man. Other trees and power lines were downed in Chattanooga, Riverview, and elsewhere in the county.									
Knoxville, Knox County	07	1730EST	0	1	3	0					Thunderstorm Wind
		Strong thunderstorm winds knocked down two 66,000 volt power lines that supplied electricity to Knoxville's main sewage treatment plant, disabling the plant and causing millions of gallons of raw sewage to be dumped into Fort Loudon Lake. Other power lines were downed in other areas, including the University of Tennessee, Fort Sanders, and Powell. A 27 year old male was out severely when strong thunderstorm winds blew him into a plate-glass window in front of a furniture store.									
Byrdstown, Pickett County	08	1400CST	0	0	3	0					Thunderstorm Wind
		Thunderstorm winds downed a tree onto a house in Byrdstown, causing damage to the roof and one side of the house.									
Rutherford County	10	1630CST	0	0	5	0					Lightning
	10	1630CST	0	0	4	0					Thunderstorm Wind
		Lightning struck a house near Almadale and caused a fire which resulted in \$50,000 in damage. High winds from the thunderstorms tore the roof from a shed at a bread store in Murfreesboro, and two cars were damaged by the wind-driven debris. Two other businesses sustained wind damage, and two walls of a building under construction were blown down. Several trees were downed by the strong winds, primarily in Murfreesboro and near Smyrna.									
Rutherford County	26	1355CST	0	0	4	0					Lightning
		Lightning started a fire at a house on Richland Place, and the house was extensively burned. Another lightning strike flattened an outbuilding.									
Blount County	27	0030EST	0	0	4	0					Lightning
		An automotive garage on Pea Ridge Road was struck by lightning and burned. The building and three cars inside it were destroyed.									
English Mountain, Sevier County	27	0115EST	0	0	3	0					Thunderstorm Wind
		The second floor of a partially completed building collapsed due to strong thunderstorm winds.									
Shelby County	27	1700CST	0	0	3	0					Thunderstorm Wind (S2)
		Violent thunderstorm winds near 60 miles an hour toppled trees and collapsed temporary structures and concession stands on the golf course at Colonial Country Club in Countrywood, where a major golf tournament was in progress. Other trees were uprooted in the north part of Collierville.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1986

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					KILLED	INJURED	PROPERTY	CROPS	

— TENNESSEE

Fayette County	27	1720CST			0	0	4	0	Thunderstorm Wind
Trees were downed in Somerville and Moscow; a house had some of its windows blown out in Somerville, and major damage occurred to a house in Moscow as a tree fell on it. Power outages were widespread throughout the county.									
Grand Junction, Hardeman County	27	1740CST			0	0	3	0	Thunderstorm Wind
Several houses in Grand Junction sustained roof damage, and several trees and power lines were downed by powerful thunderstorm winds.									
Jonesborough, Washington County	27	2040EST			0	0	5	0	Lightning
Lightning started a fire that destroyed a house on Route 1, causing \$60,000 in damage.									
Lenoir City, Loudon County	27	Night			0	0	3	0	Thunderstorm Wind
A tree, uprooted by strong thunderstorm winds, fell on and damaged two houses and a vehicle.									

41 TEXAS, Northern

Parker County	2	1425CST 1425CST 1510CST			0	0	?	?	Hail (0.75) TSTM Winds (50) TSTM Winds (56)
Dime size hail and winds to 50 knots were observed in the northwest part of the county at 1425CST. Winds to 56 knots destroyed a mobile home and several barns in the southeast part of the county at 1510CST.									
Tarrant County	2	1520CST			0	0	?	?	TSTM Winds (52)
Winds to 52 knots were observed 5 miles east of Aledo at 1520CST.									
Hood County	2	1530CST			0	0	?	?	TSTM Winds (52)
Winds to 52 knots were observed in the northwest part of Granbury at 1530CST.									
Palo Pinto County	2	1630CST			0	0	?	?	TSTM Winds (56)
Winds to 56 knots were observed in Mineral Wells at 1630CST.									
Taylor County	2	1645CST			0	0	3	0	TSTM Winds
Strong winds broke several windows in a motel in Abilene at 1645CST and also broke the windows of several nearby cars.									
Harrison County	3	0225CST			0	0	?	?	Hail (1.00)
Hail up to one inch in diameter fell in an area south of Hallsville and east of Estes.									
Panola County	3	0420CST 0420CST 0425CST 0545CST 0545CST			0	0	?	?	TSTM Winds Funnel Cloud Funnel Cloud Hail (1.00) TSTM Winds
Trees and power lines were downed by strong winds between Woods and Gallaway at 0420CST. A funnel cloud was also observed at the same location at 0420CST. A funnel cloud was observed near River Hill at 0425CST. Hail up to the size of nickels fell at Beckville at 0545CST where strong winds also downed several trees.									
Shelby County	3	0438CST			0	0	?	?	TSTM Winds
Strong winds uprooted several trees near Paxton in the northern part of the county.									
Smith County	3	0450CST			0	0	?	?	TSTM Winds
Strong winds downed power lines northeast of Tyler.									
Gregg County	3	0535CST			0	0	?	?	Hail (1.00)
Hail up to one inch in diameter fell at Easton in the extreme eastern part of the county.									
Rusk County	3	0538CST			0	0	?	?	Hail (1.00)
Hail up to one inch in diameter fell near Tatum in the northeast part of the county.									
Stephens County	3	1320CST			0	0	?	?	TSTM Winds (52)
Winds up to 52 knots were observed near Breckenridge.									

— TEXAS, Northern

Bell County	3	1400CST	Short Narrow		0	0	0	0	Tornado (F0)
A tornado was briefly observed in open country along Highway 36 near Temple.									
Tarrant County	3	1425CST 1500CST 1500CST			0	0	?	?	TSTM Winds (60) TSTM Winds TSTM Wind (52)
Winds to 60 knots were observed near Texas Christian University in Fort Worth at 1425CST. Strong winds ripped off a 2500 square-foot section of roof at a warehouse in the north part of Fort Worth at 1500CST, producing about \$100,000 damage. Winds to 52 knots destroyed a mobile home in Haltom City at 1500CST.									
Upshur County	3	1500CST			0	0	?	?	TSTM Winds
Strong winds uprooted a tree just southeast of Gilmer.									
Gregg County Harrison County	3	1505CST 1505CST			0	0	?	?	TSTM Winds TSTM Winds
Strong winds downed trees near Judson in Gregg County and north of Longview Heights in Harrison County.									
Hopkins County	3	1510CST			0	0	?	?	TSTM Winds
Strong winds uprooted trees and downed power lines just east and just north of Sulphur Springs.									
Denton County	3	1525CST			0	0	4	?	TSTM Winds
Strong winds ripped the roof off a mobile home between Krum and Bolivar.									
Wood County	3	1545CST 1605CST			0	0	4	?	TSTM Winds TSTM Winds
Strong winds downed trees and power lines and took the roof off a garage 5 miles north of Quitman at 1545CST. Strong winds also downed trees just south of Quitman at 1605CST.									
Kaufman County	3	1715CST			0	0	?	?	Hail (0.75)
Hail up to 3/4 inch in diameter fell at Forney.									
Palo Pinto County	10	1450CST			0	0	?	?	TSTM Winds (52)
Winds to 52 knots were observed at Graford.									
Nacogdoches County	10	2030CST	Short Narrow		0	1	5	?	Tornado (F1)
A tornado destroyed 4 chicken houses and damaged 7 others four miles east of Chireno.									
Dallas County	11	2004CST			0	0	?	?	TSTM Winds (50)
Winds gusted to 50 knots at Redbird Airport in Dallas.									
Brown County	17	1600CST	Short Narrow		0	0	4	0	Tornado (F1)
A tornado destroyed a mobile home and damaged a gas station and church along Highway 279 near Lake Brownwood.									
Falls County	18	1800CST			0	0	4	0	TSTM Winds
Strong winds destroyed a mobile home near Chilton.									

41 TEXAS, Southern

Wharton County	03	1725-1830CST			0	0	0	0	Hail (0.75)
In Wharton, 4 men were slightly injured when lightning struck near a tent structure that they were holding up. High winds from a thunderstorm downed trees across a road just north of Wharton. Power lines and billboards were also damaged. In the southwest part of the county near Louise, high winds from a thunderstorm downed trees and power lines. There was damage also to signs and the roof of one carport.									
Three-quarter inch hail fell at Wharton, New Gulf and Boling.									
In Wharton, 4 men were slightly injured when lightning struck near a tent structure that they were holding up. High winds from a thunderstorm downed trees across a road just north of Wharton. Power lines and billboards were also damaged. In the southwest part of the county near Louise, high winds from a thunderstorm downed trees and power lines. There was damage also to signs and the roof of one carport.									
Colorado County	03	1850CST 1850CST			0	0	0	0	Hail (0.75) Lightning
Hail the size of dimes fell at Bernardo. Lightning struck a van and injured one occupant near Altair.									
Harris County	04	1600CST			0	0	5	0	Wind
High winds from a thunderstorm toppled trees and signs on the north, west and southwest sides of the city of Houston. One office trailer was destroyed. There were a few broken windows from fallen limbs and trees. A roof was blown off of one building.									

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AUGUST 1986

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					KILLED	INJURED	PROPERTY	CROPS	
TEXAS, Southern									
Brazoria County	11	1340CST			0	0	4	0	Wind
									High winds from a thunderstorm ripped the roof off of a mobile home in Manvel which is in the northeast part of the county.
Brazos County	18	1600-1715CST			0	0	5	0	Wind
									High winds from a thunderstorm ripped the roof off of an office and an apartment complex building.
Kinney County	19	1800CST			0	0	5	0	Wind
									High winds from a thunderstorm destroyed a barn and uprooted many trees in and around Brackettville. There was also some roof damage at Fort Clark.
Maverick County	19	Night			0	0	4	0	Wind
									High winds from a thunderstorm broke out store windows from three businesses in Eagle Pass. There was one large sign that was blown over. Several trees were blown over, one of which fell on a car.
Galveston County	21	1335CST			0	0	5	0	Wind
									High winds from a thunderstorm broke out windows in a condominium complex on the east end of the Island, U.S. Coast Guard reported one shrimp boat sank in rough water due to high winds.
Cameron and Hidalgo Counties	21	1545CST			0	0	0	0	Hail (0.75)
		?			0	1	0	0	Lightning
									Hail the size of pennies fell at McAllen. Lightning struck near a fisherman on Delts Lake near Santa Rosa and the man was taken to a hospital and later released.
Aransas, Nueces and San Patricio Counties	21	1600-1800CST			0	0	5	0	Wind
									High winds from a cluster of severe thunderstorms on the middle Texas Coast produced the following severe weather events. The hardest hit area was in and around Port Aransas where winds gusted to near hurricane force (74 MPH). Two boats capsized and several boats had to be towed to port due to the very rough water. The extremely high downburst caused and unusual tide fluctuation on the Aransas Pass Channel at Port Aransas. A three foot variation in the tide was observed in less than an hour's time. Fences, signs and trees were downed in Port Aransas. There was also some roof damage. The U.S. Coast Guard Station on the island measured the wind to 58 MPH, 7 miles offshore, a U.S. Corps of Engineers dredge reported a wind gust to 92 MPH. Rockport reported wind damage to fences and signs with a 65 MPH wind. Portland winds were reported to be 56 MPH. Flour Bluff reported trees and fences down. Palm trees were toppled in parts of Corpus Christi.
Polk County	24	Afternoon			0	0	5	0	Wind
									High winds from a thunderstorm downed trees and power lines on the northeast side of Livingston. Downed trees blocked at least two streets. One business building lost its metal roof. One house was crushed beneath a large tree that was blown over. Winds were estimated by one observer to be near 70 MPH.
Atascosa County	26	Evening			0	0	3	0	Hail (?)
									Hail beat up a truck traveling on Interstate 37 near Pleasanton. Hail size was not reported.
Val Verde County	28	0900CST			0	0	0	0	Flash Flooding
									Heavy rains produced flash flooding in the northern part of the county. 3.85 inches of rain fell 10 miles northeast of Juno. Hwy. 163 was closed north of Comstock. Hwy. 1024 was closed at Pandale due to high water. Several other roads were closed in the area.
Cameron County	29	1400CST			0	0	0	0	Flash Flooding
									4.22 inches of rain fell in Harlingen and produced local street flooding.
41 TEXAS, Western									
Ector County	02	1728CST			0	0	?	?	Windstorm
									Thunderstorm wind gusted to 60 mph in western Odessa near the Andrews highway. Damage was unknown.
Castro County	02	1700-1800CST			0	0	?	?	Windstorm
					0	0	0	5	Hail (1.75)
									Golfball-sized hail fell across the central part of the county in conjunction with the storm that produced the Dimmitt Airport tornado (below). The hail inflicted nearly total damage to a 3-mile wide strip of cotton, mlo, and watermelons. Some of the melons were cracked open, with dents the size of half dollars on them.
TEXAS, Western									
Castro County	02	2030CST Short	40	0	0	0	5	?	Tornado (F1)
									An apparent tornado struck Dimmitt Municipal Airport around sunset. The tornado overturned and heavily damaged three aircraft, destroyed a hangar, and threw a truck several yards. Damage was estimated at 75,000 dollars.
Moore County	03	0015CST			0	0	5	0	Windstorm
									Thunderstorm wind inflicted widespread damage around the city of Dumas. Wind completely destroyed a 40-foot travel trailer at the S&W Camper Sales Lot. Just west of the Dumas-Moore Airport, an 80-foot mobile home was rolled into a garage, resulting in the total destruction of both. Two 8-foot stock tanks, located 6 miles west of Dumas, were blown from their tie-downs a distance of 1/2 mile, narrowly missing two homes.
Gray County	03	0030CST			0	0	4	0	Lightning
									The home of County Judge Carl Kennedy sustained extensive fire and smoke damage after lightning struck and set the house afire on the north side of the city of Pampa.
Hemphill County	03	0100CST			0	0	5	0	Lightning
									Lightning struck a rural home at the Moore Ranch, 15 miles north-east of Miami. The unoccupied house was completely destroyed by fire.
Castro County	08	1620CST			0	0	?	?	Windstorm, Hail (1.75)
									Sheriff's office reported very strong gusty wind and heavy rainfall in Dimmitt, while golfball-sized hail pummeled the community of Hart in the southeast part of the county. A metal outbuilding was destroyed, windows were broken, and power lines downed.
Potter County	08	1751CST			0	0	0	0	Hail (0.75)
									Dime-sized hail was observed at the Amarillo Weather Service Office.
Sutton, Schleicher & Crockett Counties	11	Midnight-0700CST			0	0	?	?	Heavy Rains
									A cluster of nearly stationary thunderstorms dropped between 4 and 6 inches of rain over much of the normally dry counties. Water was over roadways in southern Crockett County.
Crockett County	11	Morning-Afternoon			0	0	?	?	Flash Flooding
									Very heavy rainfall continued over Crockett County, with 6 inches of rain falling at the Henderson Ranch, southwest of Ozona. Creeks and draws ran full, spilling water over farm and ranch lands and roads.
Reagan County	11	1439CST			0	0	0	0	Funnel
									A deputy sheriff reported a funnel cloud in the northern part of the county.
Randall County	13	1640CST			0	0	5	0	Windstorm
									Thunderstorm wind destroyed 2 barns and 3 mobile homes, and damaged roofs along Pullman Road between 3.8 and 4.8 miles south of the Amarillo Weather Service Office.
Ochiltree County	13	1835CST			0	0	?	0	Hail (2.75)
									Baseball-sized hail fell about 15 miles southwest of Perryton, just north of the community of Waka.
El Paso County	13	2115CST			0	0	0	0	Windstorm
									Thunderstorm wind gusted to 60 mph at the Asarco Plant in the west part of the city of El Paso. No damage was noted.
El Paso County	14	0040CST			0	0	4	0	Lightning
									Lightning struck and set fire to a building in the 200 block of South Conception in central El Paso.
Eastern South Plains	14-15	Evening-Morning			0	0	?	?	Heavy Rain, Flash Flooding
					0	0	?	0	Lightning
									A cluster of thunderstorms embedded in a large mesoscale convective complex brought rains of between 3 and 5 inches over most of the eastern South Plains. The rains fell largely in a period of less than 6 hours, resulting in flash flooding that closed many roads over the area and inflicted an unknown amount of crop damage due to flooded fields.
									Lightning strikes resulted in numerous power outages and fires over the area, principally in Lubbock County. At least three homes were struck by lightning.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1986

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					KILLED	INJURED	PROPERTY	CROPS	
TEXAS, Western									
Crosby County	14-15	1800-0500CST			0	0	?	?	Flash Flooding
									Rainfall totalling between 3 and 4 inches sent flood waters over State Highway 40 in the eastern part of the county, closing the highway to all traffic for 12 hours.
Dickens County	14-15	1800-0500CST			0	0	?	?	Flash Flooding
									Rains of between 3 and 4 inches soaked most of the county. Rural highways between Dickens, Spur, and counties to the south and west were partially underwater. Rainfall at Spur totaled 4.43 inches.
Lubbock County	14-15	1900-0400CST			0	0	?	?	Flash Flooding Lightning
									Rainfall totaling up to 3 inches over the southern part of the city of Lubbock fell within a space of 30 minutes (between 2200 and 2300 CST), causing widespread street flooding. Quaker Street, just north of Loop 289, was closed due to high water from a flooded plays lake for several days thereafter.
									Lightning knocked out power over portions of the city intermittently for several hours during the event.
Garza County	14-15	1900-0600CST			0	0	?	?	Flash Flooding
									The large complex of rain and thunderstorms spread into Garza County, bringing a protracted seige of heavy rainfall. Rains of between 3 and 4 inches sent water over U.S. Highway 84, blocking early morning traffic and flooding cotton crops. Much of the cotton was damaged beyond survival.
Midland County	15	1834-2000CST	Short 30		0	0	0	0	Funnels Windstorm Tornado (FO) Flash Flooding
									A slow-moving thunderstorm pushed across the county, reducing visibility to as little as 50 feet in heavy rain in the city of Midland. The heavy rain caused flooding that closed Interstate 20 south of the city of Midland.
									At least one funnel was reported by four sources (between 1903 and 1920 CST) across the west and northwest part of the county. The Department of Public Safety reported a tornado 12 miles east-northeast of Midland Airport. There was no apparent damage.
									A downburst destroyed a barn and spread its debris across County Road 120. Wind was estimated to have been 95 mph.
Winkler County	25	1929CST			0	0	?	?	Windstorm Flash Flooding Funnels
									High wind, very heavy rain, and numerous funnels accompanied a thunderstorm in the city of Kermit. The rain caused widespread flooding in the city.
Winkler County	25	1930-1949CST			0	0	4	?	Windstorm Flash Flooding
									The same storm complex that struck Kermit concurrently brought high wind and heavy rainfall to the city of Wink. A storage building was overturned, porches damaged, and one trailer unroofed by wind at 1949 CST. Wind was estimated to have been 65 to 75 mph. Several homes were flooded because of the heavy rains.
Winkler County	25	2113CST			0	0	?	?	Windstorm Flooding
									A second severe thunderstorm poured heavy rain over the city of Wink, and high wind inflicted additional unspecified damage within the city. Over 5 inches of rain fell during the evening.
Scurry and Nolan Counties	26	0930-1045CST			0	0	?	?	Flash Flooding
									Strong thunderstorms moved very slowly across the area, producing 4.50 inches of rain at Hermeleigh in southeast Scurry County. Water rapidly collected in fields and low water crossings. By 1045 CST, the Roscoe Police closed U.S. Highway 84, 9 miles northwest of the city in extreme northwest Nolan County, due to water over the roadway. The highway remained closed through mid-afternoon.
Brewster and Culberson Counties	27	0200-0510CST			0	0	?	?	Flash Flooding
									Early morning thunderstorms dumped 3.60 inches of rain at Guadalupe Pass and 1.49 inches in just 40 minutes at Radio Station KVLF in Alpine. The rain flooded streets in Alpine.
TEXAS, Western									
Tom Green and Coke Counties	27	0830-1450CST			0	0	?	?	Flash Flooding
									Torrential rains from nearly stationary thunderstorms pounded the Water Valley - Grape Creek area. On top of what was between 3 and 6 inches of rain the previous day, flood water quickly made roads impassable in Coke County. Streets were flooded in the community of Bronte.
									Between 5 and 6 inches of rain fell between San Angelo and Water Valley in northwest Tom Green County, pushing water into homes. In Carlsbad, Post Oak Road at U.S. Highway 87 had between 3 and 5 feet of water over it.
									The flooding of the two-county area continued well into the afternoon, and by 1400 CST the Highway Department closed FM Road 2288 at the North Concho River as water poured over the bridge.
Concho Valley and Permian Basin	28	Early Morning- Early Evening			0	0	?	?	Flash Flooding
									Very heavy rains associated with a vigorous upper level disturbance resulted in flash flooding over the Concho Valley and parts of the Permian Basin. Rainfall totaled over 7 inches in southern Coke, northern Tom Green, southern Crockett, and Crane Counties.
Coke and Tom Green Counties	28	0627-1130CST			0	0	5	?	Flash Flooding
									A cluster of nearly stationary thunderstorms produced flooding in and near Robert Lee. The Department of Public Safety reported FM Road 2034 north of Water Valley closed due to high water. By 1100 CST, between 7 and 8 inches of rain had fallen between Water Valley and the community of Grape Creek.
									The rainfall pushed Grape Creek and other nearby streams out of their banks. Street flooding crippled the community of Grape Creek, while FM Road 2288 northwest of San Angelo was closed at the Concho River. At least 5 homes were flooded in Grape Creek.
Crane County	28	0844-1300CST			0	0	?	?	Flash Flooding
									The City of Crane Civil Defense Director reported torrential rain that left 2 feet of water in the city during mid-morning. By 1240 CST, more than 7 inches of rain had poured on the town. The Crane County Sheriff's Office reported that city streets were completely under water and some houses were flooded.
Crockett County	28	1130CST			0	0	?	?	Flash Flooding
									Very heavy rain closed State Highway 163, FM Road 1024, and Taylor Box Road in the southern part of the county. By 1515 CST, the Bob Childress Ranch in the southern part of the county had collected 7.50 inches of rain.
Howard County	30	1945CST			1	?	6	?	Flash Flooding
									Rains from "train-echo" thunderstorms moving across the county totaled as much as 4.80 inches at Vincent and 2.50 inches at Lomax. The rainwater flooded streets and filled streams to bankfull. In Big Spring, Cosden Lake earth dam overflowed and developed a 9-foot crack that caused flooding in parts of Big Spring. Around 2215 CST, a pickup with 3 passengers (father, mother, and son) was swept off the road at the 2000 block of Birdwell Lane, downstream from the dam. Father and son held on to a tree branch, but the mother (Mary Gutierrez, age 44) lost hold of the branch and drowned. F44V
Hartley County	30	2133CST			0	0	0	0	Flash Flooding
									Thunderstorms moving slowly southward across the county resulted in flooded roadways.
Bailey and Lamb Counties	31	0322CST			0	0	?	?	Flash Flooding
									Rains of between 2 and 3 inches caused widespread flooding of fields. The fields overflowed across rural roadways west of Earth in Lamb County and caused their closure. Street flooding was reported in the city of Muleshoe in Bailey County.
Hale County	31	0345CST			0	0	0	0	Flash Flooding
									Rains of between 2 and 3 inches caused widespread street flooding in the city of Plainview, according to police department officials.
Midland County	31	1940-2018CST			0	0	5	0	Windstorm
									Thunderstorm wind downed power lines and spun an automobile around in the western part of the county. A power pole was broken by wind on FM Road 160 at Holiday Hill Road in the northwest part of the county.
Ector County	31	2110CST			0	0	0	0	Hail (0.75)
									Dime-sized hail was reported by a Skywarn Spotter 10 miles south of Goldsmith.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1986

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
42 UTAH									
Duchesne County	08-08	1600MST 1615MST			0	0	1	0	Hail (1.00)
		A thunderstorm covered the ground with 1 inch diameter hail in Fruitland. The spotter who reported the hail received no rain during the storm.							
Salt Lake County	12	unk			0	0	2	0	Lightning
		Lightning struck a roof-mounted evaporative cooler in Sandy. No one was injured and damage was minimal.							
Davis, Morgan, Salt Lake, Tooele, and Utah Counties	20-20	1915MST 2200MST			0	0	5	0	Flash Flooding
Utah County	20	unk			0	0	4	0	Thunderstorm Winds
		Heavy thundershowers produced 2.10 inches of rain between 6 and 9 p.m. MDT in Tooele on this Wednesday evening, and over 1.50 inches in most places along the Wasatch Front. Widespread urban flooding occurred, but no injuries and only moderate damage was reported. Shortly after 8 p.m., the Utah Highway Patrol reported 8 to 10 inches of water in some spots over Interstate 84 through Morgan County. The city of Morgan received a storm total of 2.20 inches, which was the most rainfall reported from the storm. By 9 p.m., reports from Tooele indicated some basement flooding, but only minor damage. In Salt Lake and Davis counties however, flooding was more extensive and caused more damage. Street flooding in the east sections of the Salt Lake City downtown area stranded "a lot of cars" in intersections where 1 to 2 feet of water had accumulated. The road up City Creek Canyon was undermined by the runoff and closed through the next day. Four inches of water collected in the University of Utah's Chemistry building as rain came through ventilation shafts. Ten to fifteen other buildings on the campus also had water. In Davis County, 20 to 25 homes in Farmington had flooded basements and mud and debris flows blocked several smaller roads. In Utah County, high winds from the storms blew trees into power lines in several areas and knocked the power out to 1500 homes for about 90 minutes. Also in Utah County, minor flooding, mudslides and rock slides occurred in American Fork, Provo, and Spanish Fork canyons.							
Emery County	24	1300MST			0	0	2	0	Flash Flood
Emery County	24	1830MST			0	0	2	0	Flash Flood
		Flash flooding occurred on two occasions on this Sunday afternoon and evening. The first occurred at the Cleveland Lloyd Dinosaur Quarry area. Persons in the area reported that up to two feet of water quickly filled ravines and that water was up to the truck doors in some intersections. The second occurred along Utah Highway 10 between Moore and Interstate 70. Water 3 to 4 feet deep accumulated along that roadway. Little or no damage was reported.							
Iron County	29	1505MST			0	0	3	0	Flash Flood
		Heavy rainfall during the daytime hours produced a flash flood which covered parts of Utah Highway 56 and Interstate 15 south of Cedar City with 5 to 6 feet of water. Reports were received from the Utah Highway Patrol and the Sheriff's Office in Cedar City. Spotters in the area estimated that the heaviest rain fell between Cedar City and Kanarrville. One spotter in the area measured 1 inch of rain in 30 minutes.							
Garfield County	30	1345MST			0	0	1	0	Hail (1.75)
Grand County	30	1610MST			0	0	1	0	Hail (1.00)
		A thunderstorm moving through eastern Utah produced large hail in at least two different places. The first report of hail came from a spotter in Boulder. That storm lasted for about 10 minutes and covered the ground with hail up to 1 3/4 inches in diameter. Shortly afterward, another report of 3/4 inch to 1 inch hail was received from the Utah Highway Patrol along Interstate 70, 20 miles east of Green River at Spotted Wolf Summit. The hail piled up 6 inches deep on the ground.							
Wayne County	31	1430MST	N/A	N/A	0	0	1	0	Tornado (F0)
		A tornado touched down for about 10 minutes in eastern Wayne County just west of the "Island in the Sky" ranger station. A National Park Service Ranger and several visitors watched the tornado from a distance. No damage was suffered because the tornado tracked across undeveloped desert land. Path length and width are also unavailable.							
Sevier County	31	1430MST			0	0	1	0	Hail (0.75)
		Hail that was estimated to be at least 3/4 of an inch in diameter destroyed the roof of a Volkswagen convertible in Sigurd.							
43 VERMONT									
Addison County	06	1810EST			0	0	3	3	High Winds
Addison County	06	1930EST			0	0	3	3	High Winds
Addison County	06	2000EST			0	0	3	3	High Winds
Windsor County	06	2000EST			0	0	3	0	High Winds
Rutland County	06	2100EST			0	0	3	0	High Winds
Rutland County	06	2100EST			0	0	2	3	High Winds
Rutland County	06	2100EST			0	0	2	2	High Winds
Chittenden County	07	1740EST	200**	20	0	0	2	4	Tornado (F0)
		A tornado touched down in the town of Westford. It was observed by a local citizen.							
Chittenden County	08	1540EST			0	0	0	0	Funnel Cloud
		Six persons reported sighting a funnel cloud between the towns of Essex and Jericho. Sightings were made between 1540-1550 EST. All reported a rotating funnel elongating and dropping-out of the clouds to within 100 feet of the ground.							
Calendoncia County	08	Unk			0	0	6	0	Flash Flood
		Heavy rain resulted in streams around Byegate overflowing their banks. The heavy rain also collapsed a beaver dam which added to local flood problems. A number of roads had large gaping holes in them, many of which had just been repaired from last months heavy rain.							
Chittenden County	23	Unk			0	0	3	0	High Wind
Chittenden County	23	0232EST			0	0	4	0	Wind Gust
		High winds blew down power lines, broke boats loose from their moorings, and knocked over trees.							
44 VIRGINIA									
Warren County and Clark County	02	1330EST	1	50	0	0	?	?	Tornado (F1)
		A tornado crossed Bowling Green Golf Course, destroying a barn. The roof of the barn was carried about 100 feet. Another barn and about 100 trees were destroyed in Clark County.							
Madison County and Campbell County	02	1430EST			0	0	?	?	Thunderstorm Winds
Goochland County	02	1625EST			0	0	?	?	Thunderstorm Winds
		A line of thunderstorms moved east across western Virginia. A roof was torn off a building 8 miles east of Lynchburg. Several trees were downed.							
Pulaski County	06	1400EST			0	1	0	0	Lightning
		An 81 year old woman was struck by lightning while cooking at an iron woodstove. She was blown across the room and struck a wall. She recovered fully.							
Shenandoah County	06	1400EST			0	0	4	?	Thunderstorm Winds
		Half the roof was blown off a barn south of Strasburg during a thunderstorm.							
Nottaway County	06	1700EST	0.5	30	0	0	4	?	Tornado (F1)
		A tornado demolished a 50 by 80 foot screen at a drive-in theater and did considerable damage to a private residence. Several dozen trees were uprooted.							
Prince William County	06	1800EST			0	0	6	?	Flash Flood
		In the worst flooding since Hurricane Agnes in 1972, 4.50 inches of rain fell in less than 90 minutes in western Prince William County. Several homes were flooded in Manassas, with waters as high as 10 feet inside one residence. Several cars and trucks were overturned by waves of water.							
Botetourt County	07	1310EST			0	0	?	?	Hail
		One inch hail fell near Eagle Rock and 1 1/4 inch hail fell west of Buchanan.							
Lee County	07	Afternoon			0	1	0	0	Lightning
		A 23 year old woman was struck by lightning while standing next to a tree in Ewing. She was knocked unconscious and is expected to remain severely brain damaged.							

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1986

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
VIRGINIA									
VAZ001-002 Eastern Shore and Coastal Area	17	Evening			0	?	6	?	Hurricane Charley
	Hurricane Charley moved north-northeast, parallel to the coast, passing over extreme southeastern Virginia and just east of Cape Charles. Winds gusted to 82 MPH at Cape Henry, 81 MPH at the Norfolk Coal Pier, and 63 MPH at the Norfolk International Airport. Around 1000 PM, a gust of 103 MPH was registered on a tower of the Chesapeake Bay Bridge Tunnel, about 100 feet above the bridge. Many trees were downed, including 250 in Hampton Roads. High tides were 2.3 feet above normal, causing widespread flooding of low-lying areas. Some of the worst flooding was in Fort Monroe. Over 110,000 homes were without power in Hampton Roads and elsewhere. Six foot waves destroyed over 70 feet of a fishing pier in Norfolk. Total damages were estimated at under one million dollars.								
Gloucester County	27	1730EST			0	3	0	0	Lightning
	Three people were struck by lightning while standing under a tree. Two people required hospitalization, while the third was released after treatment.								
45 WASHINGTON									
Yelm (Thurston Co.)	28	approx. 1400PST			0	0	4	0	Thunderstorm, Lightning
	Thunderstorms during the middle and late afternoon caused lightning that struck the Yelm School District building, damaging the phone system and some computer equipment. Total damage was near \$15,000. Necessary repairs kept school from opening for another 7 days.								
Mabton (Yakima Co.)	29	0530-			0	1	?	0	Thunderstorm, Lightning
Othello (Adams Co.)	0605PST	An area of early morning thunderstorms moved across the south-central valleys with vivid lightning. In the town of Mabton, a 16 year old girl was injured slightly when lightning hit a transformer and was carried along phone lines into the house where it struck the girl in the shoulder and knocked her out.							
	To the northeast in Othello, lightning made a direct hit just outside the window of a home where a woman was standing. The witness said the bolt struck 30 feet from the house and threw dirt and grass 20 feet into the air, leaving a trench in the ground, and bark was knocked off nearby trees.								
46 WEST VIRGINIA									
Berkeley County	16	1400EST			0	4	4	0	Wind
	High winds associated with strong thunderstorms caused a church under construction to collapse. Four workers were injured and the building was totally destroyed.								
Cabell County	23	2015EST			0	3	3	0	Lightning
	Lightning struck a barn during a thunderstorm near Salt Rock. Three firefighters were injured while fighting the blaze which totally destroyed the structure.								
Kanawha County	23	2100EST			0	1	3	0	Wind
	Winds associated with strong thunderstorms passing through east-central West Virginia blew down a 20 foot scaffold tower set up for the Sternwheel Regatta. One man was injured when hit by the falling tower.								
47 WISCONSIN									
Glidden, Ashland Co.	01	1225CST			0	0	3	3	Hail (1.75)
	Hail up to golfball size nearly covered the ground from a severe thunderstorm near Glidden. Gardens were pelted, windows were broken, and damage occurred to the finish on vehicles.								
Tomahawk, Lincoln Co.	01	1330CST			0	0	3	3	Thunderstorm Winds
	Gusty thunderstorm winds snapped several trees and caused minor house damage 1W of Tomahawk.								
Marion, Waupaca Co.	01	1645CST			0	0	3	3	Thunderstorm Winds
	Intense thunderstorm winds near Marion blew trees over, tearing out power lines, some of which wrapped around a heifer's neck, killing it. Another downed tree crushed a car.								
Bay of Green Bay, Door Co.	01	1730CST			0	0	0	0	Funnel Cloud
	01	1735CST			0	0	4	?	Thunderstorm Winds
	A severe thunderstorm created a funnel cloud over the Bay of Green Bay near Fish Creek. Violent winds from the thunderstorm caused considerable damage to a barn and house 1E of Fish Creek. Sections of the siding were found 4 miles from the house.								
Lake Michigan, Kewaunee Co.	02	1445CST			0	0	0	0	Waterspout
	A waterspout was observed over Lake Michigan just east of Algoma.								
Milwaukee Co. Waukesha Co.	06	1100-1700CST			1	0	7	?	Flash Flood
	The Milwaukee Metropolitan area was hit with a cloudburst breaking all previous rainfall records for a storm duration of 5 minutes to 24 hours. At Mitchell International Airport, 3.06 inches of rain fell between noon and 1pm cdt with an additional 2.18 inches falling between 1pm and 2pm cdt. A 5 to 7 plus inch rainfall swath ran roughly from Oak Creek (where 7.25 inches fell) through South Milwaukee, West Milwaukee to Maunatos. 2 to 5 inch amounts were measured over southwest and northeast portions of Milwaukee County, as well as northeast Waukesha County. An eleven year old boy was swept to his death by the Kinnickinnic River. An 80 year old disabled woman was found dead in her flooded basement after suffering a heart attack. Around \$5.9 million in damage occurred throughout the area. Mitchell Airport, where \$2 million in damage took place, was put out of service when 9 million gallons of water entered the lower level of the main terminal building containing electrical, communication, computer, and other equipment. A lightning bolt blew a 4 foot hole in Runway 7, the primary east-west runway. Across the two counties, 10,000 basements were reported flooded by the rainwater and sanitary sewer backups, with the hardest hit area in the Bay View portion of the south side of Milwaukee. The damage ranged from collapsed foundation walls to content damage. DePaul Rehabilitation Hospital received \$1 million damage and had to evacuate 100 patients when flood waters entered the ground level of the building. Milwaukee County Stadium was flooded up to the fourth row of the lower box seats. Numerous streets and underpasses were flooded, stalling countless vehicles and stranding many people.								
Salem Township, Pierce Co.	07	1145CST			0	0	3	0	Lightning
	Lightning struck and killed seven Holstein steers, and four heifers standing under a tree in Salem Township.								
Wittenburg, Shawano Co.	07	1640CST			0	0	0	?	Hail (0.75)
	Dime size hail from a severe thunderstorm was deposited near Wittenburg.								
Minong, Washburn Co.	09	1718CST			0	0	0	0	Funnel Cloud
	A funnel cloud was spotted 2W of Minong.								
Albany, Green Co.	14	0600CST			0	0	3	0	Lightning
	Lightning from a thunderstorm struck and killed 6 beef calves and also caused extensive damage to the wiring of a house near Albany.								
Knapp, Dunn Co.	16	1823CST			0	0	?	?	Hail (1.75)
	A severe thunderstorm dumped hail up to golfball size near Knapp.								
Merrill, Lincoln Co.	16	1940CST			0	0	?	?	Hail (0.75)
	Hail up to 3/4 inch in diameter fell from a severe thunderstorm 4N of Merrill.								

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1986

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

WISCONSIN

Houlton, St. Croix Co.	16 1949CST	0 0 ? ?	Hail (0.75)	An intense thunderstorm produced hail 3/4 inch in diameter in Houlton.				Character of Storm
Mondovi, Buffalo Co.	17 0230CST	0 0 4 4	Thunderstorm Winds	Very strong thunderstorm winds blew down 20 trees, a couple of which crushed a car and damaged a motor home in Mondovi. A motel and some power lines were also damaged.				Character of Storm
Beloit, Rock Co.	26 0600-0620CST	0 0 ? ?	Thunderstorm Winds	Strong thunderstorm winds knocked down several trees and power lines in Beloit.				Character of Storm
Florence Co.	SPRING & SUMMER	0 0 0 ?	Drought	A drought which saw only 3.64 inches of rain fall since spring, compared with a normal of 11.70 inches, caused widespread crop failure across the county. Hardest hit crops were hay and corn. One farmer decided to quit and others were selling some of their livestock.				Character of Storm

48 WYOMING

Laramie County: 25 NE Cheyenne 15 E Cheyenne	01 1850MST 01 1925MST	0 0 0 ? 0 0 ? ?	Hail (0.75) Hail (1.00)	Hail 3/4 of an inch in diameter was reported at 1850MST, 25 miles northeast of Cheyenne. At 1925MST, 1 inch hail fell at Hillsdale, 15 miles east of Cheyenne.				Character of Storm
Albany County, 15 ENE Laramie	02 1658MST	0 0 4 0	Hail (1.75)	Golf ball size hail 15 miles east-northeast of Laramie heavily damaged a deputy sheriff's car.				Character of Storm
Laramie County: 25 N Cheyenne 20 W Cheyenne Harriman	02 1555MST 02 1740MST 02 1800MST	0 0 0 ? 0 0 ? 0 0 0 ? 0	Hail (1.00) Hail (0.75) Hail (1.75)	At 1555MST, Air Force personnel reported 1 inch hail 25 miles north of Cheyenne. At 1740MST, 3/4 inch hail 20 miles west of Cheyenne piled up to a depth of a couple of inches. At Harriman, 25 miles west-southwest of Cheyenne, golf ball size hail fell at 1800MST.				Character of Storm
Laramie County, 3 SSE Cheyenne	03 1406MST to 1417MST	0 0 ? 0	Hail (1.00)	From 1406MST to 1417MST, hail up to 1 inch in diameter fell 2 to 4 miles south and southeast of Cheyenne. Minor urban and low-lying area flooding occurred in and around Cheyenne due to 3/4 to 1-1/4 inches of rain.				Character of Storm
Platte County: Glendo Guernsey	03 1610MST 03 1712MST	0 0 ? 0 0 0 ? 0	Hail (1.00) Hail (1.75)	At 1610MST, hail up to 1 inch in diameter fell in Glendo. At 1712MST, golf ball size hail was reported in Guernsey.				Character of Storm
Niobrara County, Lusk	03 1840MST	0 0 ? 0	Thunderstorm Wind (70)	Thunderstorm wind gusts to 70 mph knocked down several trees in Lusk.				Character of Storm
Laramie County: 7 S Cheyenne 10 W Cheyenne	14 1400MST 14 1506MST	0 0 0 ? 0 0 ? 0	Hail (0.75) Hail (1.75)	3/4 inch hail was reported 7 miles south of Cheyenne at 1400MST. At 1506MST, golf ball size hail fell 10 miles west of Cheyenne.				Character of Storm
Carbon County, Saratoga	17 Afternoon	0 0 0 4	Lightning	During the afternoon, a lightning-caused fire burned \$6,000 worth of baled hay just southeast of Saratoga.				Character of Storm
Fremont County, Riverton	23 1450MST	0 0 ? 0	Thunderstorm Wind (72)	At 1450MST, thunderstorm wind gusts to 72 mph were logged at the Riverton airport.				Character of Storm

WYOMING

Campbell County, Reno Junction	23 1830MST	0 0 4 0	Lightning	At 1830MST near Reno Junction, lightning struck two empty oil storage tanks, causing them to explode.				Character of Storm
Park County: Cody	25 0354MST	0 0 ? 0	Thunderstorm Wind (69)	At 0354MST, wind gusts to 69 mph were logged at the Cody airport with a thunderstorm. At 0430MST, 2 eyewitnesses 4 miles east of Cody saw a tornado destroy a trailer house and a shed. Trees were uprooted and cars damaged by flying debris. During the afternoon, lightning did \$8,000 damage to a TV transmitter near Cody.				Character of Storm
4 E Cody Cody	25 0430MST 25 Afternoon	1 25 0 0 0 0 4 0	Tornado (F1) Lightning					Character of Storm
Washakie County, Worland	25 1418MST	0 0 ? 0	Thunderstorm Wind (67)	At 1418MST, thunderstorm gusts to 67 mph were logged at the Worland airport.				Character of Storm

49 ALASKA, Northern — NO REPORT RECEIVED

49 ALASKA, Southern — NO REPORT RECEIVED

49 ALASKA, Southeastern — NONE REPORTED

50 HAWAII

HIZ001 Kauai	11 1730HST	0 0 4 0	Flash Flood	Heavy rains, locally in excess of 10 inches, caused some flash flooding along the north shore of Kauai. The Hanalei River also briefly overflowed.				Character of Storm
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51 PUERTO RICO

Maricao	31 1345AST	1 0 0 0	Lightning	A woman was killed by a bolt of lightning at the Monte del Estado camping area on Highway 120.				Character of Storm
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52 VIRGIN ISLANDS — NONE REPORTED

53 PACIFIC — NONE REPORTED

STORM SUMMARY

AUGUST 1986

TYPE	ALABAMA	ARIZONA	ARKANSAS	CALIFORNIA	COLORADO	CONNECTICUT	DELAWARE	FLORIDA	GEORGIA	IDAHO	ILLINOIS	INDIANA	IOWA	KANSAS	KENTUCKY	LOUISIANA	MAINE	MARYLAND & DC	MASSACHUSETTS	MICHIGAN	MINNESOTA	MISSISSIPPI	MISSOURI	MONTANA	NEBRASKA	NEVADA	NEW HAMPSHIRE
TORNADOES												SEE PAGE 57				SEE PAGE 57											
Number					4			9		5			3	3			2		2	3		1			3		2
Days					4			5		4			3	3			1		2	3		1			2		1
Deaths																											
Injuries								13					3	3					3	3							
Property Damage					3			6		4			4	5			6		5	5		5	4		6		6
Crop Damage								?					4	3			o/c						3		4		
HAIL																											
Deaths																											
Injuries					6																						
Property Damage	?		?		7				?	5			3	6	4		3				5	?	5		7		7
Crop Damage	?		?		7					6			5	5	5							?	?		7		7
THUNDERSTORM WINDS																											
Deaths	3																										
Injuries	4	22	12					4						19					6		1						
Property Damage	5	6	6		4	4		4	6	5	3		5	7	4		5	4	6	3	4	5	6		7	3	
Crop Damage						3			?	5			3	7	4		4						4				
HIGH WINDS																											
Deaths																											
Injuries																											
Property Damage				?		3													4	2							
Crop Damage				?																	?						
LIGHTNING																											
Deaths	2	1						3			1							4	2								
Injuries								3						2	3			2	1								
Property Damage	?	6	?		5	4		4	6	?			5	5	6		4	2	1	3		2			4		5
Crop Damage	?							4		4								2	2		5				4		
FLASH FLOODS																											
Deaths																											
Injuries																											
Property Damage		4		?																							
Crop Damage				?									4	4	4		5		5				5		6	5	5
FLOODS																											
Deaths																											
Injuries																											
Property Damage					6																						
Crop Damage													4	4													
HEAVY SNOWSTORMS AND BLIZZARDS ®																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
ICE STORMS #																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
HURRICANES AND TROPICAL STORMS																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage							4											4	5								
ALL OTHERS																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											1
																											5

SEE REFERENCE NOTES FOR STORM DAMAGE CATEGORIES

STORM SUMMARY

AUGUST 1986

TYPE	NEW JERSEY	NEW MEXICO	NEW YORK	NORTH CAROLINA	NORTH DAKOTA	OHIO	OKLAHOMA	OREGON	PENNSYLVANIA	RHODE ISLAND	SOUTH CAROLINA	SOUTH DAKOTA	TENNESSEE	TEXAS	UTAH	VERMONT	VIRGINIA	WASHINGTON	WEST VIRGINIA	WISCONSIN	WYOMING	ALASKA	HAWAII	PACIFIC	PUERTO RICO	VIRGIN ISLANDS	NATIONAL DEATHS & INJURY TOTALS		
TORNADOES																													
Number			2	2		1	2		1	3	4		SEE PAGE 57	5	1	1	2					1						1	
Days			2	1		1	2		1	2	2			5	1	1	2					1							
Deaths			1																										
Injuries			4			2				20				1		2	4											51	
Property Damage			6	5		6			3	6	3			5	1	4	?					4							
Crop Damage			5											?				1											
HAIL																													
Deaths																													
Injuries																												6?	
Property Damage		?	4	?	4	4	5	?	4		4	4		3	1		?				3	4							
Crop Damage		?	5	5	4	?	?	?	6	4	5	5		5			?			3	?								
THUNDERSTORM WINDS																													
Deaths				1							1																	5	
Injuries				2			4		1		4									5								86	
Property Damage		5	5	5	4	6	6		7	5	5	6		6	4	4	4		4	4	4	?							
Crop Damage		?	5	?	o/c	?	?		3		5	5		?			?			4									
HIGH WINDS																													
Deaths			1																									3	
Injuries											1																	4	
Property Damage			4							4																			
Crop Damage			4													4													
LIGHTNING																													
Deaths				2																					1			17	
Injuries				5																								43?	
Property Damage			2	5					7	1	5	3		6	2		5	1		3	4	4							
Crop Damage			6	5				o/c	?	4	4	5		5			4			4	4	4							
FLASH FLOODS																													
Deaths	2										4			1							1							8	
Injuries	2		4								1			?														7?	
Property Damage	4		9								6			6	5	6	6				7		4						
Crop Damage	4		6	?							5			?			?				?								
FLOODS																													
Deaths																													
Injuries																													
Property Damage			4	?							5																		
Crop Damage																													
HEAVY SNOWSTORMS AND BLIZZARDS @																													
Deaths																													
Injuries																													
Property Damage																													
Crop Damage																													
ICE STORMS #																													
Deaths																													
Injuries																													
Property Damage																													
Crop Damage																													
HURRICANES AND TROPICAL STORMS																													
Deaths				1																								1	
Injuries																	?											?	
Property Damage				6													6												
Crop Damage				6													?												
ALL OTHERS																													
Deaths																													
Injuries																													
Property Damage																													
Crop Damage			4								?																	3	

SEE REFERENCE NOTES FOR STORM DAMAGE CATEGORIES

REFERENCE NOTES

- † Storm damage categories are from 1 to 9 as follows:
- 1 Less than \$50
 - 2 \$50 to \$500
 - 3 \$500 to \$5,000
 - 4 \$5,000 to \$50,000
 - 5 \$50,000 to \$500,000
 - 6 \$500,000 to \$5 Million
 - 7 \$5 Million to \$50 Million
 - 8 \$50 Million to \$500 Million
 - 9 \$500 Million to \$5 Billion

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

Definition of Fujita Tornado Scale (F scale)

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

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

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

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

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

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

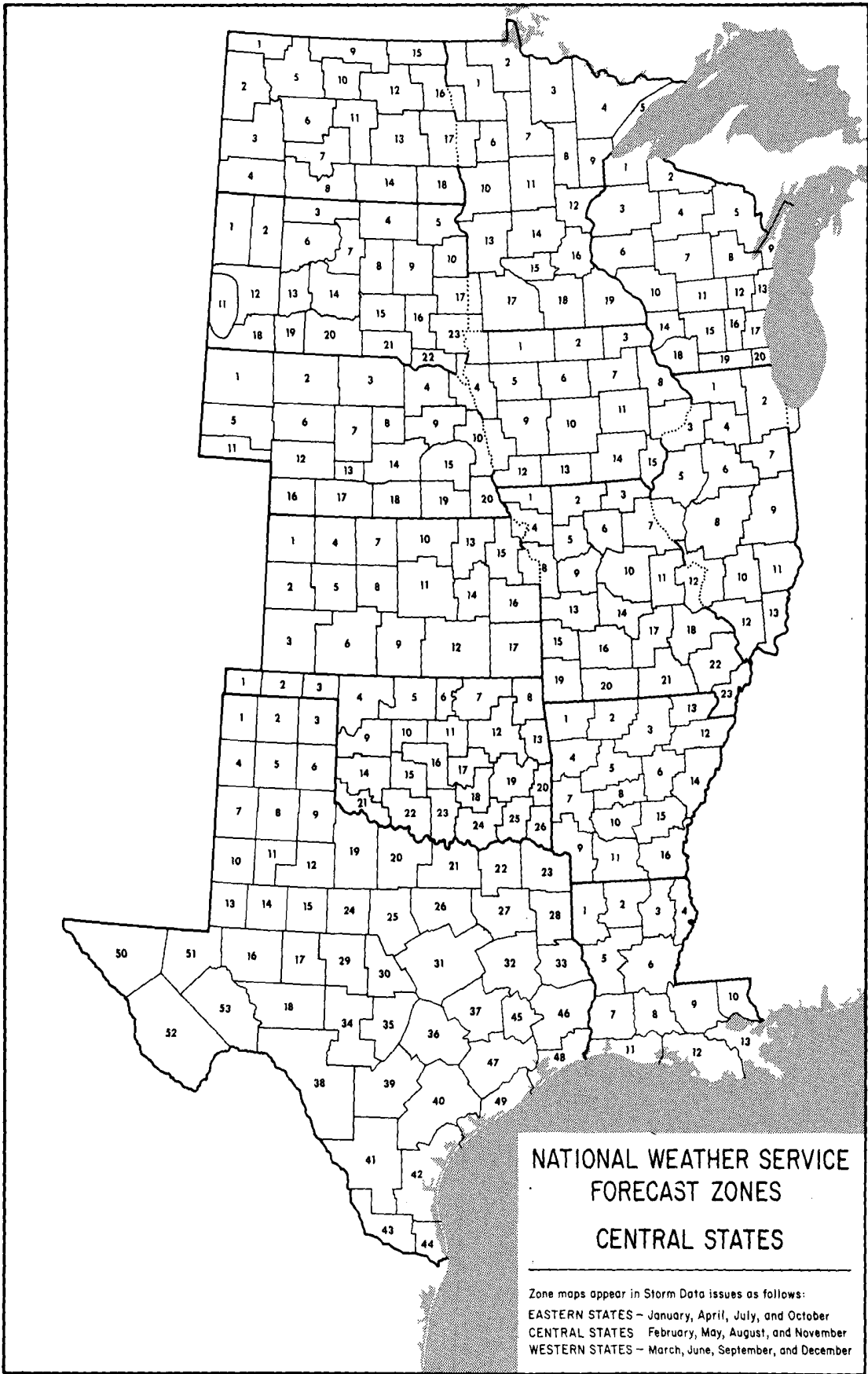
(F6-F12) (319 mph to Mach 1, the speed of sound):
The maximum wind speeds of tornadoes are not expected to reach the F6 wind speeds.

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

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



USCOMM-NOAA-ASHEVILLE, N. C. 1986-2075





Association of State Floodplain Managers
11th Annual Conference

Seattle, Washington
June 9 - 12, 1987

FLOODPLAINS '87

Realistic Approaches to Better Management

CONFERENCE HOST: Washington Department of Ecology

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

This year's conference theme focuses on realistic approaches to solving problems associated with managing floodplains:

- * How can practitioners best manage floodplains with minimal data?
- * How can state and local governments be instilled with a greater sense of responsibility for floodplain management?
- * How do we balance the need to preserve vanishing natural values of floodplains with the pressures to develop them into fully urbanized areas?
- * How do we reduce flood damages when current methodologies don't adequately address local and regional flood hazards such as areas below unsafe dams, alluvial fans, meandering streams, rising lakes, mud slides, wetlands, ice jams, and so on? How can these areas be better managed?
- * How do we best mitigate existing flood damages?
- * What is the best way to tie floodplain management goals into other river or coastal management goals such as recreation, environmental protection, and economic development?
- * As stormwater flooding and substandard drainage increasingly become a more significant hazard in the country, what floodplain management tools can we apply to solve these problems?
- * How can we make the floodplain resident and property owner more aware of flood hazards?
Where do we find the resources to deal with these problems?

About the Conference

The technical conference will be held Wednesday, Thursday and Friday and will include a field trip in the Seattle area. The conference will feature one track of concurrent sessions dealing specifically with the western states' flood damage reduction problems. The ASFPM will conduct its committee and general membership meetings on Tuesday. All members and prospective members are invited to participate. A Puget Sound boat cruise including dinner is scheduled one evening. Optional field trips and spouse activities will be available.

Registration Rates

Registration prior to May 1, 1987 will be \$150 for members, \$165 for non-members, and \$65 for students and local government officials from Washington state.

Exhibit Space

Exhibit space will be made available for a fee to individuals or organizations who wish to display a product or service to attendees. Information on exhibit space can be acquired from Mark Riebau, Exhibits Coordinator at the address below.

About Seattle

Located on Puget Sound, Washington's treasured inland arm of the Pacific, Seattle has a lively port and is the Northwest's cultural and commercial center. Seattle's spring weather is mild and typical of the regional maritime climate. Visitors to Seattle are only a couple hours drive from any of Washington's three spectacular national parks: Mt. Rainier, Olympic Mountains and the North Cascades.

The conference will be held at the Stouffer Madison Hotel in downtown Seattle. Conference room rates are \$62 single, and \$74 double. The compact downtown area features an excellent aquarium and waterfront, the fascinating Pike Place Market, old Pioneer Square, and a number of superb restaurants. As well as providing exercise for pedestrians, Seattle's downtown hills offer fine views of the city, the Sound, and the mountains.

CONFERENCE DIRECTOR

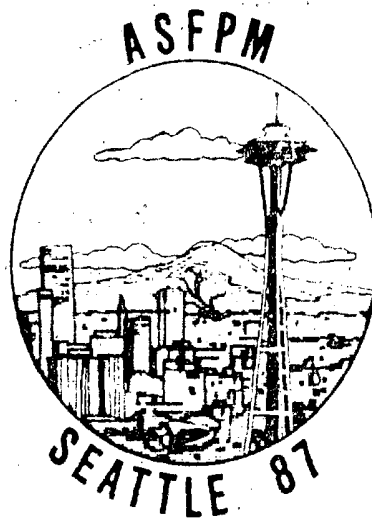
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Association of State Floodplain Managers
11th Annual Conference

Seattle, Washington
June 9 - 12, 1987

FLOODPLAINS '87: Realistic Approaches to Better Management

* * CONFERENCE DETAILS ON PAGE REVERSE * *

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