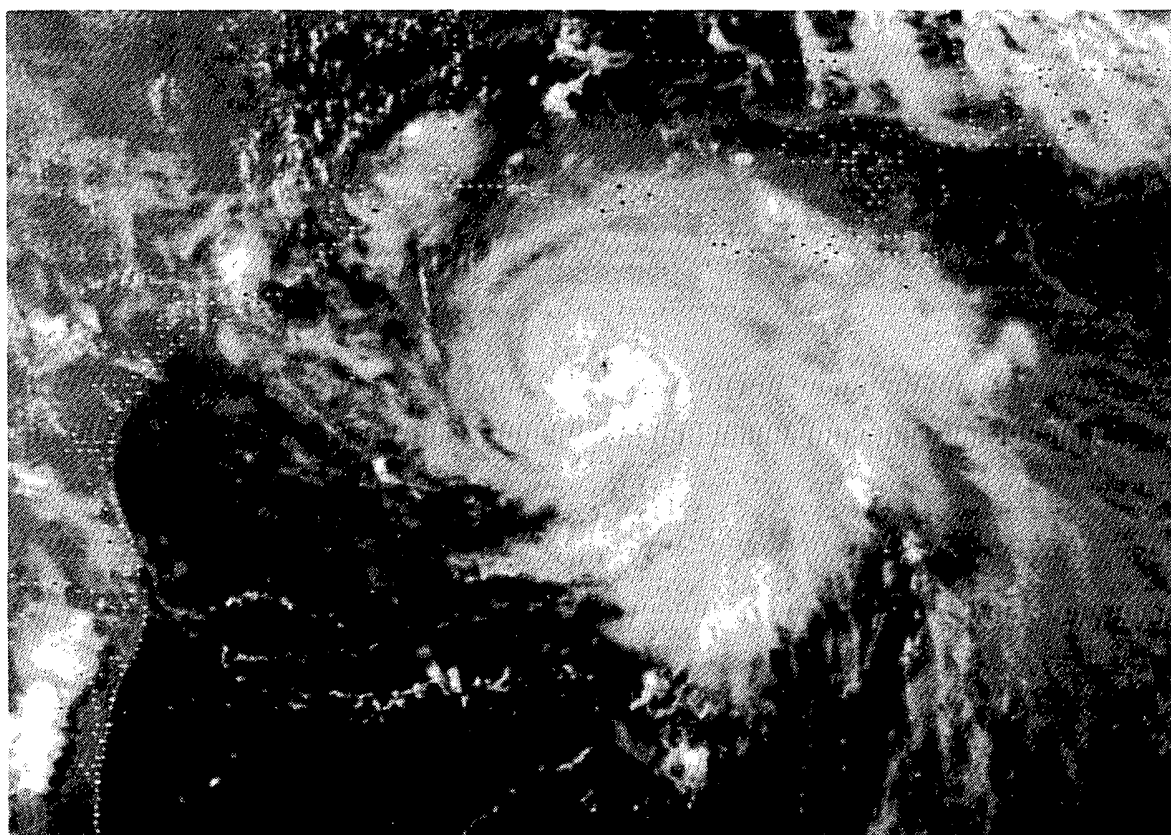


STORM DATA



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AND IS COMPILED FROM INFORMATION RECEIVED AT THE
NATIONAL CLIMATIC DATA CENTER, ASHEVILLE NORTH CAROLINA"
28801

Kenneth D. Walden

DIRECTOR
NATIONAL CLIMATIC DATA CENTER

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Marine Meteorology Program, Dr. Robert F. Abbey, Jr., Director.
Extensive data collection efforts are provided by the National Weather Service.

C O N T E N T S

Cover: A GOES 6 satellite, visible image taken at 2200GMT (1600CST) on June 25th shows Hurricane BONNIE, the first Atlantic basin hurricane of 1986, exhibiting a small clear eye just four hours after attaining hurricane status in the Gulf of Mexico. The hurricane made landfall in southeast Texas on the morning of June 26th, and was later responsible for flood-producing rains in the Arkansas-Louisiana-Texas area around Shreveport. (See HURRICANE BONNIE, pages 7 through 11; and HEAVY RAIN and FLOODING in the AR-LA-TX AREA, page 12.) ---Photo supplied by the National Hurricane Center, Miami, FL.

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STORM DATA (ISSN 0039-1972)

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

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

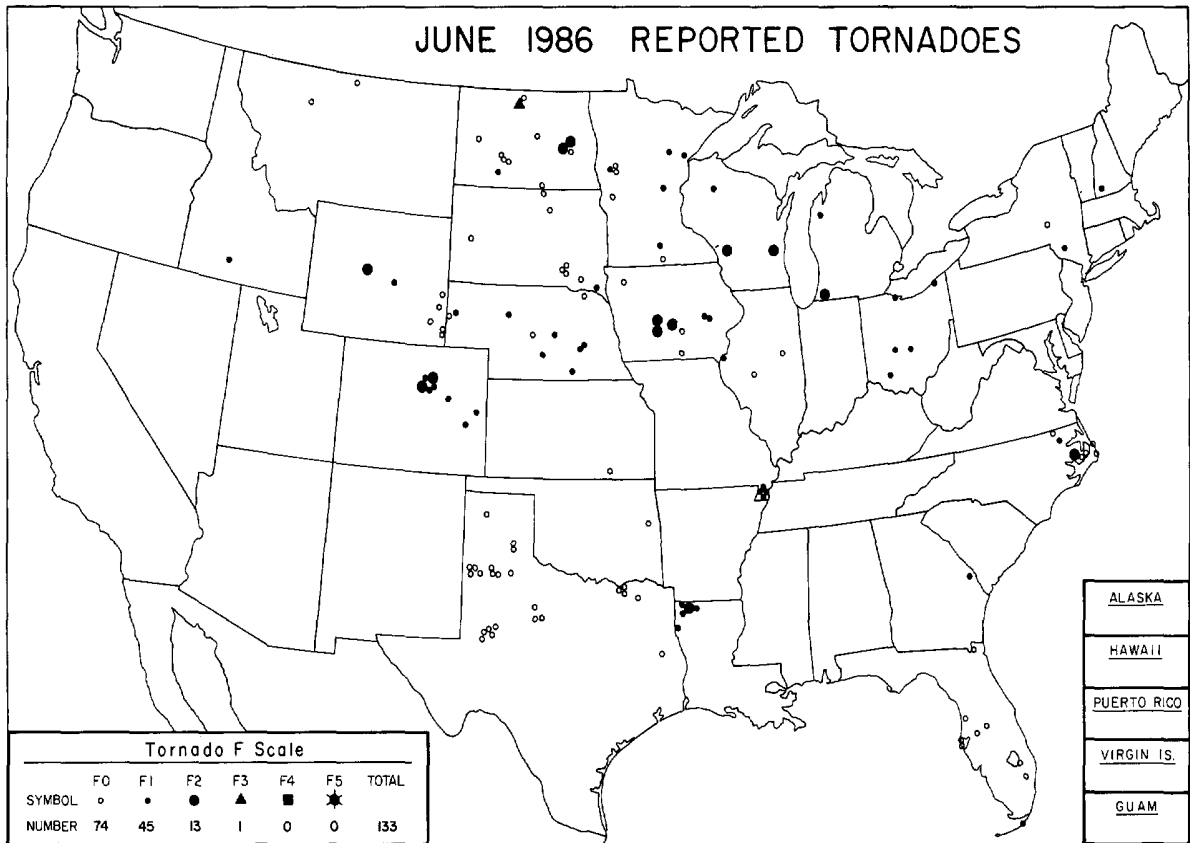
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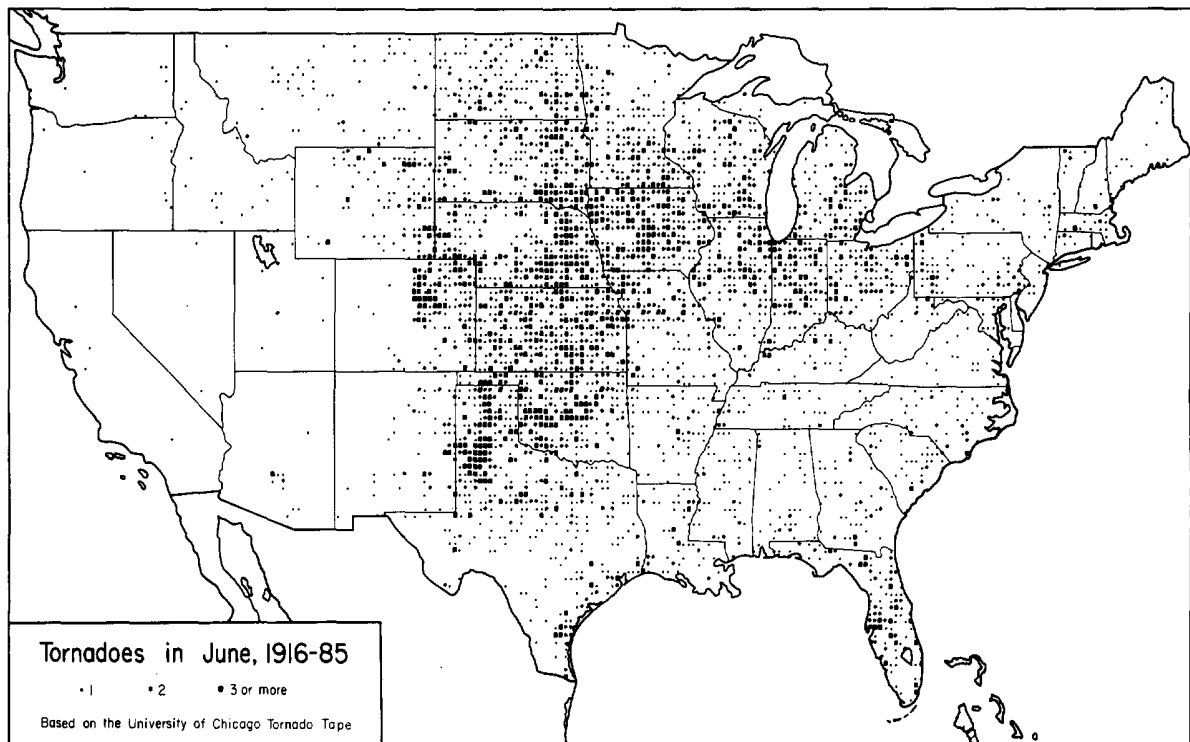
Subscription, pricing, and ordering information is available from:

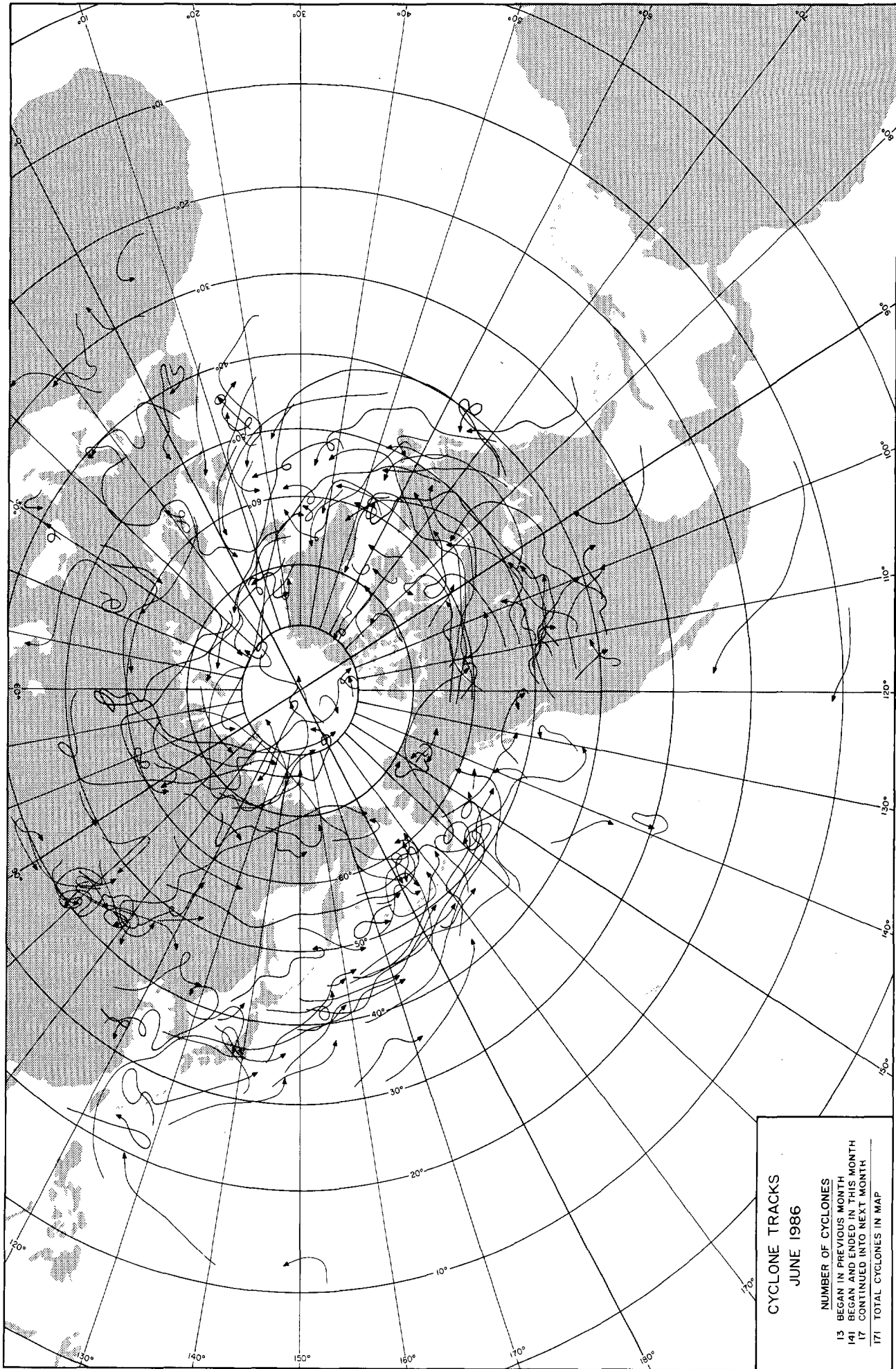
National Climatic Data Center
Federal Building
Asheville, NC 28801-2696

OUTSTANDING STORMS OF THE MONTH



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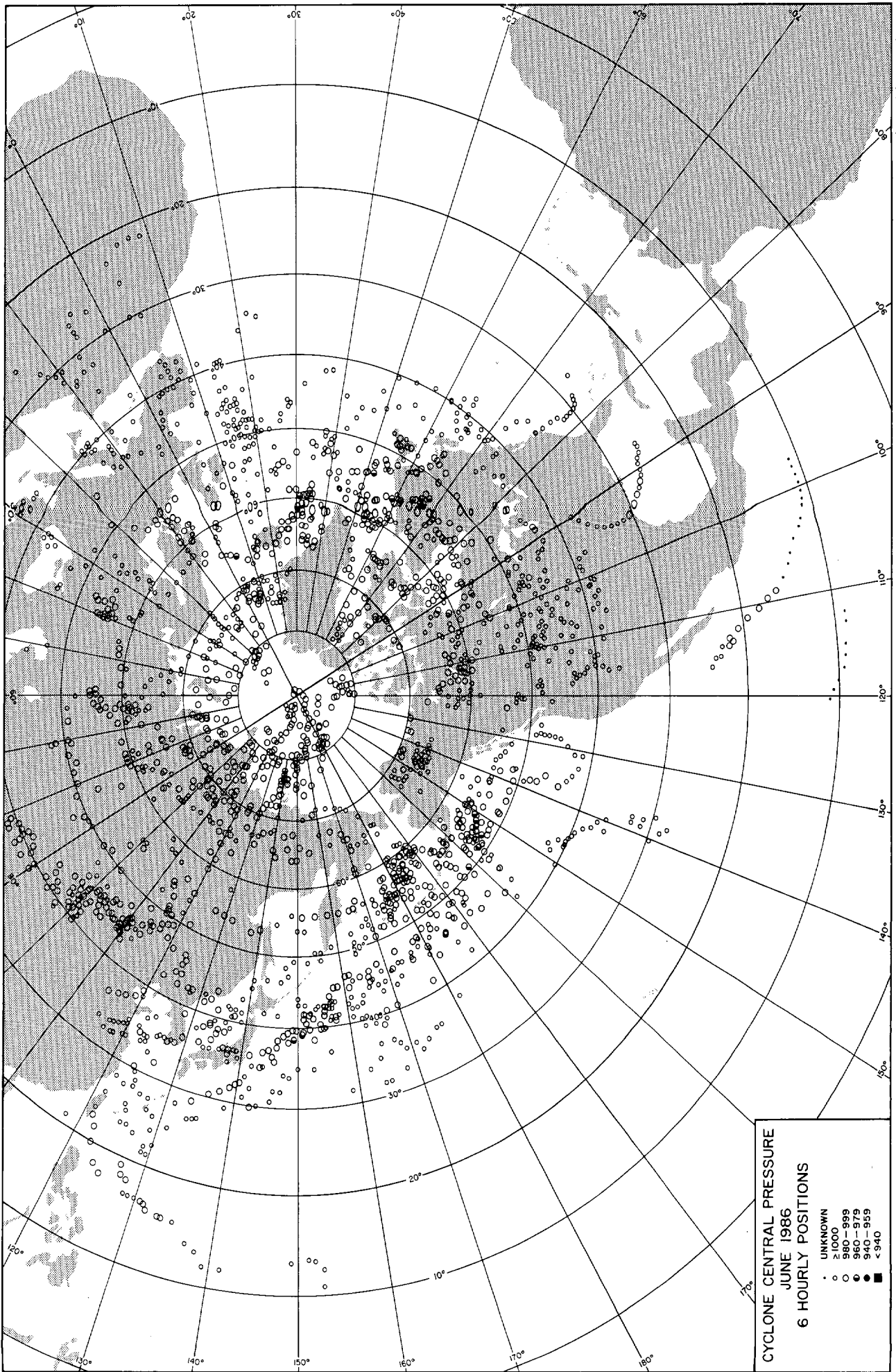




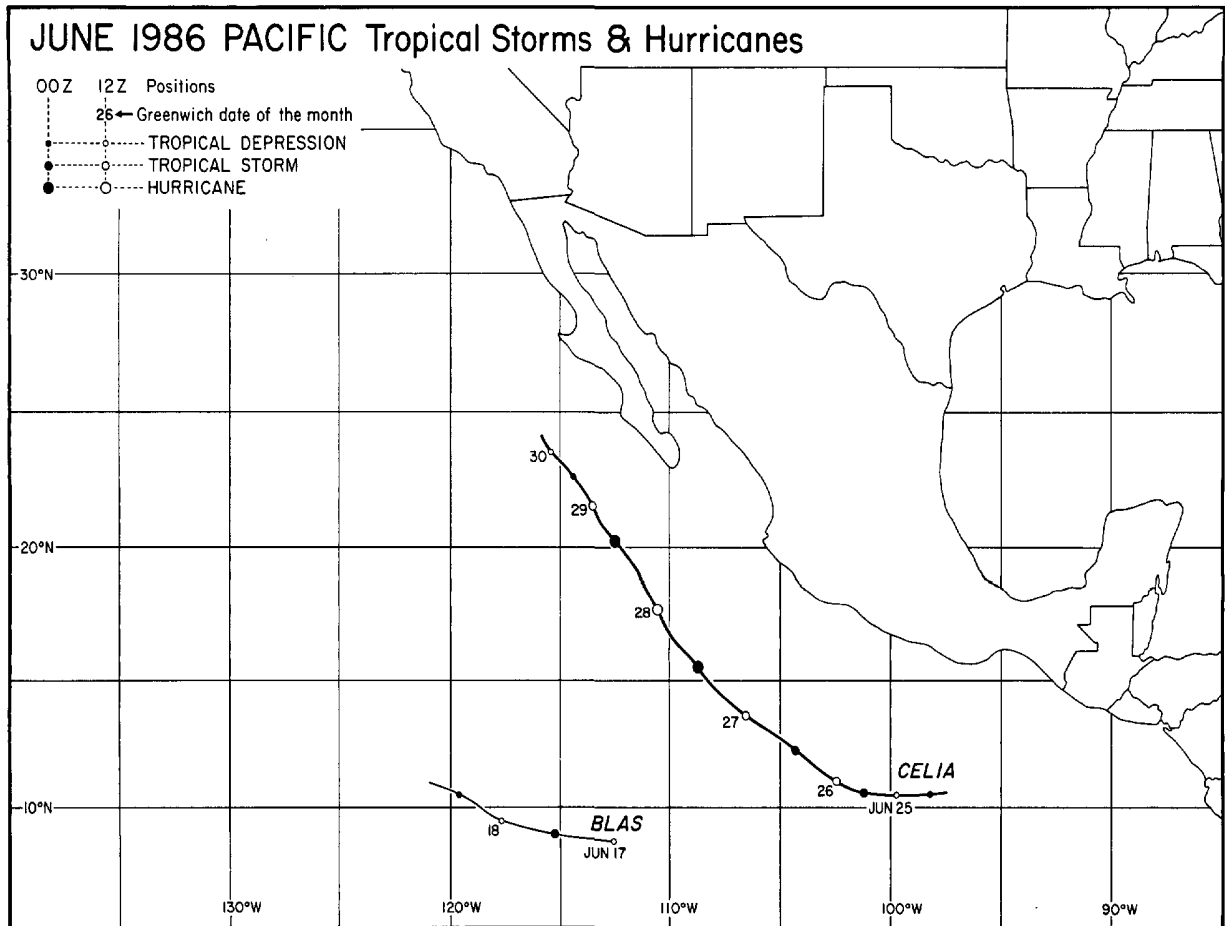
Mapped at The University of Chicago from NMC, 6-hourly surface maps

CYCLONE TRACKS
JUNE 1986

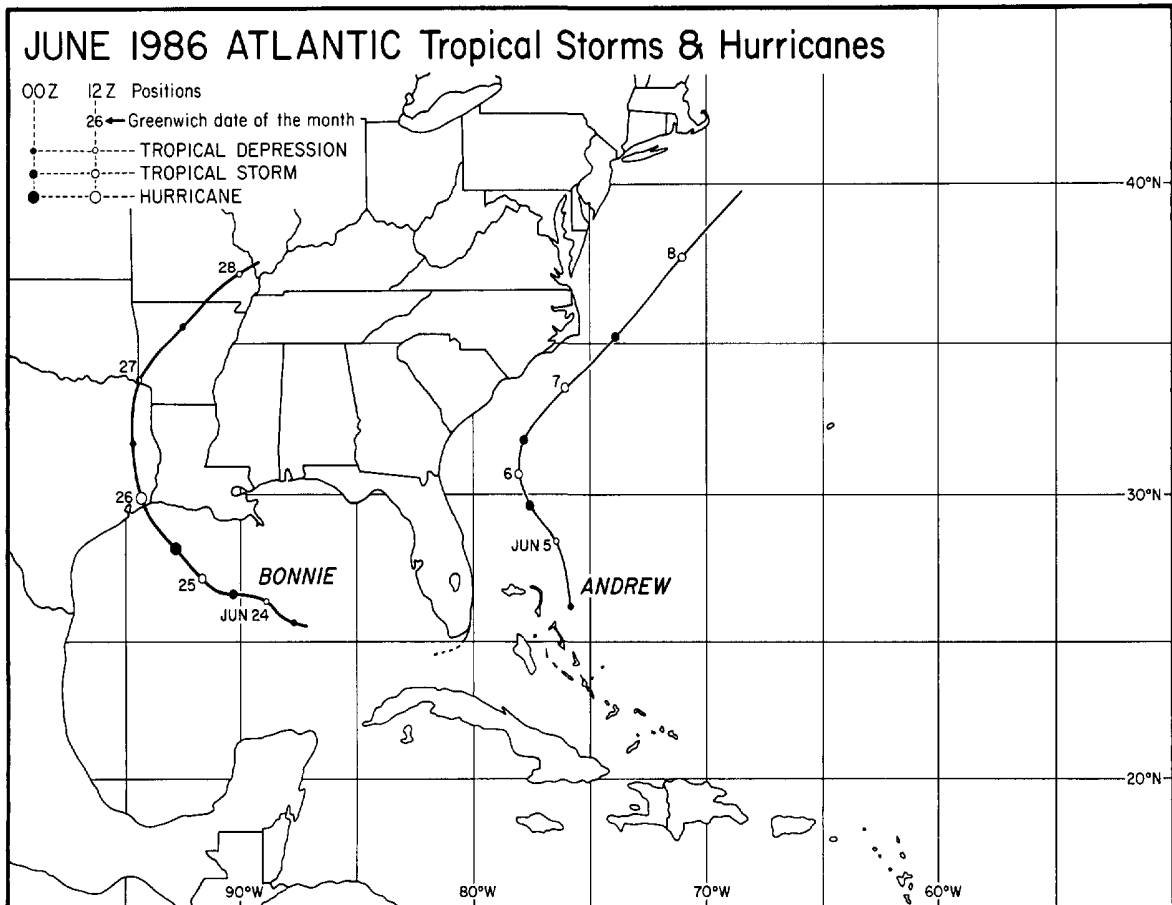
NUMBER OF CYCLONES	
13	BEGAN IN PREVIOUS MONTH
141	BEGAN AND ENDED IN THIS MONTH
17	CONTINUED INTO NEXT MONTH
171	TOTAL CYCLONES IN MAP



TROPICAL STORMS AND HURRICANES

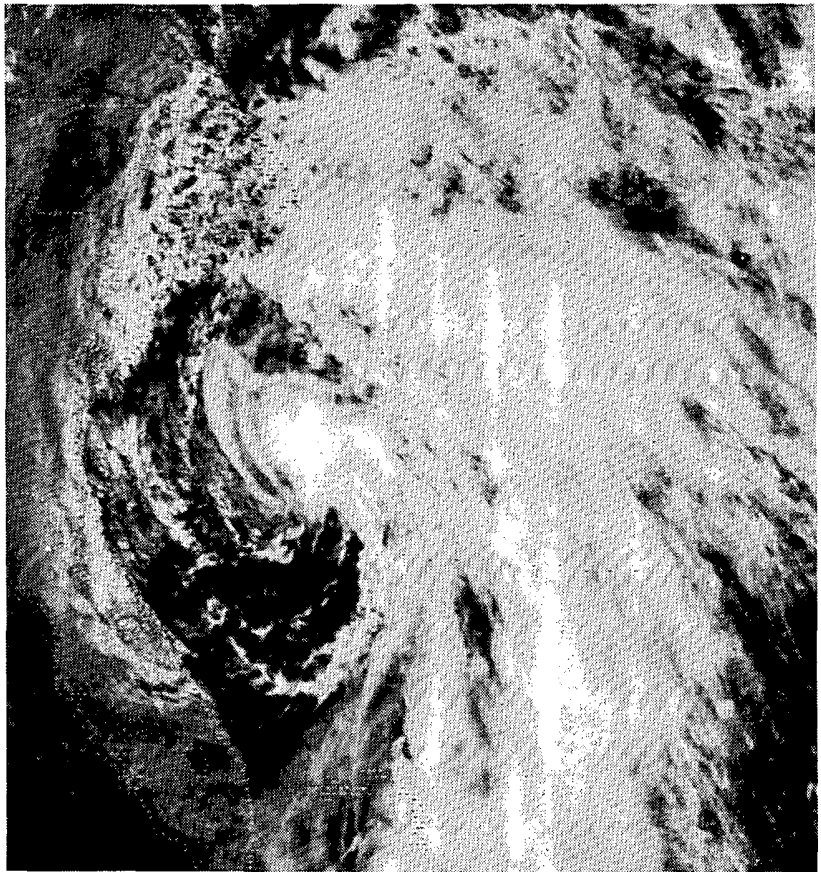
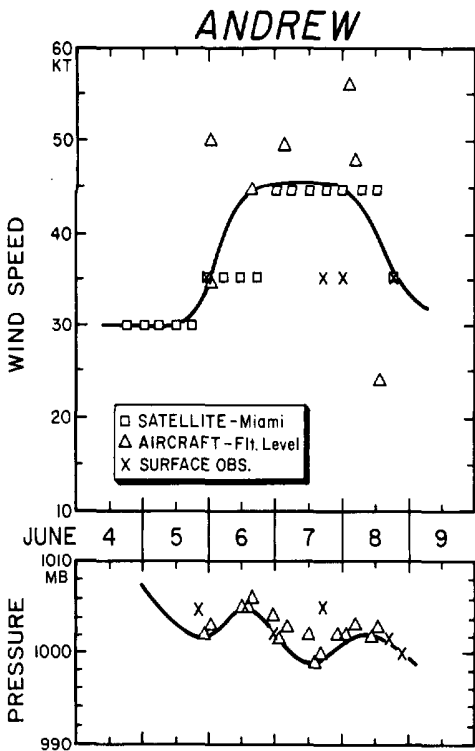


---Best track data from NWSFO, San Francisco, California.



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

TROPICAL STORMS AND HURRICANES ---- continued

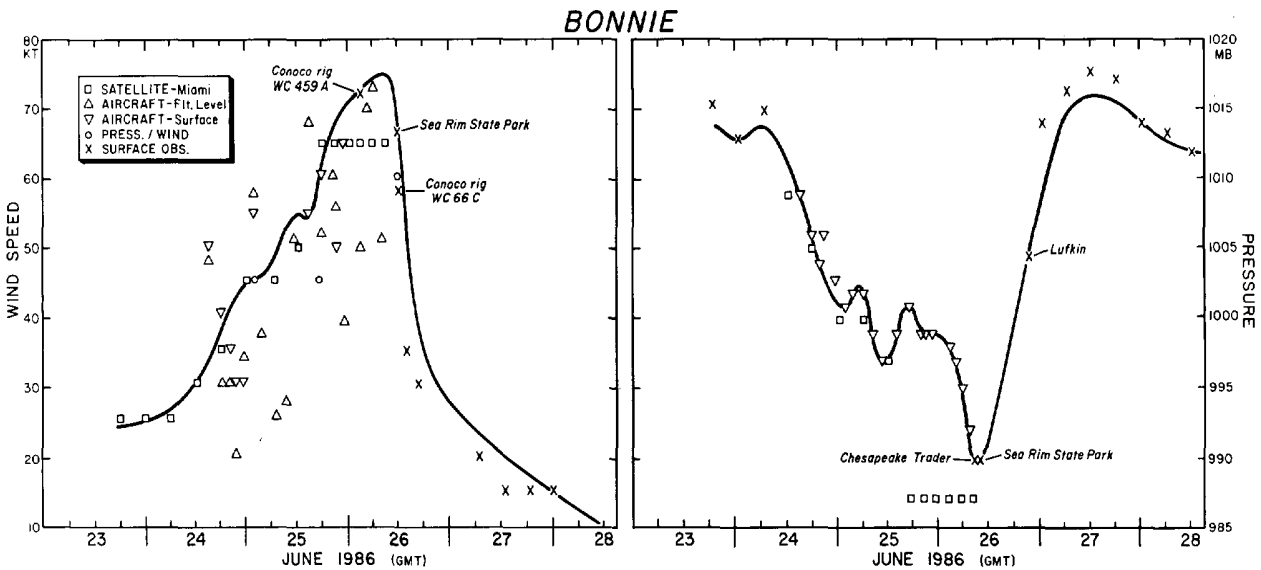


GOES 6 satellite, visible image of T.S. ANDREW at 1601GMT (1101EST), June 6, 1986. ---Satellite photo and data plots provided by NHC, Miami, Florida.

Plots of Tropical Storm ANDREW's maximum wind speed and minimum surface pressure versus time (GMT), determined from satellite, aircraft, and surface observations.

1. HURRICANE BONNIE, June 23-28, 1986

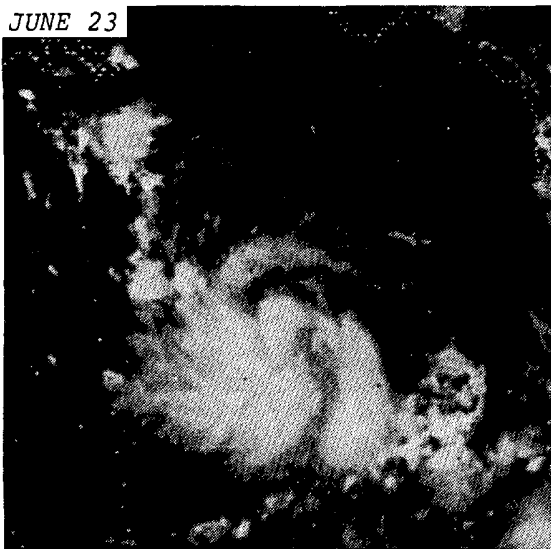
BONNIE, the second Atlantic tropical cyclone of June 1986, was the eleventh hurricane of this century to make landfall on the U.S. Coast during June. Shortly after its organization from an upper level vortex and surface front remnants, BONNIE was classified a tropical depression at 1800GMT on June 23rd. Moving northwest from the central Gulf of Mexico (see map on previous page), BONNIE intensified and attained hurricane status at 1800GMT, June 25th, 16 hours prior to landfall in southeast Texas.



Plots of Hurricane BONNIE's best-track maximum wind speed and minimum surface pressure versus time (GMT), determined from satellite, aircraft, and surface observations. ---Plots from NHC.

HURRICANE BONNIE ---- continued

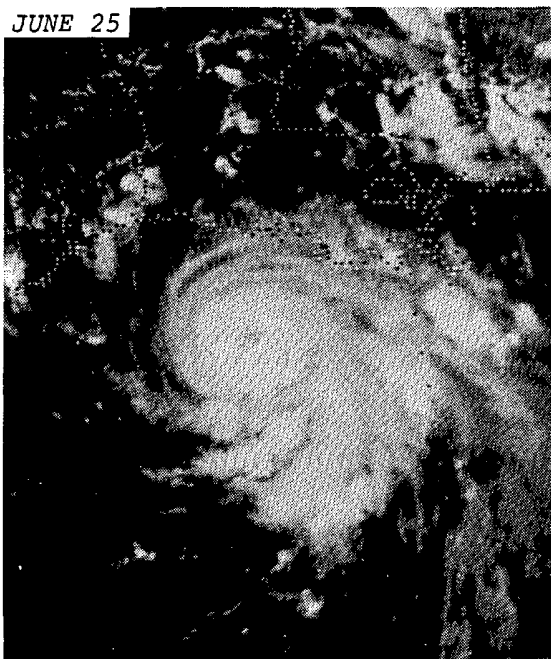
JUNE 23



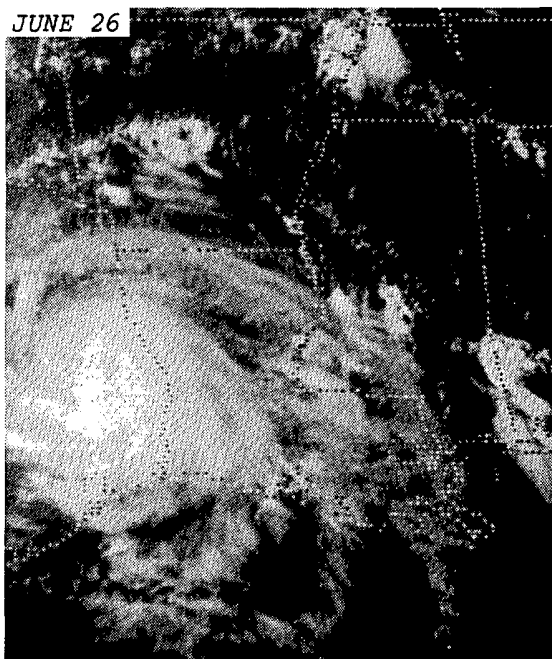
JUNE 24*



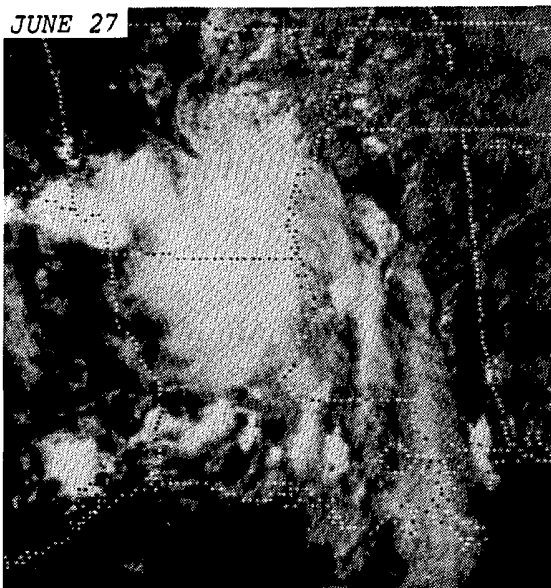
JUNE 25



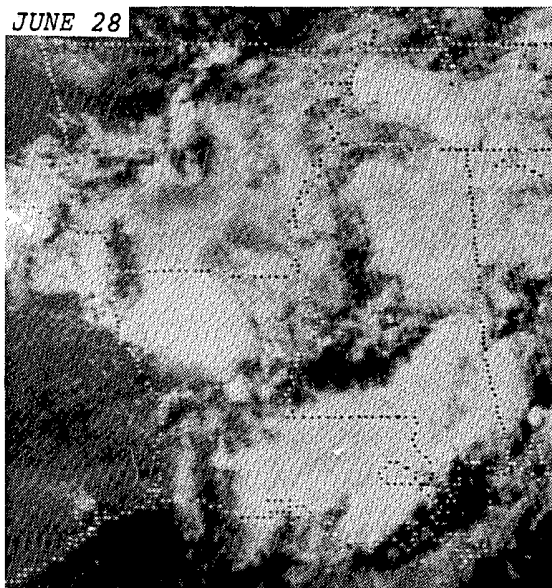
JUNE 26



JUNE 27

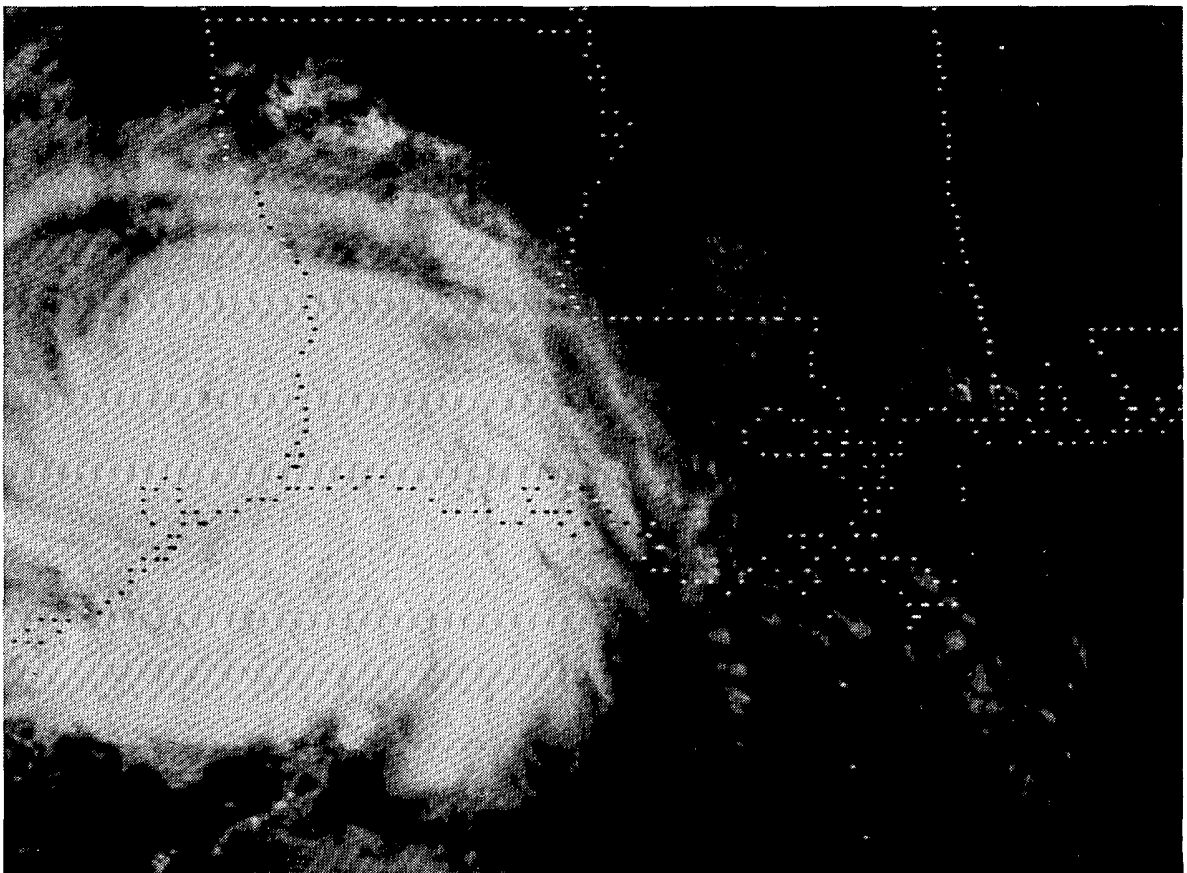
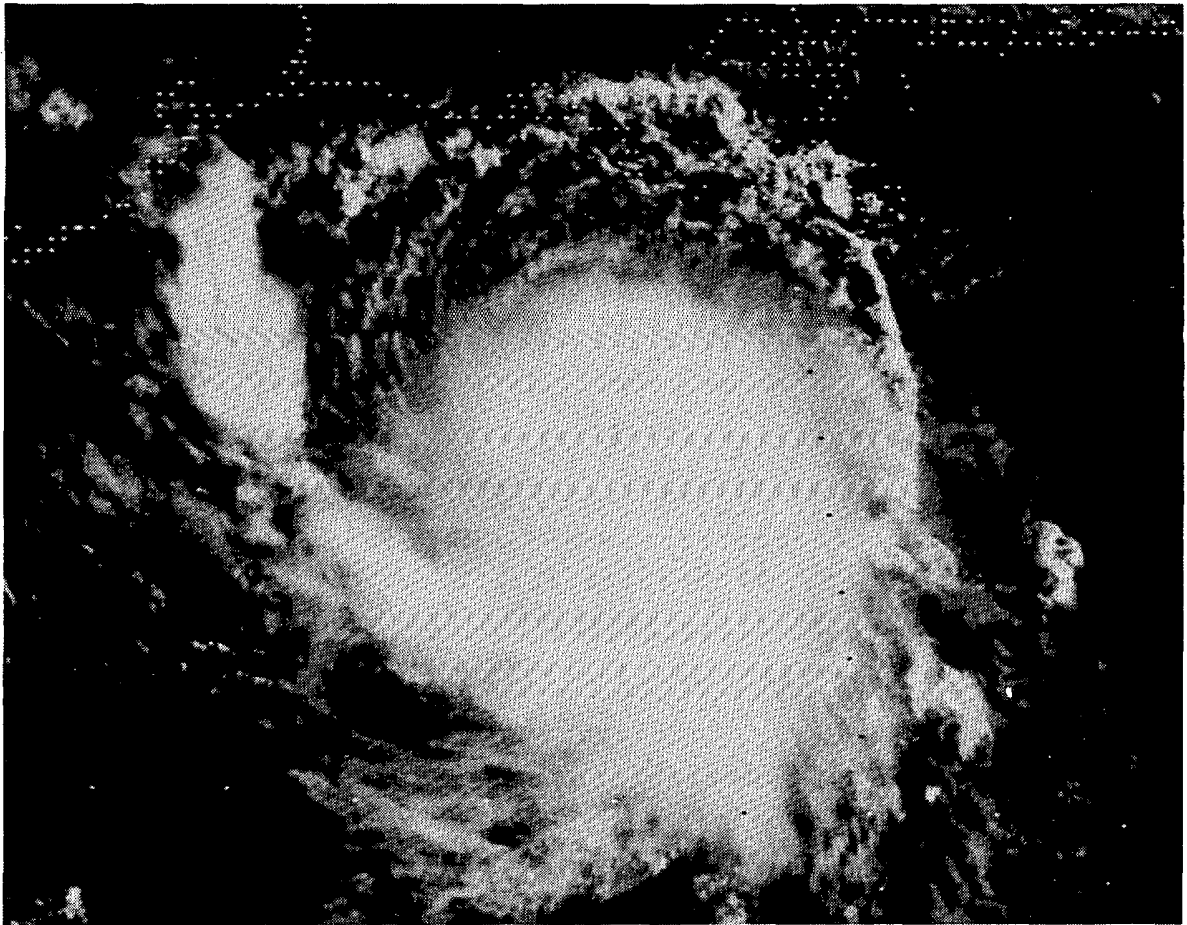


JUNE 28



GOES 6 satellite, visible images of BONNIE from its depression stage (June 23), through hurricane stage and landfall, to dissipation (June 28). All photo times are 2130GMT, except * (2030GMT). ---All photos from NESDIS.

HURRICANE BONNIE ---- continued

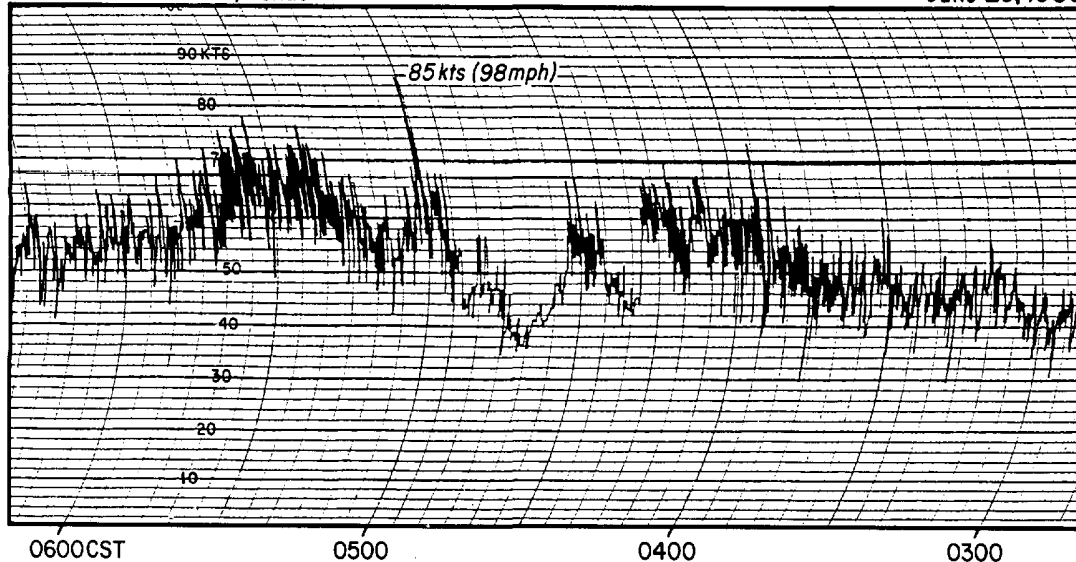


Enlargements of GOES 6 satellite, visible images taken at 1430GMT show BONNIE as its outer bands first skimmed the Louisiana Coast on June 25th (top) and about 4-1/2 hours after landfall on June 26th (bottom). ---Photos from NESDIS.

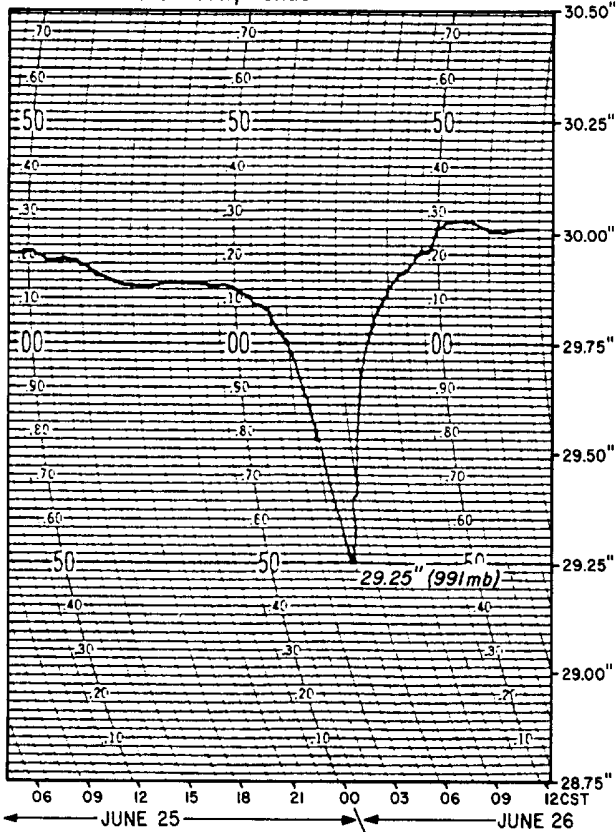
HURRICANE BONNIE ---- continued

Sea Rim State Park, Texas

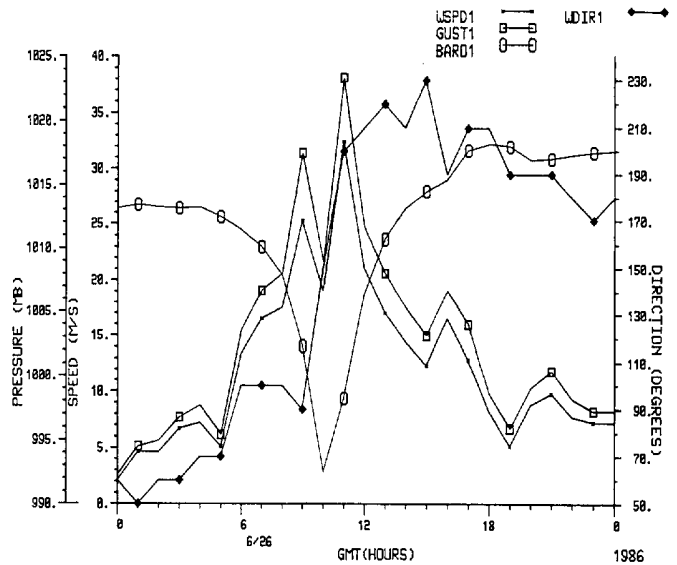
June 26, 1986



Sea Rim State Park, Texas



COUNTERCLOCKWISE FROM ABOVE: A gust recorder trace with an 85 kt peak gust, barograph trace with a 991 mb minimum pressure, and plot of meteorological conditions from the Coastal-Marine Automated Network (C-MAN) station, all from Sea Rim State Park, Texas. BONNIE's eye came ashore just southwest of the park. Chart axes were adjusted to account for errors where applicable. ---All charts from NHC.



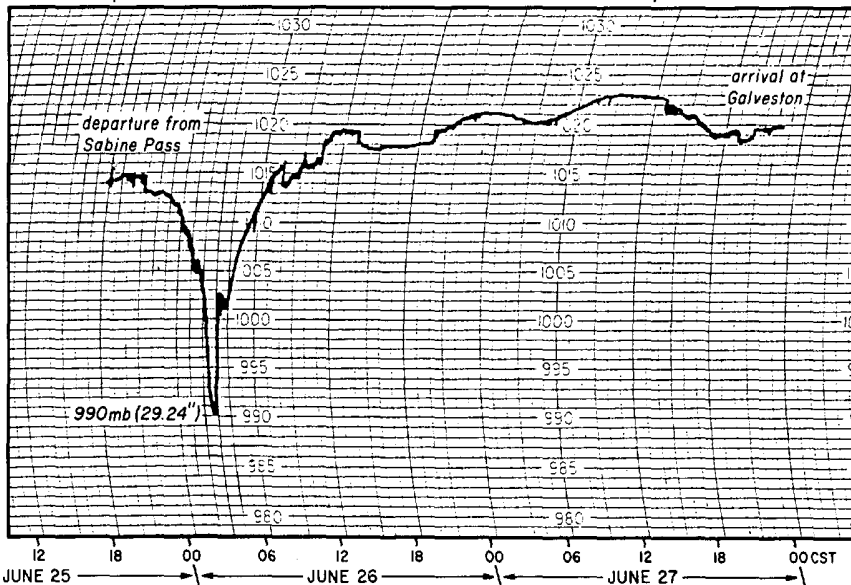
<u>Location</u>	<u>Amount</u>	<u>Evacuations</u>	<u>Source</u>
Galvestion County	\$30,000		WSO Houston
Galvestion Island		5,000	"
Bolivar Peninsula		5,000	"
Brazoria County		4,000	"
Chambers County	\$1,000,000	500	"
Harris County		500	"
Matagorda County		200	"
Cameron Parish	\$400,000	7,000	WSO Lake Charles

Damage and evacuation estimates for the counties of Texas and parishes of Louisiana that were affected by BONNIE's landfall. ---Provided by NHC.

HURRICANE BONNIE ---- continued

RIGHT: A barograph trace showing a 990 mb minimum pressure that was registered as the ship Chesapeake Trader passed through BONNIE's eye. At the time, the ship was positioned 15 nm off the Texas Coast at 29.45°N, 94.00°W while enroute from Sabine Pass to Galveston. ---Chart provided by NHC.

MT Chesapeake Trader en route from Sabine Pass to Galveston, Texas



BELOW: Table of meteorological statistics associated with BONNIE's landfall. ---Table provided by NHC.

LOCATION	LOWEST PRESSURE		WIND			TIDE		RAINFALL				
	(MB)	DATE/TIME(Z)	HIGHEST SUSTAINED	PEAK GUST	HT ABOVE NORMAL	1HR	6HR	12HR	24HR	STORM		
			KT	KT	(FT)	(IN)	(IN)	(IN)	(IN)	(IN)		
WSO Galveston, TX	1011.1	26/0910	NW/24	26/0930	NW/30					0.38		
WSO Houston (Alvin), TX			SSW/16	26/2007	SSW/21					0.62		
IAH, TX	1012.7	26/0852	SE/20	25/2252	SE/28					0.15		
Hobby, TX	1012.4	26/0848	SSW/18	26/2048	SSW/25					0.04		
High Island, TX					75(est)					6.36		
Winnie, TX					55(est)							
Anahuac, TX					35(est)							
Galveston Island, TX						2.2	25/2300					
Bolivar Peninsula, TX						3-4						
Ace, TX										13.0		
10S Livingston Dam, TX										11.5		
Goodrich, TX										9.0		
Eastern Chambers County, TX										4-6		
Vidor, TX										8.0		
Port Arthur, TX	1004.5	26/1242	SE/48	26/1254	SE/66	26/1246		1.05	2.95	4.82	4.87	
Sea Rim State Park, TX	990.5	26/1000	SSW/67		SSW/85	26/1100						
Sabine Pass, TX	1005.1	26/1000	ESE/55				5.2	26/1145				
NW Sabine Lake, TX	1010.0	26/1146	35		55	26/1146						
Lake Charles, LA	1013.6	26/0758	SE/22	26/1237	SE/36	26/1102		0.15	0.40	0.48	0.49	
Cameron, LA	1012.9	26/0900	S/47	26/1138	S/54	26/1025						
Calcasieu Pass							2-3					
New Orleans (MSY), LA	1015.4	25/0654	SSE/19	25/1521	SSE/28	25/1536					0.30	
New Orleans (NEW), LA	1015.0	25/0650	E/12	25/1352	E/17	25/1550						
Bayou Bienvenue, LA							2.4 MSL	25/2301				
Paris Rd, LA							2.7 MSL	25/2300				
Rigolets, LA							1.7 MSL	25/2201				
Industrial Canal, LA							1.6 MSL	25/2201				

2. STRONG WINDS at IDAHO FALLS, IDAHO on June 25, 1986

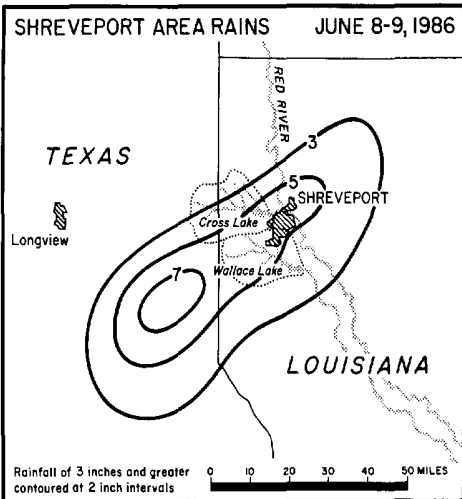
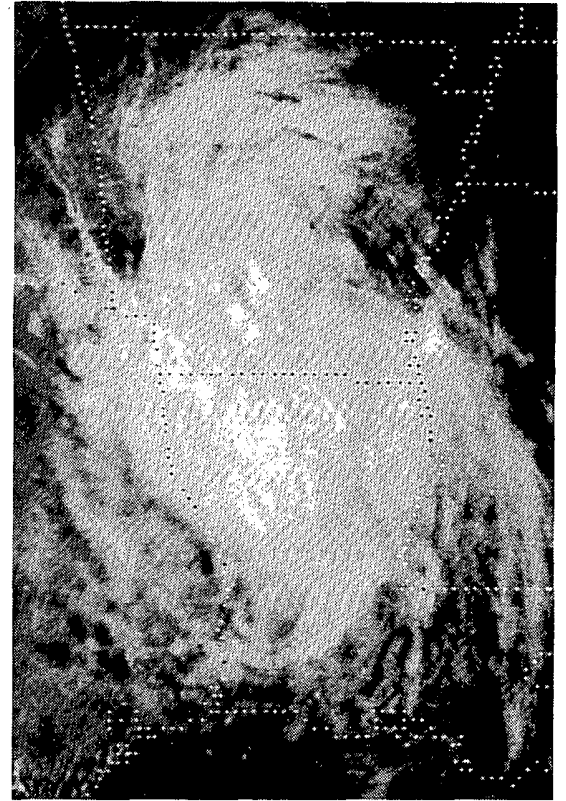
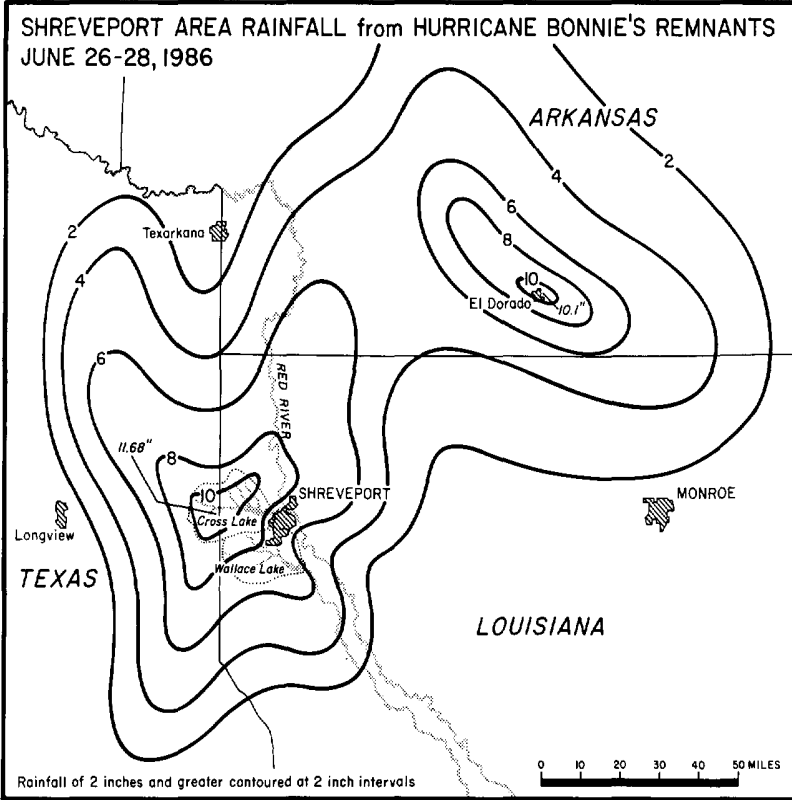
In the afternoon of June 25th, strong winds whipped into the Idaho Falls, Idaho area from the Snake River Desert to the west-southwest, creating blowing dust that reduced visibility to zero for several minutes at many locations. The short-lived winds, with measured gusts up to 48 mph, are believed to have been associated with a large scale, horizontal-axis vortex.



Blowing dust in northern Idaho Falls at 1640MST, June 25th. The view is northeast. ---Photo by Dave Miller, KIFI-TV, Idaho Falls, ID.

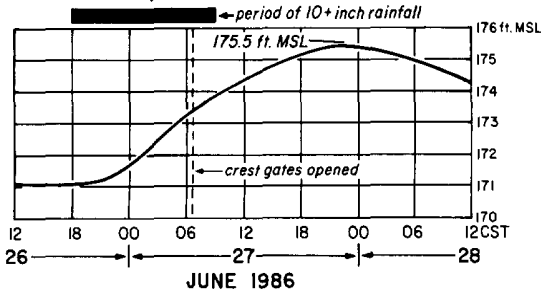
3. HEAVY RAIN and FLOODING in the AR-LA-TX AREA, June 8-9 & 26-28, 1986

Heavy rain twice struck the Arkansas-Louisiana-Texas area around Shreveport during June. The first event, an overnight deluge on June 8th and 9th, set off flash flooding that caused over \$5 million in damage in Louisiana alone and saturated the ground for the second event, a downpour emanating from dissipating BONNIE on June 26th to 28th that caused about \$10 million worth of flood damage in Louisiana. The watersheds of Cross and Wallace Lakes near Shreveport were the most affected, and the lakes consequently rose to their highest levels of record, 175.5 ft. and 153.7 ft. respectively.

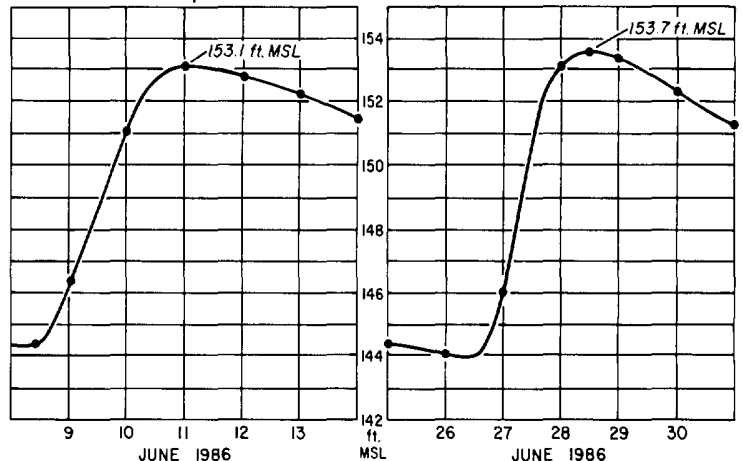


COUNTERCLOCKWISE FROM ABOVE: A GOES 6 satellite, visible image of BONNIE in depression stage at 1431GMT (0831CST) on June 27th, taken as Shreveport's heaviest rains were ending; a map of the area's total rainfall associated with BONNIE's remnants; a map of the rainfall from the first event on June 8th and 9th; and two graphs indicating the changes in level of Cross and Wallace Lakes during the heavy rain episodes. ---Maps and graphs provided by Ernest S. Ethridge, NWSO, Shreveport, Louisiana; satellite photo from NESDIS.

CROSS LAKE, LOUISIANA POOL ELEVATION



WALLACE LAKE, LOUISIANA POOL ELEVATIONS



4. FLASH FLOOD at SAN ANTONIO, TEXAS on June 2, 1986

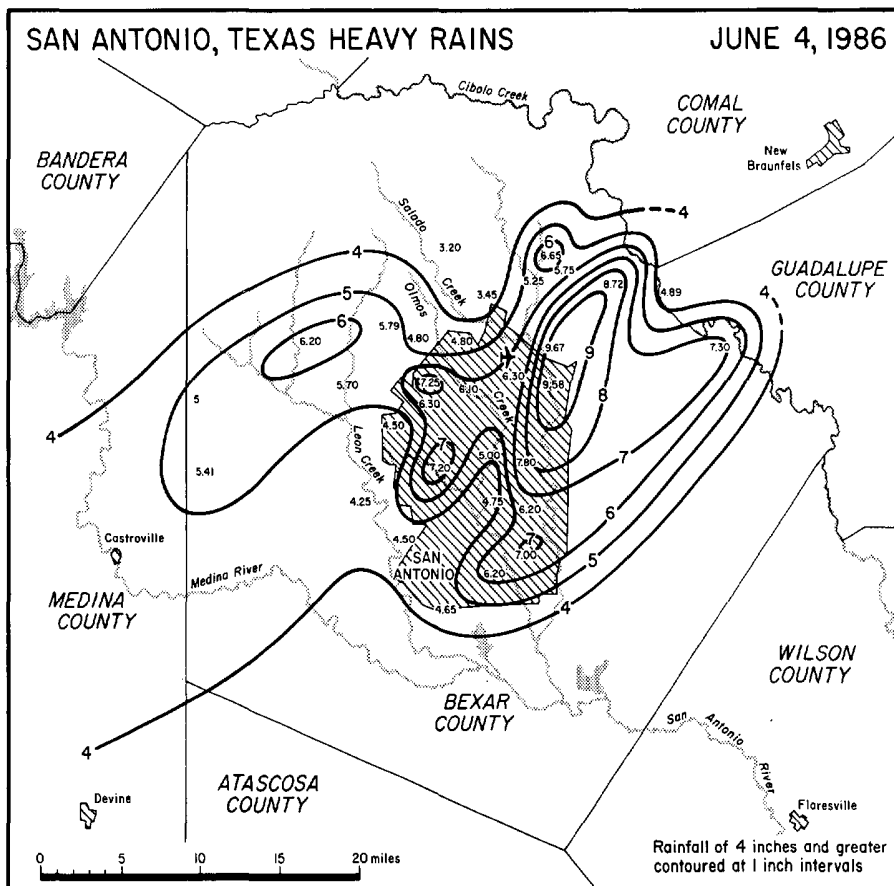
In the early evening of June 2nd, up to 2 inches of rain fell over the north and northwest sides of San Antonio, Texas, resulting in the flash flooding of numerous low water crossings. Although a minor event, it resulted in a flood-related death. RIGHT: A man and his car became engulfed by floodwaters at a low water crossing after the man had attempted to drive through the swift-flowing waters which were already 2 feet deep over the bridge. Just as firemen were attempting to rescue the man via the extended ladder of a fire truck, the rising water flipped the car over, resulting in the man's death.



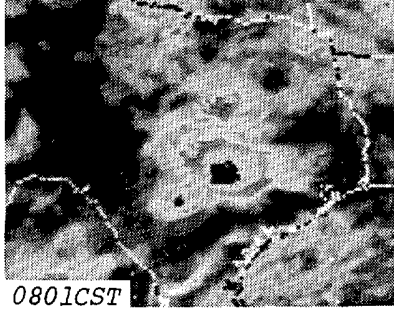
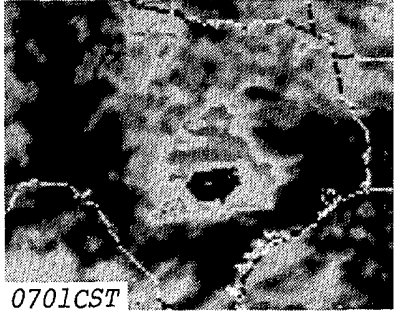
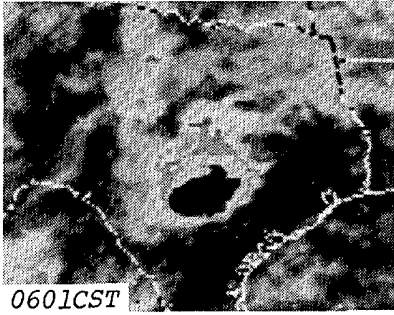
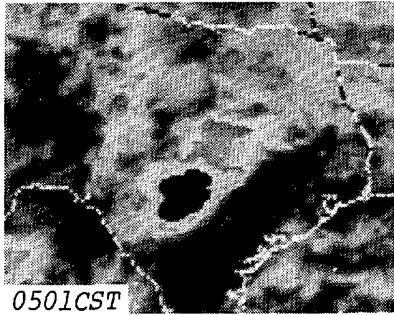
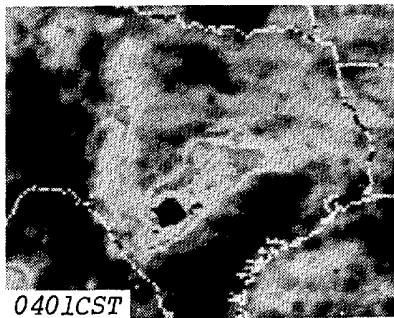
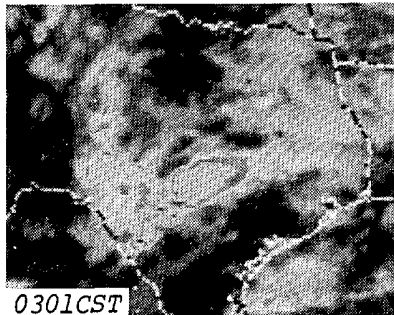
---Photo by Philip Barr, San Antonio Express-News; provided by the San Antonio NWSFO.

5. HEAVY RAIN and FLOODING at SAN ANTONIO, TEXAS on June 4, 1986

Only 2 days after previous flash flooding, San Antonio, Texas experienced much heavier rains during the morning of June 4th. A record 24-hour rainfall of 6.5 inches at the San Antonio NWSFO, along with amounts that neared 10 inches at other locations, resulted in widespread flash flooding, and subsequent river flooding that lasted for several days along the Medina and San Antonio Rivers. The rains, analyzed only for San Antonio and Bexar County below, also amounted to as much as 11.5 inches in counties immediately southwest of Bexar County. Luckily, no deaths resulted from the episode, although numerous rescues were necessary. ---Map from San Antonio, TX NWSFO.



HEAVY RAIN and FLOODING at SAN ANTONIO, TEXAS ---- continued



LEFT: Hourly, GOES 6 satellite, infrared images reveal the changing cloud-top thermal structure of the small-but-intense thunderstorm cluster over the San Antonio area on June 4th. ---Photos from NESDIS.



A stalled car sits temporarily abandoned in a flooded underpass along the downtown section of Interstate 35 in San Antonio. With rain still falling, several drivers on the median in the background waited patiently for the water to recede before continuing on or attempting to retrieve their engulfed vehicles. ---Photo by Mike Davis, The San Antonio Light.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 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	
1 ALABAMA									
Lineville area, Clay County	07	1000CST			0	0	?	?	Lightning
A home was damaged by a fire that was reported to have resulted from a lightning strike. The lightning was reported to have struck nearby, and the charge followed a gas supply line to the home.									
Barfield area, Clay County	07	1545CST			0	0	4	0	Thunderstorm/Wind
Thunderstorm winds damaged 3 mobile homes, one of which was tied down. Marble size hail was reported with the storm.									
Muscle Shoals, Colbert County	08	1809CST			0	0	?	?	Thunderstorm/Wind
Winds gusted to 58 mph at the Muscle Shoals Airport.									
French Mill, SE Limestone County	17	1400CST			0	0	3	0	Thunderstorm/Wind
Thunderstorm winds uprooted two trees and damaged some farm buildings. One witness to the storm reported that the winds blew him down.									
SW Dothan, Houston County	18	1515CST			0	0	4	0	Thunderstorm/Wind
Apparent downburst winds reported to have only lasted about seconds caused minor roof damage to about 25 houses. Several metal outbuildings were damaged and tree limbs were torn off. Pea-sized hail accompanied the storm.									
7NNW Mobile Airport, Mobile County	19	1415CST			0	0	4	3	Thunderstorm/Wind
Apparent downburst winds from an intense thunderstorm caused severe damage to a nursery complex. Four greenhouses and their contents were reported to have been totally destroyed. Two-by-four timbers were reported to have been driven through wooden walls of a workshop. Some trees and powerlines were down in the area. Hail to golf ball size was reported to have occurred for about 15 minutes with the storm.									
	19	1415CST			0	0	3	3	Hail (1.75)
Hail to 3/4 inch in diameter was reported 6 SE Bates Field at 1810CST, and hail to ping pong ball size was reported 3S of Bates Field at 1820CST.									
Foley area, Baldwin County	21	1620CST			0	0	?	?	Thunderstorm/Wind
Thunderstorm winds downed some powerline poles and blew a vehicle off the road.									
Mobile area, Mobile County	21	1810CST			0	0	?	?	Hail (0.75)
Hail to 3/4 inch in diameter was reported 6 SE Bates Field at 1810CST, and hail to ping pong ball size was reported 3S of Bates Field at 1820CST.									
	21	1820CST			0	0	?	?	Hail (1.75)
Oxford area, Calhoun County	23	1715CST			0	0	4	0	Thunderstorm/Wind
Downburst winds from an intense thunderstorm unroofed a mobile home. The roof was blown some 75 yards, and this was the only unit in a row of homes that was damaged. The south wall of a metal-clad building located 1/4 mile east of the mobile home was blown out. This building was open on the north end.									
Gullman area, Gullman County	24	1230CST			0	0	?	?	Thunderstorm/Wind
Thunderstorm winds downed a few trees.									
Birmingham area, Jefferson County	24	1302CST			0	0	?	?	Thunderstorm/Wind
Thunderstorm winds gusted to 60 mph at the NWS office on Okmoo Road. A few trees were reported down in the area.									
Walker County	24	1320CST			0	0	?	?	Thunderstorm/Wind
Thunderstorm winds downed some trees in the Sleepy Hollow area of NE Walker County, around 1320CST, and north of Jasper, around 1405CST.									
	24	1405CST			0	0	?	?	Thunderstorm/Wind
NE Birmingham, Jefferson County	26	1500CST			0	0	4	0	Thunderstorm/Wind
Thunderstorm winds downed several trees, and one car was damaged by a falling tree. Falling trees also downed some powerlines, and more than 6 thousand customers were reported as being without electric power for a few hours following the storm.									
Calera area, Shelby County	26	1530CST			0	0	?	?	Thunderstorm/Wind
Several large trees were reported to have been uprooted by thunderstorm winds.									
Brent area, SW Bibb County	26	1649CST			0	0	?	0	Thunderstorm/Wind
Thunderstorm winds gusted to 65 mph at the NWS Meteorological Observatory in SW Bibb County. A side door was blown off a building at the facility. Hail to 1/2 inch in diameter was reported in the area at 1702CST.									
5N Nedowee, Randolph County	28	1256CST			0	0	?	0	Thunderstorm/Wind
Damage from thunderstorm winds at a marina included a boat storage building destroyed and two other buildings damaged. A boat was overturned.									
2 ARIZONA									
Maricopa County	01	1700 MST			0	0	4	0	Thunderstorm wind (50 knots)
Thunderstorms developed north of Phoenix and moved southward about 25 mph. Several power outages in the metropolitan area resulted as downburst winds were strongest in the north portions. Deer Valley airport clocked one gust to 58 mph. Minor roof damage was reported in Glendale.									
Gila County	23	1700 MST			0	0	4	0	Thunderstorm wind (55 knots)
Damage to a large hangar and 3 aircraft at the San Carlos airport was reported. A pilot in the area 23 miles east of San Carlos reported a funnel cloud associated with very large thunderstorms.									
Maricopa County	25	1900 MST			0	1	5	0	Thunderstorm wind (60 knots)
Up to 20 power poles and several 65 kv lines were downed by very strong downburst winds. 6 cars in south Mesa were hit by poles or lines; only one minor injury was reported. A peak gust of 70 mph from the northeast was recorded at Falcon Field where 3 small planes sustained damage. Several homes in Mesa had roof damage, and lightning caused 3 palm trees to catch on fire in Scottsdale.									
3 ARKANSAS									
Fulton County	02	1400 CST			0	0	-	-	Flash Flooding
The cooperative observer at Mammoth Spring recorded 3.30 inches of rain from 2:15 - 3:30 PM CST. Water ponded along a stretch of Main Street and flooded some stores downtown.									
Union County	04	1845 CST			0	0	-	-	Flash Flooding
An El Dorado radio station reported street flooding in that city.									
Scott County	05	0530 CST			0	0	-	-	Flash Flooding
A 5-inch rainfall in Waldron produced flash flooding. Some county roads became impassable because of overflowing creeks. A car with 2 occupants was washed away into a creek in Waldron, without injuries. Several intersections in the city were flooded.									
Garland County	06	1915 CST			0	0	-	-	Flash Flooding
Streets and low bridges were flooded in Hot Springs from 1.80 inches of rain in one hour. Forty-five mile-an-hour wind gusts accompanied the heavy rain. Some bridges were washed out in the county. Several cars stalled in the high waters in Hot Springs.									
Perry and Yell Counties	06	2135 CST			0	0	3	-	Flash Flooding
Minor damages over the southern part of the county were the result of a 6-inch rainfall. The cooperative observer reported 5.90 inches of rainfall at 2100 CST, with a total of 6.02 the following morning. The bulk of the rain came during a 2 1/2 hour period. Gravel had to be replaced along some of the county roads. Several roads were flooded by the Fourche La Pave River as it left its banks in Perry County.									
Conway County	07	2100 CST			0	0	?	-	Flash Flooding
Heavy rainfall flooded streets in Morrilton and halted traffic for about 2 hours. Lightning struck a home, killing a dog. The bolt opened a large hole on the collie and blew the pads off its feet. Lightning threw the woman of the house against a wall as she took a shower. It melted a telephone and the bottom portion of a freezer. It burnt out an electric range and a television set, and destroyed other appliances. The strike blew a hole on the front porch, where the dog had been, and opened 3 other holes on the carport. Five vehicles were damaged by the lightning; the brake cylinder was burned out on a truck; the master cylinders on another truck were damaged, as well as the tool box; the tires on a third truck were melted; the polarity on a car's engine was reversed, making the motor run backwards; and there was unspecified damage to a fifth vehicle.									
	07	2100 CST			0	1	?	-	Lightning

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		
— ARKANSAS										
Faulkner County	09	1600 CST			0	0	?	-	Flash Flooding	
		A heavy downpour over Conway dumped 2.4 inches of rain in one hour. Many street intersections were flooded, stalling numerous vehicles. Many homes and businesses were flooded. Some parts of Conway had water 3 feet deep.								
Lincoln County	10	1300 CST			0	0	?	-	Thunderstorm Wind	
		Strong wind blew down tree limbs and power lines in Brady and Gould. A large tree was felled in Gould, damaging a brick building as well as several small metal buildings.								
Desha County	10	1330 CST			0	0	?	-	Thunderstorm Wind	
		Tree limbs and power lines were knocked down in Dumas. Also, a building under construction was levelled.								
Washington County	10	2010 CST			0	0	?	-	Thunderstorm Wind	
		The observer at the Flight Service Station in Fayetteville recorded 69 mph wind gusts. Three aircraft were damaged at the airport.								
Benton County	10	2015 CST			0	0	-	-	Thunderstorm Wind	
		Several trees and power lines were reported blown down in Garfield, according to the Springdale Police Department.								
Hot Spring County	17	1958 CST			0	0	-	-	Thunderstorm Wind	
		Many trees, tree limbs, and power lines were blown down in Lono, Rolla, Donaldson and Friendship. At least 28 trees and two power poles were knocked down in Donaldson.								
Sebastian County	23	1230 CST			0	15	-	-	Thunderstorm Wind	
					0	6	-	-	Lightning	
		A thunderstorm moved into Camp Chaffee from the west, producing 45 mph wind gusts and frequent lightning. Guardsmen were camping out and doing field maneuvers when the storm moved over. Six persons were injured by lightning, three of them required hospitalization. Fifteen other guardsmen were injured by collapsing tents and their support poles; three of them required medical attention, but they were treated and released.								
Sebastian County	23	1240 CST			0	0	-	-	Lightning	
		23	1315 CST		0	0	4	-	Lightning	
		Lightning struck an old factory building in Fort Smith and started a short-lived fire on the top floor; but the heavy rain with the storm put out the fire. Another strike at a Fort Smith residence caused \$5,000 in fire damage to the attic and contents.								
Pulaski County	23	1415 CST			0	0	3	-	Thunderstorm Wind	
		Strong wind and heavy rain occurred over parts of Jacksonville. There were power interruptions and one tree was blown down, denting a truck slightly.								
White County	24	1635 CST			0	0	-	-	Hail (1.75")	
		A Searcy radio station reported golfball-size hail and strong winds northeast of the city.								
Union County	27	1730 CST			0	1	-	-	Lightning	
		A man was struck by lightning in El Dorado at a poultry plant. He was treated and released at a nearby hospital.								
Benton County	27	2000 CST			0	0	?	-	Thunderstorm Wind	
		Gravette experienced strong winds that knocked down tree limbs in town. Just south of Gravette, a chicken house was unroofed and other out-buildings were damaged by falling tree limbs.								
— ARKANSAS										
Ouachita, Columbia, and Union Counties	27	1400 CST			0	0	5	-	Flash Flooding, Thunderstorm Wind	
									until	
		29	0600 CST							
		The remnants of Hurricane Bonnie moved through the state from west to east, with the low pressure center remaining to the south of Little Rock. North of the center, only light rain showers or steady rain fell. To the south, it was a different story! One unofficial rainfall report mentioned 13.75 inches near Smackover, along the Ouachita-Union County line. Several roads were washed out in Ouachita County near Elliott. In Union County, many roads and bridges were washed out, and damages totaled \$200,000. U. S. Highway 79 was closed due to high water between Magnolia and Stephens. Smackover Creek overflowed its banks, forcing the evacuation of 3 or 4 families near the Union-Ouachita County line; about 20 houses were flooded in the area. Street flooding was reported in Stephens, Louann, Standard-Umpstead, Joyce City, Frenchport, Ozeman, Buena Vista, and El Dorado. About a dozen trees were blown down in El Dorado. An earthen dam near Mount Holly broke at 2:30 PM CST on Saturday, forcing the evacuation of one mobile home.								
4 CALIFORNIA, Northern — NONE REPORTED										
4 CALIFORNIA, Southern — NONE REPORTED										
5 COLORADO										
Huerfano Cy; Cucharas River	1-4				0	0	5	0	Rain, Floods	
		Heavy rain caused the Cucharas River to flood, washing out two bridges and causing over \$50,000 damage to a golf course.								
Teller Cy; Woodland Park		4	late aftn.		0	0	4	0	Heavy rain	
		2.16 inches of rain fell in Woodland Park, and hail piled up an inch deep on the ground. The resultant flooding damaged streets, culverts, and several buildings. Total damage was estimated at \$11,000.								
Weld Cy; Johnstown		5	late aftn.		0	0	0	0	Heavy rain	
		2.5 inches of rain fell in just 35 minutes at Johnstown, causing flooding of streets, basements, and a sewage treatment plant.								
Pueblo Cy; Rye		5	1700MST		0	0	3	0	Rain, Hail (.8)	
		3/4 inch hail fell at Rye, along with 1.66 inches of rain. Some roofs and gardens were damaged.								
Larimer Cy; 5SW of Loveland		7	1530MST		0	0	0	0	Hail (1.0)	
		1 inch hail fell 5 miles southwest of Loveland.								
Boulder Cy; Lafayette		7	late aftn.		0	0	0	0	Hail (.9)	
		7/8 inch hail fell at Lafayette.								
Morgan Cy; Weldona		7	1830-2000MST		0	0	5	5	Heavy rain, Hail	
		4 inches of rain fell in just 90 minutes at Weldona. There was extensive water damage to schools, homes, and businesses, and crops were battered by hail; 500 acres suffered heavy damage. Streets were closed by flooding, and highway signs and road shoulders were washed out.								
Arapahoe Cy; Littleton		8	1600MST		0	0	4	0	Tstm. winds	
		Strong winds blew down a garage wall in Littleton, and caused minor roof and window damage to several other homes. Boats were overturned and damaged at a sporting goods store nearby. The wind originated from the same thunderstorm cell that later produced a tornado in Denver and Aurora.								
Denver, Arapahoe Cys; Denver, Aurora		8	1610-1615MST	1.4	50	0	6	6	0	Tornado (F2)
		A tornado touched down in extreme southeast Denver and moved due northeast into Aurora. The twister did most of its estimated \$1 million damage shortly after touching down in an apartment complex and a shopping mall. Two apartments were completely unroofed; wooden chimney facings were demolished, and metal pipes were twisted. Many trees up to 25 feet high in the complex were uprooted. Doors were ripped off their hinges, and several parked cars were damaged.								
		In the shopping mall, a wall of a building was stripped of its brick facing, and many windows were broken. The twister picked up an aluminum rowboat, carried it 250 feet over some apartments, and deposited it in a vacant storefront. Around 200 cars were damaged in the shopping center. Benches bolted to the pavement were knocked over.								
		Six people suffered minor injuries caused by flying debris. After hitting the shopping center and apartment complex, the tornado moved northeast into a residential area; it toppled some more trees and damaged several fences.								

STORM DATA AND UNUSUAL WEATHER PHENOMENA

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					KILLED	INJURED	PROPERTY	CROPS	
COLORADO									
Weld Cy; Pierce, Roggen	8	1615MST	0	0	0	0	4		Rain, Hail (1.0)
1 inch hail fell at Pierce in northwest Weld County; there was some crop damage nearby. Some hail damage to wheat also occurred in the southeast part of the county near Roggen, which was drenched with 2.35 inches of rain during the afternoon.									
Adams Cy; 5N Watkins	8	1615MST	2	100	0	0	0	0	Tornado (F2)
A thunderstorm produced three separate tornadoes 5 miles north of Watkins; they were filmed by a National Weather Service employee. The largest twister had a diameter of about 100 yards; the two smaller ones were about 50 yards across.									
Kiowa Cy; 12 E Eads	8	1630MST	0.5	50	0	0	0	0	Tornado (F1)
A tornado briefly touched down 12 miles east of Eads.									
Weld Cy; 5E Brighton	9	0920MST	1/4	30	0	0	0	0	Tornado (F1)
A tornado touched down briefly 5 miles east of Brighton, moving northeast. The same storm dumped heavy rain in the northern Denver metro area, causing some street flooding.									
Larimer and Weld Cys; Loveland to Milliken	9	1030-1130MST			0	0	3	0	Heavy rain
Heavy rain hit the area between Loveland and Milliken. An inch fell in 30 minutes in southeast Loveland, and Milliken was drenched with 2 inches in 40 minutes. There was minor damage there to businesses and apartments as two city blocks were flooded. Widespread street flooding occurred in Loveland.									
Elbert Cy; Kiowa	9	1500MST			0	0	0	0	Hail (.8)
3/4 inch hail fell at Kiowa.									
Kiowa Cy; Eads	9	1520MST			0	0	0	0	Hail (1.0)
Hail 1 inch in diameter was observed in Eads.									
Lincoln Cy; 10 SE Hugo	9	1530MST	1/2	40	0	0	0	0	Tornado (F1)
A tornado was sighted by the state patrol 10 miles southeast of Hugo.									
El Paso Cy; Colorado Springs	13	1448MST			0	0	0	0	High winds
A gust of 62 mph was observed at Colorado Springs.									
Kit Carson Cy; Cheyenne Wells	13	1630-1700MST			0	0	0	0	Hail (2.0), Tstm. winds
2 inch hail fell at Cheyenne Wells, and wind gusts reached 60 mph.									
Kit Carson Cy; 12N of Cheyenne Wells	13	1658MST	1/2	40	0	0	0	0	Tornado (F1)
A tornado touched down 12 miles north of Cheyenne Wells.									
El Paso Cy; 15 N of Colorado Springs	14	1700MST			0	0	0	0	Hail (1.8)
1 3/4 inch hail fell 15 miles north of Colorado Springs.									
El Paso Cy; 5 NE of Peyton	14	1940MST			0	0	0	0	Hail (1.8)
1 3/4 inch hail fell 5 miles northeast of Peyton.									
Adams Cy; N of Denver	16	1930MST			0	5	0	0	Lightning
Lightning injured five people just north of the Denver city limits in Adams County. The victims were members of a drum and bugle corps and were standing near a metal scaffold. Heavy rain caused street flooding in the Denver area at the same time.									
Larimer Cy; Campion	17	2100MST			0	0	3	0	Tstm. winds
30 yards of roofing were torn off a barn near Campion. Two bulls were injured by falling debris.									
Douglas Cy; Highlands Ranch	20	1400MST			1	0	0	0	Lightning
A man was killed by a lightning strike at Highlands Ranch, just south of Denver.									
Morgan Cy; 8S Brush	21	1614MST			0	0	4	0	Tstm. winds
Strong winds, probably a thunderstorm downburst, damaged or destroyed several outbuildings 8 miles south of Brush. A sprinkler system was damaged when it was picked up and thrown over a fence. A pickup truck was damaged by a falling tree limb.									
Baca Cy; Springfield, Pritchett	23	1305-1350MST			0	0	0	0	Hail (.8)
3/4 inch hail fell at Springfield and Pritchett. The hail piled up 3 to 4 inches deep in Pritchett, and was accompanied by 2.35 inches of rain.									
Jefferson Cy; Golden Gate Canyon	26	1730-1830MST			0	0	0	0	Hail
Hail piled up 1 1/2 inches deep in Golden Gate Canyon, and covered roadways an inch deep in Evergreen.									
6 CONNECTICUT									
CTZ001 Northwest Portion, Litchfield County	05-07	Evening Morning			0	0	?	?	Heavy Rain
Heavy rain amounting to 6 to 8.6 inches fell across the area during about a 48 hour period. Basement flooding was reported in susceptible areas, and minor flooding of the Housatonic River occurred in Monroe. Rainfall totals of 8.6 inches in Colebrook, 7.6 inches in Sharon, and 7.3 inches in Norfolk were reported.									
CTZ005 Fairfield County	08	1600-1700EST			0	0	2	0	Lightning
Heavy thunderstorms struck with lightning, knocking out electric power to about 6,000 customers. The greatest number of outages was reported from Norwalk where about 2,300 lost power. In Westport, a bolt of lightning struck a tree and damaged a nearby house.									
CTZ002 Hartford County, Farmington	24	1613EST			0	1	3	0	Thunderstorm Wind
Gusty winds accompanying a thundersquall felled a tree which struck an auto, injuring the driver and severely damaging the car.									
7 DELAWARE ————— NONE REPORTED									
8 FLORIDA									
St. John County	02	1430EST			0	0	3	-	Thunderstorm Wind
Thunderstorm winds blew the roof off of a barn near Hastings.									
Duval County	02	1445EST			0	0	3	0	Thunderstorm Wind, Hail (1.75)
A thunderstorm produced wind of up to 57 mph and hail of up to 1.75 inches in diameter, causing downed trees and car damage in the Jacksonville area.									
Polk County	03	1434EST	0.5	20	0	0	0	0	Tornado (F0)
A tornado was reported 18 miles south of Lakeland.									
Pinellas County	03	1615EST	0.5	20	0	0	2	0	Tornado (F0)
A tornado briefly touched down in Indian Rocks Beach, damaging roofs and trees.									
Nassau County	07	1830EST	0.5	20	0	0	2	0	Tornado (F0)
A tornado briefly touched down in Callahan, damaging a trailer and outbuildings.									
Palm Beach County	08	UNK	0.5	20	0	0	2	0	Tornado (F0)
A tornado briefly touched down, damaging roofs and destroying a storage shed and a 40 foot tree.									
Palm Beach County	08	1130EST			0	1	0	0	Lightning
A 38 year old woman was injured by lightning while she was standing in water near a small boat. The lightning struck a radio antenna, then arced through the water to the woman.									
Hernando County	10	1030EST			0	4	0	0	Lightning
Lightning struck a pine tree, then traveled 50 feet and injured four workers who were burying electrical cable.									
Manatee County	10	1300EST			0	6	0	0	Lightning
Lightning struck a tree under which six workers had taken refuge from a rain storm.									
Manatee County	10	1420EST			1	0	0	0	Lightning
A 24 year old male was struck and killed by lightning as he was loading a truck in a field.									
Pinellas County	12	0820EST	2.0	40	0	0	4	0	Waterspout/ Tornado (F0)
A large waterspout formed over Tampa Bay, then moved onshore causing damage to six houses in St. Petersburg.									
Brevard County	12	1245EST			1	0	0	0	Lightning
Lightning struck and killed a male described as in his 50's. The man was walking along the beach. The strike occurred 15 minutes after rain from the storm started to fall.									
Alachua County Alachua County	13 13	1600EST 1700EST			0 0	0 0	0 -	0 -	Thunderstorm Wind Hail (1.50)
Ping pong ball size hail and high wind was reported as a severe thunderstorm moved through Gainesville. Several trees were downed by high wind.									

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					KILLED	INJURED	PROPERTY	CROPS	
— FLORIDA									
Brevard County	14	1126EST			0	0	-	-	Hail (0.75)
									Hail of up to 0.75 inches in diameter was reported 8 miles south-west of Melbourne.
Manatee County	16	UNK			0	1	0	0	Lightning
									A 19 year old male was struck by lightning while he was working on a roof. Skies were partly cloudy and light rain was falling when the lightning struck.
Orange County	16	1600EST			0	0	5	0	Thunderstorm Wind
									Thunderstorms produced winds which caused damage to five plant nurseries.
Orange County	17	1530EST			1	0	0	0	Lightning
									A 14 year old male was struck by lightning while he was crossing a soccer field.
Pinellas County	18	1400EST			0	0	4	0	Thunderstorm Wind
									A thunderstorm produced wind which blew the roof off of a mobile home.
Gilchrist County	18	1615EST			0	0	4	0	Lightning
									Lightning started a fire which destroyed a store.
Sumter County	19	1410EST			0	0	2	-	Thunderstorm Wind
									High wind caused damage to a mobile home.
Polk County	19	1510EST	0.5	30	0	0	4	0	Tornado (F0)
									A tornado touched down in Haines City, ripping a portion of roof off of a house and uprooting trees.
Citrus County	19	1510EST			0	0	3	0	Thunderstorm Wind
Citrus County	19	1600EST			0	0	3	0	Thunderstorm Wind
									Severe thunderstorms moved through Citrus County, producing high winds which damaged mobile home roofs and trees at Floral City, and then later at Inverness.
Dade County	19	1915EST			0	1	0	0	Lightning
									A 15 year old male was struck by lightning while he was repairing an automobile. It was not raining at the time.
Dade County	20	1500EST			0	2	0	0	Lightning
									A 44 year old male was struck by lightning while he was unloading a trailer at a dump. The man's 19 year old son touched the victim and was also shocked. Rain was falling at the time of the lightning strike.
Monroe County	21	0415EST	1.0	30	0	0	5	0	Waterspout/ Tornado (F1)
									A waterspout moved onshore at Plantation Key, striking a nearly vacant trailer park. One trailer was destroyed, two were extensively damaged, and three sustained minor damage. Several trees were uprooted and powerlines were downed.
Dade County	23	1320EST			0	1	0	0	Lightning
									A 25 year old male construction worker was struck by lightning. No rain was reported at the time of the lightning strike.
Palm Beach County	24	UNK			1	0	0	0	Lightning
									Lightning struck and killed a male described as in his early 20's as he was working in a plant nursery.
Palm Beach County	26	1345EST	0.5	20	0	0	0	0	Tornado (F0)
									A tornado one mile east of Pahokee was reported by the Belle Glade Sheriff's Office.
Columbia County	27	UNK			0	0	0	0	Thunderstorm Wind
									Thunderstorms produced high winds which damaged large trees in Lake City.
Santa Rosa County	28	1300EST			0	1	0	0	Lightning
									Lightning struck a pine tree on a golf course. The lightning strike injured a 17 year old male who was standing 40 feet from the tree.
Citrus County	28	1800EST	0.5	30	0	0	4	0	Tornado (F0)
									A tornado ripped the roof off of a house under construction and deposited it one block away.
9 GEORGIA									
Liberty County	01	1415EST			0	0	4	0	Thunderstorm wind
									A community center was damaged by thunderstorm winds that damaged an exterior wall and the roof. Several trees were uprooted around the building. The center was located 17 miles southeast of Hinesville.
Ben Hill County	01	1730EST			0	0	0	4	Hail (1.5)
									Hail up to an inch and a half destroyed or heavily damaged corn and bean fields near Fitzgerald.
Banks County	02	1630EST			0	0	?	0	Thunderstorm wind
									Thunderstorm winds downed a few trees in Homer.
Turner County	03	1455EST 1520EST			0	0	?	?	Hail (1.0) Thunderstorm wind
									Nickle size hail fell just north of Ashburn and one inch hail was reported east of Ashburn. Thunderstorm winds destroyed a shed and damaged a house 5 miles east of Ashburn.
Crisp County	03	1530EST			0	0	0	0	Hail (1.0)
									Hail one inch in diameter fell in southern Crisp County.
Walton County	08	1515EST			0	0	4	0	Thunderstorm wind, Hail (0.75)
									Thunderstorm winds downed trees and knocked down three walls of an elementary school gymnasium. Nickle size hail fell with the storm.
Greene and Morgan Counties	08	1630- 1645EST			0	0	?	0	Thunderstorm wind
									Trees were downed on Highway 278 near the Greene/Morgan County line.
Bibb County	09	1445EST			0	11	?	0	Lightning
									Eleven people were injured when lightning struck a group of tents housing a military group encamped at Herbert Smart Downtown Airport. None were seriously injured.
Payette County	09	1500EST			0	0	3	0	Thunderstorm wind, Hail
									Hail to the size of tennis balls was reported in Fayetteville. Several trees were downed in northeast Fayetteville, damaging several cars.
DeKalb County	09	1545EST			0	0	3	0	Thunderstorm wind
									Thunderstorm winds downed a tree onto a house in Decatur.
Screven County	09	1630EST	0.5	55	0	0	4	0	Tornado (F1)
									A tornado touched down 9 miles west of Sylvania in Screven County. The tornado destroyed two small sheds and two large implement shelters.
Decatur County	09	1630EST			1	0	0	0	Lightning
									A 41 year old man was killed by lightning in a field near the Mitchell/Decatur County line. M410
Morgan County	09	1720EST			0	2	3	0	Thunderstorm wind
									Thunderstorm winds damaged a mobile home near Madison. Two people in the home had minor injuries.
Rockdale County	09	1728EST			0	0	4	0	Lightning
									Lightning caused two explosions that heavily damaged a natural gas pipeline and a distribution and pumping station near the DeKalb County line.
Barrow County	09	1728EST			0	0	?	0	Thunderstorm wind
									Thunderstorm winds heavily damaged a mobile home and downed several trees in Winder.
Jackson County	09	1735EST			0	0	?	0	Thunderstorm wind
									Many trees were downed by thunderstorm winds in Braselton.
Oconee County	09	1740EST			0	0	?	0	Thunderstorm wind
									Trees were uprooted by thunderstorm winds in southern Oconee County.
Clarke County	09	1740- 1800EST			0	0	3	0	Thunderstorm wind
									Thunderstorm winds damaged roofs and downed several trees in northeast Athens and in eastern Clarke County.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 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	
— GEORGIA									
Putnam County	10	1640EST			0	0	4	0	Lightning
									Lightning started a fire that damaged a house and an apartment house in Batonton.
Toombs and Appling Counties	18	1345-1400EST			0	0	?	0	Thunderstorm wind
									Trees were uprooted by thunderstorm winds in southern Toombs and in northern Appling Counties. A trailer was blown off its foundation in northern Appling County.
Laurens County	18	1550EST			0	0	3	0	Thunderstorm wind
									Thunderstorm winds downed trees and rolled a trailer house in Brewton.
Emanuel County	18	1600EST			0	0	3	0	Thunderstorm wind
									Thunderstorm winds damaged utility buildings in Oak Park in southern Emanuel County.
Treutlen County	18	1611EST			0	0	0	?	Hail (2.0)
									Hail $\frac{1}{4}$ inch to 2 inches in diameter fell in Soperton and in the eastern part of Treutlen County.
Pierce County	18	1800EST			0	0	3	0	Thunderstorm wind
									Several trees were uprooted and a shed was destroyed along the banks of Hurricane Creek in northwest Pierce County.
Laurens County	19	1800EST			0	0	3	0	Thunderstorm wind
									Trees were blown down along Highway 86 at Pughes Creek near Dublin.
Seminole County	25	1600EST			0	0	4	0	Thunderstorm wind
									The roof of an old gymnasium being used for a community center was heavily damaged by thunderstorm winds. Several large trees were also uprooted in the area.
Richmond County	26	1430EST			0	0	0	?	Hail (1.5)
									Hail one to one and a half inches in diameter fell in southeast Augusta.
Dougherty County	26	1545EST			0	0	?	?	Hail (1.75)
									A thunderstorm produced hail to golfball size on the east side of Albany.
Montgomery County	26	1820EST			0	0	?	0	Thunderstorm wind
									Thunderstorm winds downed trees and limbs in Mt. Vernon.
Laurens County	26	1900EST			0	0	4	0	Thunderstorm wind
									A small country store was destroyed by thunderstorm winds 6 miles north of Dublin.
Putnam County	26	2103-2120EST			0	0	?	0	Thunderstorm wind
									Several trees were downed in Batonton by thunderstorm winds.
Henry County	27	1505EST			0	0	4	0	Thunderstorm wind, Hail (1.25)
									Hail one and a quarter inches in diameter fell and thunderstorm winds downed several trees and damaged several roofs five miles northeast of McDonough. Winds also ripped the roof off a barn and downed trees a few minutes later at Locust Grove.
Fulton County	27	1645EST			0	0	4	0	Thunderstorm wind
									A downburst from a thunderstorm occurred between Peachtree Battle and Andrews Drive in Atlanta. Many trees were snapped off or uprooted, taking many power and telephone lines down. Many homes and vehicles were damaged.
Madison County	28	1430EST			0	0	4	0	Thunderstorm wind
									Two large chicken houses were damaged and several trees downed by thunderstorm winds near Hull.
10 IDAHO									
ID2002 Carey, Blaine County	04	Unknown			0	0	0	7	Hail (1.5)
									A public report of golfball size hail just north of Carey was received.
ID2005 Mountain Home, Owyhee County	05	0945MST			0	0	0	0	Thunderstorm
									Mountain Home Air Force radar detected a thunderstorm with a signature indicative of a possible tornado 30 miles to the southwest near C.J. Strike Reservoir. However, no reports of damage or public sightings were received.
ID2006 Washington County (Hells Canyon)	05	Afternoon			0	0	4	0	Flash flood
									A "cloudburst" brought a wall of water, rock, and mud down around a home at Brownlee Reservoir and blocked the bridge over Brownlee Creek.
ID2002 Burley, Cassia County and Minidoka County	05	1300MST 1308MST			0	0	5	5	Hail (2.0) Hail (1.0)
									Hail (2.0) pelted Cassia County, causing damage to 200 cars at a Burley dealership, and 15 to 30 thousand acres of crop damage was done in the Minidoka area.
ID2008 Lewiston, Nez Perce County	14	1415MST			0	0	3	0	Strong winds
									Strong winds blew power lines and tree limbs down in the Lewiston area. The peak wind gust at the Lewiston WSO was 39 mph.
ID2003 Most of zone from Ft. Hall, Bingham County to Island Park, Fremont County	14	1600MST			0	0	5	0	High wind
									Thundershowers along a strong cold front caused "a great deal of damage to roofs in Jefferson County". Downed trees, blocked roadways, and blown-off roofs were reported from Fort Hall to Island Park. Downed pine trees closed U.S. Highway 20 in the Island Park area for a time. Peak wind gusts were 54 mph at the WSO Pocatello and 65 mph at the Blackfoot Airport.
ID2002 3N Buhl, Twin Falls County	24	2000MST	0.5	50-100	0	0	3	0	Tornado (F1)
									A small tornado uprooted six giant poplar trees, damaged a vacant house and adjoining barn, and flattened a chicken house.
ID2003 6S Pocatello Airport, Power County	25	1346MST			0	0	0	0	Funnel cloud
									A funnel cloud 6 miles south of the Pocatello Airport was sighted from the Weather Service office at the airport.
ID2009 Bonner and Kootenai Counties	28	1930MST			0	0	3	0	Strong winds, Lightning
									Wind gusts estimated at 50 mph downed trees and power lines in Kootenai County. Widespread lightning strikes caused power outages and three small forest fires in Bonner County.
11 ILLINOIS									
Cass County, Ashland	04	1520CST	3.0	100	0	0	0	3	Tornado (F0)
									A tornado cut a 3-mile path through farm fields.
Ford County, Gibson City	06	1132CST			0	0	0	0	Funnel cloud
Edgar, De Witt, Logan, Piatt, and Champaign Counties	06	1640-1740CST			0	0	0	0	Funnel clouds
									Numerous funnel clouds occurred at many locations in the area.
IL2013 White County	09	1000-1100CST			0	0	4	?	Flash flood
									Brief flash flooding occurred on a few streams at several locations in the county.
Menard County	14	1735-1840CST			0	0	3	3	Hail (1.75), Tstm. Winds (70)
									A severe thunderstorm caused wind damage to several rural structures across the south half of the county. Hail also damaged field crops.
Ford County, Paxton area	14	1850CST			0	0	1	3	Hail (1.75)
Cook County, Lemont	19	1500CST			0	0	?	?	Hail (1.75)
Grundy County	27	1115-1140CST			0	0	4	?	Tstm. Winds (60)
									Thunderstorm winds and intense rains resulted in widespread minor damage across north and central portions of the county. Downed trees damaged several cars, and IL Rte.47 was briefly blocked. Numerous automobile accidents occurred in the Morris area due to poor visibility at the height of the storm.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1986

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					KILLED	INJURED	PROPERTY	CROPS	
ILLINOIS									
Kankakee County, Kankakee and Bradley	27	1245-1320CST			1	0	5	?	Tstm.Winds (80), Hail (0.75), Lightning
A severe thunderstorm raked the Kankakee area, resulting in one death and much damage. High winds toppled many large trees onto automobiles, houses and garages. A woman was crushed to death in her car by a falling tree in Bradley. High winds unroofed a furniture warehouse in Bradley and winds, coupled with hail, broke windows. WIND F27V.									
Hancock County, Nauvoo area	30	0135CST			0	0	4	?	Tstm.Wind (75)
	30	0140CST	0.3	?	0	1	4	0	Tornado (F1)
High winds caused widespread damage in northwest Hancock County, mainly in the vicinity of Nauvoo. A tornado moved through the Bluffwoods addition south of Nauvoo, destroying one house. One occupant of the house was slightly injured.									
Ford County, Gibson City	30	0400CST	4.0	125	0	0	0	4	Tornado (F0)
A weak tornado cut a 4-mile path, 300-400 feet wide, through cornfields just north of Gibson City.									
Iroquois County	30	0340-0440CST			0	0	3	?	Tstm.Wind (70)
Thunderstorm winds caused widespread minor damage across north and central portions of the county. A semi-trailer truck was overturned near Ashkun.									
12 INDIANA									
St. Joseph Co, 3N North Liberty	10	2000 EST			0	0	?	?	Tstm.Wind
Strong winds downed trees.									
St. Joseph Co, South Bend	10	2025 EST			0	0	4	?	Tstm.Wind, Ltng.
Numerous power outages due to broken tree limbs and lightning were reported. Eight trees were downed and lightning set fire to an apartment building. There was some flooding of low areas and city streets.									
Kosciusko Co, Piercetown	10	2315 EST			0	0	4	0	Lightning
Lightning caused a fire that destroyed a barn in Piercetown.									
Boone Co, Advance	11	1745 EST			0	0	2	0	Tstm.Wind
A few large trees were uprooted near Advance.									
Boone Co, Whitestown	11	1810 EST			0	0	2	0	Tstm.Wind
A few large trees were uprooted near Whitestown.									
Johnson Co, Greenwood	11	2035 EST			0	0	3	0	Tstm.Wind
Strong thunderstorm winds downed tree limbs in Greenwood, and a semi was damaged about 1 mile south of the Greenwood interchange on Interstate 65.									
Montgomery Co, Ladoga	16	1633 EST			0	0	2	0	Tstm.Wind
Strong thunderstorm winds downed a few trees in Ladoga.									
Delaware Co, Muncie	16	1700 EST			0	0	4	0	Tstm.Wind
	16	1700 EST			0	0	4	0	Lightning
Strong thunderstorm winds knocked trees and power lines down on 4 houses in Muncie. A fire caused by lightning caused \$15,000 damage to a home in Muncie.									
Randolph Co, Faraland	16	1715 EST			0	0	2	0	Tstm.Wind
Thunderstorm winds downed small trees in Faraland.									
Hancock Co, Willow Branch Shirley	16	1745 EST			0	0	3	?	Tstm.Wind
	16	1745 EST			0	0	2	0	Tstm.Wind
Strong thunderstorm winds in Willow Branch blew down a small shed and a camper, as well as some trees and power lines. Trees were downed in Shirley.									
INDIANA									
Marion Co, Indianapolis	16	1757 EST			0	0	3	0	Tstm.Wind (50)
Strong thunderstorm winds downed several trees and damaged the wall of a building at Weir Cook Airport. WSPD Indianapolis, also at the airport, measured a wind gust to 58 mph.									
Randolph Co, Winchester	16	1800 EST			0	2	3	0	Tstm.Wind
Strong winds downed many trees in Winchester. Some fell on cars, one fell on a church, and one on a residence.									
Rush Co, SN Rushville Sexton	16	1834 EST			0	0	3	0	Tstm.Wind
	16	1839 EST			0	0	3	0	Tstm.Wind
Strong thunderstorm winds downed trees and power lines north of Rushville. Five minutes later in Sexton, windows were blown out of several houses and a few large trees were uprooted.									
Fayette Co, Orange	16	1855 EST			0	0	3	0	Tstm.Wind
A trailer was blown over and tree limbs were downed by strong thunderstorm winds.									
Hendricks Co, Avon	16	1855 EST			0	0	3	0	Tstm.Wind
The Hendricks County sheriff reported trees and outbuildings downed by strong winds at several locations in the county. Trees were downed in Avon.									
Union Co, Liberty	16	1856 EST			0	0	2	0	Tstm.Wind
Strong winds downed large trees just north of Liberty.									
Shelby Co, SR Shelbyville	16	1909 EST			0	0	3	0	Tstm.Wind
Thunderstorm winds downed trees and power lines.									
Morgan Co, Martinsville	16	1915 EST			0	0	4	0	Tstm.Wind
Large trees fell on houses from the north side of Martinsville to the southeast side, in roughly a S-block area. Also, numerous trees 2 to 3 feet in diameter and large tree limbs were downed in eastern and central Morgan County from 1900 to 1920 EST.									
Brown Co, Helmsburg Bean Blossom	16	1950 EST			0	0	3	0	Tstm.Wind
	16	2002 EST			2	2	2	0	Tstm.Wind
Several large trees were uprooted and power lines were downed near Helmsburg; a number of large trees fell on S.R. 125 near Bean Blossom.									
Bartholomew Co, Hope	16	2025 EST			0	0	2	0	Tstm.Wind
Strong thunderstorm winds downed trees near Hope in northeast Bartholomew County. In the next 20 minutes, several large trees were uprooted from west-central to southern sections of the county.									
Jackson Co, Seyacur	16	2050 EST			0	0	1	0	Tstm.Wind
Strong thunderstorm winds uprooted trees and utility poles in Seyacur and at several other locations in eastern Jackson County.									
Jennings Co, Paris Crossing	16	2110 EST			0	0	3	0	Tstm.Wind
Large trees were downed on several houses between Paris Crossing and Paris, and a barn was damaged near Paris Crossing.									
Jackson Co, Medora	16	2145 EST			0	0	2	?	Tstm.Wind
Strong thunderstorm winds downed large tree limbs, 4 to 5 inches in diameter, near Medora in southwest Jackson County.									
Clark Co, Sellersburg	16	2330 EST			0	0	0	0	Lightning
Lightning caused a fire in a Sellersburg home.									
Huntington Co, Huntington	19	2000 EST			0	0	0	0	Hail (0.75)
A spotter reported 3/4 inch hail just southeast of Huntington.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

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					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS			
INDIANA													
Tipton Co., Ashe Grove	22	1425 EST	0	0	0	0	2	0	0	0	Tstr. Wind		
Battle Ground	22	1430 EST	0	0	0	0	3	0	0	0	Tstr. Wind		
											Large trees were uprooted near Ashe Grove. Shortly after that, the roof was lifted off a large shed in Battle Ground and trees were uprooted in Americus.		
Carroll Co., Cutler	22	1450 EST	0	0	0	0	2	0	0	0	Tstr. Wind		
											A few large trees were downed near Cutler, and trees were uprooted north of Cutler near Flora and also at Radnor.		
Farke Co., Guion	22	1730 EST	0	0	0	0	2	0	0	0	Tstr. Wind		
											Strong winds downed a few large trees near Guion.		
Montgomery Co., Crawfordsville	22	1750 EST	0	0	0	0	2	0	0	0	Tstr. Wind		
											Strong winds downed a few large trees 3 miles north of Crawfordsville and about 5 miles northeast of Crawfordsville, near Darlington.		
Boone Co., Zionsville	22	1830 EST	0	0	0	0	3	0	0	0	Tstr. Wind		
											In Zionsville, 2 trees downed by thunderstorm winds fell on homes. Also, numerous trees were downed elsewhere in the county.		
Marion Co., Indianapolis	22	1845-1900 EST	0	0	0	0	5	0	0	0	Tstr. Wind, Funnel		
											Trees were uprooted and snapped off across a small part of north-central Indianapolis, and the roof was torn off a business in the area. On the east side, a semi-trailer was blown over.		
Hancock Co., McCordsville	22	1900 EST	0	0	0	0	3	0	0	0	Tstr. Wind		
											Strong thunderstorm winds knocked a tree down onto a house and also downed 4-inch tree limbs.		
Delaware Co., 35W Muncie	22	1920 EST	0	0	0	0	2	0	0	0	Tstr. Wind		
											Strong winds blew down 4-6 inch tree limbs.		
Whitley Co., Columbia City	27	1540 EST	0	0	0	0	3	0	0	0	Tstr. Wind		
											A roof was blown off a garage near Columbia City.		
Allen Co., Fort Wayne	27	1610 EST	0	0	0	0	4	0	0	0	Tstr. Wind		
											A house under construction just west of Fort Wayne was destroyed by high winds.		
Allen Co., Fort Wayne	27	1625 EST	0	0	0	0	3	0	0	0	Tstr. Wind		
											A number of large trees were uprooted and blown down in Lakton Park and on the north side of Fort Wayne. Also, some trees were reported down in western Allen County.		
Howard Co., Hobbs	27	1740 EST	0	3	0	0	2	0	0	0	Wind		
											Busty winds preceding a thunderstorm knocked a tree into bleachers at a softball game in Hobbs. Three spectators were injured, none seriously. The tree was 18-22 inches in diameter.		
Jackson Co., Millert	30	1340 EST	0	0	0	0	3	0	0	0	Hail 11.50"		
											Large hail covered 1/2 ground and did quite a bit of damage to wheat fields.		
Fulton Co., Brentcastle	30	1540 EST	0	0	0	0	4	0	0	0	Tstr. Wind		
											In Brentcastle, strong winds flattened 15 or more trees. A garage under construction was destroyed. Eight level structures were damaged.		
13 IOWA													
Statewide	All Month								0	0	0	6	Floods
													The wet cycle continued for Iowa, and the biggest flooding event - the Flash flood on the 29th-30th and the ensuing flood on the Raccoon River through the 4th of July - is detailed below. But much flooding occurred besides this, especially on the Missouri and the Little Sioux Rivers, inundating farmland.
Wright County, near Holmes	04	1340 CST	0	0	0	0	0	0	0	0	0	0	Funnel Cloud
													A funnel was sighted about 10 miles west of Clarion.
Louisa and Des Moines Counties	04	1440 CST	0	0	0	0	4	5	0	0	0	0	Flash Flood
													Very heavy rains in a brief amount of time resulted in flash flooding in Southeast Iowa.
O'Brien County, 2 NW Pringhar	10	1755 CST	.1	15	0	0	0	0	0	0	0	0	Tornado (F0)
O'Brien County, Hartley	10	1825 CST			0	0	0	0	0	0	0	0	Funnel
Polk County, Des Moines	10	1855 CST			0	0	4	0	0	0	0	0	Winds (60+ mph)
Palo Alto County, Emmetsburg	10	1904 CST			0	0	4	4	0	0	0	0	Winds (60+ mph)
Allamakee County, 1 E Frankville	10	1930 CST			0	0	4	3	0	0	0	0	Winds (60+ mph)
Lucas County, 3 SE Charlton	10	2005 CST	.1	10	0	0	2	0	0	0	0	0	Tornado (F0)
Marion County, Harvey	10	2043 CST	.1	15	0	0	3	0	0	0	0	0	Tornado (F0)
Tama County, Toledo	10	2045 CST			0	0	4	2	0	0	0	0	Winds (60+ mph)
Monroe County, Albia	10	2100 CST			0	0	4	0	0	0	0	0	Winds (60+ mph)
Wapello County, Ottumwa	10	2130 CST	.2	25	0	0	5	0	0	0	0	0	Tornado (F1)
Iowa County, 2N Marengo	10	2140 CST	.2	25	0	0	5	0	0	0	0	0	Tornado (F1)
Iowa County, Middle Amana	10	2200 CST			0	2	4	0	0	0	0	0	Winds (60+ mph)
Linn County, Marion	10	2205 CST			0	0	4	0	0	0	0	0	Winds (60+ mph)
Lee County, Argyle	10	2205 CST			0	0	4	3	0	0	0	0	Winds (60+ mph)
Linn County, 4W Mt. Vernon	10	2220 CST			0	0	4	0	0	0	0	0	Winds (60+ mph)
Jones County, 7N Anamosa	10	2230 CST			0	0	4	3	0	0	0	0	Winds (60+ mph)
													A line of thunderstorms developed in Iowa in the evening hours and moved to the south. Severe weather was spotty, but was quite notable in a few areas. A couple of motorcyclists were hurt by a falling tree in the storm in Cedar Rapids, one critically.
Harrison County	13	Night			0	0	1	3	0	0	0	0	Flash Flood
													Up to 4.4 inches of rain caused flooding of bottomlands around Mondamin and Woodbine.
Boone County	18	0100 CST			0	0	3	2	0	0	0	0	Lightning
													Lightning struck a house in Boone, shorting the fuse box and wrecking 3 TVs, the washer and the cable television hookup.
Clay County, 2N Rossie	20	1450 CST			0	0	4	0	0	0	0	0	Winds (60+ mph)
Emmet County, Estherville	20	1545 CST			0	0	3	0	0	0	0	0	Winds (60+ mph)
													Strong winds accompanied some very heavy rains in thunderstorms that moved into Northwest Iowa.
Winebag County, Buffalo Center	21	0203 CST			0	0	4	0	0	0	0	0	Winds (60+ mph)
													A third of a mile of electrical line was downed, a tree blown down, a roof peeled off a barn, and two semitrailers overturned by straight-line winds around Buffalo Center.
Polk County, Saylorville Lake	21	1400 CST			1	0	0	0	0	0	0	0	Lightning
													A man out fishing with his father and a friend was struck and killed by lightning while pulling anchor to head to shore. M240
Mahaska County, 13 NE Bussey	21	1700 CST			0	0	5	0	0	0	0	0	Winds (60+ mph)
													A couple of buildings sustained major damage in a storm that ravaged Mahaska County.
Sioux County, Hawarden	21	2340 CST			0	0	4	3	0	0	0	0	Winds (60+ mph)
Plymouth County, near Hinton	21	2345 CST			0	0	4	3	0	0	0	0	Winds (60+ mph)
Woodbury County, Stone State Park	21	2345 CST			0	0	4	3	0	0	0	0	Winds (60+ mph)
Plymouth County, Remsen	21	2350 CST			0	0	4	3	0	0	0	0	Winds (60+ mph)
Woodbury County, 12 E Sioux City	22	0000 CST			0	0	4	3	0	0	0	0	Winds (60+ mph)
Plymouth County, 8.5NW LeMars	22	0010 CST			0	0	5	4	0	0	0	0	Winds (60+ mph)
													Strong thunderstorms moved into Northwest Iowa from the west and caused quite a bit of wind damage to barns, trees, powerlines.
Dubuque County, Dubuque	22	Morning			0	0	3	0	0	0	0	0	Downpour
Northern Delaware and Southern Clayton Counties	22	0230 CST			0	5	4	4	0	0	0	0	Flash Flood
													Three to six inches of rain in a few hours overnight brought Elk Creek at Twin Bridges Park over its banks. Six campers had to climb onto a picnic table and then on the rafters of a shelter to avoid being carried away by the rising waters. Although taken to the hospital, the campers only suffered bruises. A woman and her two children were slightly injured as well when their vehicle dropped into a 6-foot deep hole caused by the downpour. And in Dubuque, where it rained much less, a collapsed roof drain at a mall caused thousands of gallons of water to pour into a drugstore and department store.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1986

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					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	
IOWA											
Pocahontas County, near Ponda	27	0000 CST			0	0	4	0			Lightning Lightning struck a barn housing 70 hogs at a farm near Ponda. The barn burned to the ground and a thousand bales of hay and 5 pigs were lost.
O'Brien County, 2 E Sanborn	28	0500 CST			0	0	2	4			Hail (1.0) Large hail fell from a severe thunderstorm in this Northwest Iowa community.
Kossuth County, Fenton	28	0728 CST			0	0	2	5			Hail (1.75)
Kossuth County, Fenton	28	0749 CST			0	0	4	2			Winds (60+ mph)
Kossuth County, Algona	28	0749 CST			0	0	2	4			Hail (1.75)
Kossuth County, St. Benedict	28	0759 CST			0	0	2	5			Hail (1.0) The thunderstorms continued to pound along in North-Central Iowa, hitting Kossuth County with wind and large hail in a 20-mile path from Fenton to St. Benedict that was as wide as 3 miles at times.
Marion County, 3 SW Pella	28	1135 CST			0	6	5	3			Winds (70+ mph)
Monroe County, Albia	28	1215 CST			0	0	4	0			Winds (60+ mph)
Wapello County, Chillicothe	28	1220 CST			0	0	2	4			Hail (1.75)
Wapello County, Ottumwa	28	1220 CST			0	0	4	2			Winds (60+ mph)
Van Buren County, Milton	28	1400 CST			0	0	4	2			Winds (60+ mph) Some ferocious storms moved into South-Central and Southeast Iowa, leaving a trail of damage in the form of downed trees and power lines, and fields of corn and beans shredded by hail.
West-Central and Central Iowa (Raccoon River)	29	0400 CST			0	0	6	7			Flood
Monona County, Mapleton	29	2000 CST			0	0	4	0			Winds (60+ mph)
Harrison County, Dunlap and Little Sioux	29	2030 CST			0	1	6	0			Winds (60+ mph)
Crawford County, Manilla	29	2045 CST			0	0	5	4			Winds (60+ mph)
Dickinson County, Spirit Lake	29	2047 CST			0	0	4	2			Winds (70+ mph)
Shelby County, Harlan and Defiance	29	2050 CST			0	0	4	0			Winds (60+ mph)
Carroll, Guthrie, Greene, and Dallas Counties	29	Night			1	2	5	6			Flash Flood
Guthrie County, near Bayard	29	2105 CST	1	50	0	0	6	5			Tornado (F2)
Audubon County, near Exira	29	2115 CST			0	0	5	4			Winds (60+ mph)
Guthrie County, Casey	29	2150 CST	2	75	0	0	5	4			Tornado (F2)
Adair County, 8 SW Greenfield	29	2200 CST			0	0	4	4			Winds (60+ mph)
Adams County, Corning	29	2210 CST			0	0	4	4			Winds (60+ mph)
Polk County, Des Moines and West Des Moines	29	2235 CST	5	50	0	0	6	3			Tornado (F2)
Iowa County, Marengo	29	2330 CST			0	0	4	0			Winds (60+ mph)
Jefferson County, Fairfield	30	0100 CST			0	0	4	4			Winds (60+ mph)
Henry County	30	0100 CST			0	0	4	0			Winds (60+ mph)
Lee County, Montrose	30	0130 CST			0	0	5	0			Winds (60+ mph) Extremely intense thunderstorms developed and traversed Iowa on this Sunday evening, bringing up to 8 inches of rain that caused flash flooding, tornadoes and strong winds that produced much damage. One woman died when she tried to cross a washed-out road with her car 5 miles south of Glidden, and at least two other women had to be rescued in separate incidents of a motor vehicle being carried away in the deluge. Many millions of dollars in damage resulted from the flooding and flash flooding. The crop losses alone are expected to total more than \$20 million. One house built on an artificial lake was actually lifted up and carried 3 miles away by the torrent. The tornado at Bayard destroyed the scoreboard at the high school football field and caused the loss of about 30,000 chickens of 80,000 housed at an egg farm just east of town. The tornado in West Des Moines badly damaged an office building, and caused roof damage to a convenience store and a few other businesses. F33V
14 KANSAS											
Mitchell Co, 15SW Beloit	04	1543CST			0	0	0	0			Funnel
Mitchell Co, 12SW Beloit	04	1600CST			0	0	0	4			Hail(1.75) A thunderstorm dropped 3/4 inch hailstones and damaged crops southwest of Beloit. A funnel was also sighted in the same area.
Mitchell Co, 7S Beloit	05	1420CST			0	0	0	0			Funnel A funnel was sighted south of Beloit.
KANSAS											
Wichita Co, 12SE Leoti	06	2045CST			0	0	0	4			TSTM Wind(62kt), Hail(1.75),Funnel
Kearny Co, Lakln	06	2100CST			0	0	0	0			TSTM Wind(52kt)
Finney Co, 3NW Garden City	06	2130CST			0	0	0	4			Hail(1.75)
Garden City Arpt. Pierceville	06	2130CST			0	0	2	0			TSTM Wind(55kt)
Pierceville	06	2220CST			0	0	2	0			TSTM Wind(52kt)
Gray Co, Cimarron	06	2245CST			0	0	2	0			TSTM Wind(52kt)
Meade Co, Meade	07	0030CST			0	0	2	0			TSTM Wind(52kt)
Ford Co, Ford	07	0030CST			0	0	2	0			TSTM Wind(52kt)
Hodgeman Co, Jetmore	07	0030CST			0	0	2	0			TSTM Wind(52kt) A line of thunderstorms formed between Leoti and Lakln and moved southeast toward Dodge City. The storms packed winds estimated at 60 to 70 mph and a gust at the Garden City Airport was measured at 63mph. Large hail damaged crops northwest of Garden City and southeast of Leoti.
Russell Co, Russell Airport	06	2146CST			0	0	0	0			TSTM Wind(55kt) Outflow wind ahead of a thunderstorm was measured at 63mph at the Russell Airport.
Sedgwick Co, 1.5N Peck	09	1200CST			0	0	3	0			TSTM Wind A severe thunderstorm formed north of Wellington and moved northeast. A wind gust tore the roof from a barn and damaged several outbuildings north of Peck.
Grant Co, BNE Ulysses	09	1610CST			0	0	0	4			Hail(1.75)
Finney Co, 7S Garden City	09	1633CST			0	0	0	3			Hail(1.75)
Kearny Co, Deerfield	09	1648CST			0	0	2	0			TSTM Wind(52kt) A severe thunderstorm dropped large hail and produced winds estimated as strong as 60mph as it moved from Ulysses toward Garden City. Hail caused a good deal of crop damage northeast of Ulysses.
Scott Co, 7SSE Scott City	09	1725CST			0	0	0	2			Hail(1.75),Funnel
Lane Co, Healy	09	1735CST			0	0	0	2			TSTM Wind(52kt) A severe thunderstorm formed south of Scott City and moved northeast. Winds estimated at 60mph and 3/4 inch hail caused little damage.
Ford Co, Dodge City Airport	09	1933CST			0	0	2	0			TSTM Wind(52kt) A thunderstorm produced wind gusts measured at 60mph at the Dodge City Airport.
Cowley Co, 2W Arkansas City	10	1508CST			0	0	2	0			TSTM Wind(52kt), Hail(1.75)
Chautauqua Co, Cedar Vale	10	1615CST			0	0	3	0			TSTM Wind
2S Cedar Vale	10	1702CST	.1	50	0	0	3	0			Tornado(F0)
Hale	10	1730CST			0	0	3	0			TSTM Wind A cluster of severe thunderstorms moved east-northeast from Arkansas City towards Independence. Winds knocked down numerous large trees along the way. A weak tornado dropped down briefly south of Cedar Vale and caused some tree and roof damage.
Wabaunsee Co, Near Alta Vista	10	1610CST			0	0	0	0			Funnels(2)
Shawnee Co, West Topeka	10	1653CST			0	0	3	0			TSTM Wind(58kt)
North Topeka	10	1710CST			0	0	4	0			Hail(1.00)
Jefferson Co, Valley Falls	10	1715CST			0	0	4	0			TSTM Wind
Near Nortonville	10	1730CST			0	0	4	0			TSTM Wind
Douglas Co, Baldwin City	10	1730CST			0	0	3	0			TSTM Wind(52kt)
Atchison Co, Cummings	10	1740CST			0	0	4	0			TSTM Wind
Franklin Co, Near Pomona	10	1800CST			0	0	3	0			TSTM Wind
2SE Ottawa	10	1800CST			0	0	3	0			TSTM Wind
Miami Co, Paola	10	1730CST			0	0	3	0			TSTM Wind(61kt)
Louisburg	10	1800CST			0	0	3	0			TSTM Wind
Johnson Co, Lenexa	10	1800CST			0	0	3	0			TSTM Wind Scattered severe thunderstorms formed first about 40 miles southwest of Topeka and spread towards Atchison and Paola. Occasional winds of 60 to 70 mph caused generally minor tree damage. A barn was damaged near Valley Falls; a mobile home was

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	PROPERTY	CROPS	

KANSAS

											rolled over, a garage damaged and power poles downed at Cummings; a porch was ripped from a home near Nortonville; and a barn was destroyed southeast of Ottawa. Considerable tree damage resulted near Nortonville and some 15 inch diameter trees were broken at their bases.
Wallace Co, 6NW Sharon Springs	13	1815CST			0	0	0	4	TSTM Wind(52kt), Ha11(.75)		
Sharon Springs Logan Co, Winona Oakley	13	1817CST			0	0	4	0	TSTM Wind(60kt)		
	13	1910CST			0	0	3	3	TSTM Wind(52kt), TSTM Wind(62kt), Ha11(.75)		
	13	1918CST			0	0	4	4	TSTM Wind(62kt), Ha11(.75)		
Thomas Co, 5N Oakley	13	1920CST			0	0	0	4	TSTM Wind(62kt), Ha11(.75)		
Sheridan Co, 5SW Hoxie	13	1950CST			0	0	0	4	Ha11(.75)		A thunderstorm produced 60 to 70 mph winds and large hail as it moved from Sharon Springs toward Hoxie. A considerable amount of crop damage resulted.
Smith Co, 15SW Smith Center	13	1820CST			0	0	0	4	Ha11(.75)		A thunderstorm dropped 3/4 inch hail and damaged crops southwest of Smith Center.
Ford Co, Dodge City Airport	14	0248CST			0	0	2	0	High Wind		An outflow wind gust from a distant Oklahoma thunderstorm was measured at 64 mph at the Dodge City airport.
Johnson Co, Olathe Miami Co, Near Louisburg	14	1431CST			0	0	3	0	TSTM Wind(56kt)		
	14	1600CST			0	0	3	0	TSTM Wind		Thunderstorm winds estimated at 60 to 70 mph hit Olathe and also damaged a barn near Louisburg.
Crawford Co, Pittsburg 2N Cherokee Cherokee Co, Galena	17	1625CST			0	0	3	0	TSTM Wind(68kt)		
	17	1710CST			0	0	4	0	TSTM Wind		
	17	1700CST			0	0	3	0	TSTM Wind		A severe thunderstorm packing 60 to 80mph winds moved from Southwest Missouri into the southeast corner of Kansas. The wind blew down trees in Galena and near Cherokee. A garage lost its roof, a metal barn was destroyed and a mobile home was tipped over north of Cherokee.
Gearly Co, Fort Riley	21	1306CST			0	0	2	0	Ha11(1.00)		A thunderstorm dropped one inch diameter hail briefly at Fort Riley's Marshall Field.
Sherman Co, 8SE Goodland Thomas Co, 7S Brewster	21	2100CST			0	0	4	0	TSTM Wind(61kt)		
	21	2120CST			0	0	4	0	TSTM Wind(61kt)		A severe thunderstorm produced winds estimated at 70mph as it moved from southwest of Goodland to southwest of Colby. A few farm buildings and grain bins were damaged.
Rawlins Co, 10NE Atwood	23	1540CST			0	0	0	4	Ha11(.75)		A thunderstorm dropped 3/4 inch hail and caused a good deal of crop damage northeast of Atwood.
Harper Co, Anthony	27	1612CST			0	0	3	2	Ha11(.75), TSTM Wind		
	27	1625CST			0	0	0	2	Ha11(.75)		A thunderstorm dropped 3/4 inch hail in and west of Anthony. Strong winds ripped the door from a hangar at the Anthony Airport and carried it 1000 feet.
Sedgwick Co, McConnell AFB Butler Co, Andover 1E Rose Hill	27	1720CST			0	0	0	2	Ha11(.75)		
	27	1730CST			0	0	4	2	Ha11(1.75)		
	27	1747CST			0	0	3	2	Ha11(1.75)		Thunderstorms dropped golfball size hail from the east side of Wichita towards El Dorado. A good deal of damage was done to roofs, windows and trees in the Andover area.
Cherokee Co, Lowell Columbus	27	1820CST			0	0	2	0	High Wind		
	27	1820CST			0	0	2	0	High Wind		Outflow winds from a distant thunderstorm in Northeast Oklahoma were estimated at 60mph at Lowell and knocked down some power lines in Columbus.

KANSAS

Decatur Co, Near Traer 3W Oberlin Oberlin	29	1700CST			0	0	3	0	TSTM Wind		
	29	1730CST			0	0	4	0	TSTM Wind		
	29	1730CST			0	0	3	0	TSTM Wind(67kt)		A thunderstorm developed over the northwest corner of Decatur County and produced damaging winds as it moved through Oberlin. Two empty grain bins and a wooden granary were blown from their foundations near Traer. The roof was lifted from an airplane hangar 3 miles west of Oberlin, and winds measured at 77mph at the Oberlin Airport damaged several nearby mobile homes.
Riley Co, Manhattan	30	0600CST			0	0	4	0	Lightning		Lightning struck and set fire to a mobile home in Manhattan. The fire left the home a total loss.
Clark Co, Clark Co. Lake	30	1515CST			0	0	2	0	TSTM Wind(52kt)		A wind gust estimated at 60mph accompanied a thunderstorm across Clark County Lake.
Ellis Co, 5SW Hays	30	1725CST			0	0	0	3	Ha11(.75)		A thunderstorm dropped 3/4 inch hail upon a small area southwest of Hays. Little damage resulted.
Grant Co, 5W Ulysses Morton Co, 12E Richfield Rolla Stevens Co, 12NW Hugoton Hugoton Haskell Co, Satanta	30	1915CST			0	0	0	4	Ha11(1.75)		
	30	1922CST			0	0	0	3	Ha11(1.75)		
	30	2025CST			0	0	2	0	TSTM Wind(52kt)		
	30	1922CST			0	0	0	3	Ha11(1.75)		
	30	2025CST			0	0	2	0	TSTM Wind(52kt)		
	30	2025CST			0	0	2	0	TSTM Wind (52kt)		A line of thunderstorms from Elkhart to Ulysses dropped large hail and produced 60mph winds as it moved toward Sublette and Hugoton. Hail did a good deal of crop damage near Ulysses.
Pawnee Co, 7E Larned Stafford Co, Radium Stafford	30	1940CST			0	0	2	0	TSTM Wind(52kt)		
	30	1940CST			0	0	2	0	TSTM Wind(52kt)		
	30	2000CST			0	0	4	0	TSTM Wind		A thunderstorm produced wind gusts estimated at 60mph as it moved across Stafford and Eastern Pawnee Counties. A mobile home was turned over and several others damaged at Stafford Lake.
SPECIAL HAIL SUMMARY											
Kansas-Oklahoma Hail Loss Service reports indicate hail was especially damaging to crops in the listed counties on the following dates:											
02 Sumner											
04 Mitchell, Smith											
06 Finney, Gove, Haskell, Jewell, Logan, Morton, Rawlins, Sheridan											
07 Grant, Haskell, Stevens											
09 Barton, Grant, Haskell, Pawnee, Seward, Stevens											
10 Cowley, Shawnee, Sumner											
13 Gove, Logan, Osborne, Phillips, Rooks, Sheridan, Smith, Thomas, Wallace											
19 Cheyenne											
20 Rooks											
21 Rooks											
23 Cheyenne, Hamilton, Rawlins, Saline, Sherman, Thomas, Wallace											
30 Grant, Stanton											
15 KENTUCKY											
Southern Green County	01	1605EST			0	0	3	0	Severe Thunder- storm/Wind		Columbia State Police reported marble size hail and downed trees in southern Green County near Greensburg.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1986

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					KILLED	INJURED	PROPERTY	CROPS	
— KENTUCKY									
McClellan and Daviess Counties	09	1222-1236CST			0	0	5	0	Lightning
									Lightning during a heavy thunderstorm struck several structures in McClellan and Daviess Counties during the afternoon of June 9th, and led to a fire that destroyed a home located 3 miles west of Calhoun on KY 136 in McClellan County.
									In Daviess County a split-level home on Millers Mill Road, 3 miles south of Masonville sustained roof damage and damage to a bedroom at 1235CST. The lightning hit the roof of the house, then ran into a bedroom where a child was sleeping. The lightning damaged a window, melted an electric line and exploded a piece of paneling, sending chips throughout the room and into a hallway. The child was uninjured.
Muhlenberg County	11	1545CST			0	0	3	0	Severe Thunderstorm/Winds
									Severe thunderstorm winds blew shingles off of 3 houses, overturned two sheds and downed trees near Central City.
Ohio County	11	1620CST			0	0	3	0	Severe Thunderstorm/Winds
									Large trees fell down across Green River Church Road near Cromwell.
Carlisle County	23	1620CST			0	0	3	0	Severe Thunderstorm/Hail and Wind
									County disaster and emergency service personnel reported hail, 3/4 to one inch in diameter, fell near Bardwell. Trees and antennae fell in the severe thunderstorm winds.
Livingston County	23	1635CST			0	0	2	0	Severe Thunderstorm/Winds
									Trees were reported down in Livingston County.
Graves County	23	1635CST			0	0	2	0	Severe Thunderstorm/Winds
									Trees were reported down, as well as power lines, throughout Graves County from Fancy Farm through Mayfield and Sedalia. There was also damage to buildings reported. Trees felled by the storm damaged autos and homes.
Carlisle County	23	1650CST			0	0	4	0	Severe Thunderstorm/Hail
									Hail, one inch in diameter, fell in Carlisle County. Both trees and power lines were reported down across the county.
Boone County	29	late afternoon			0	1	3	0	Strong Thunderstorm/Winds
									A 15 year old girl was injured when strong thunderstorm winds blew down a fireworks stand near U.S. 42 at Florence. Officials said that the structure was moved thirty-five feet by the strong winds gusting to 50 MPH.
Boyd County	30	1400EST			1	1	0	0	Lightning
									Two Ashland, Kentucky men were sitting in a backyard of a home when rain began to fall. A few seconds after the rain began, a lightning bolt struck a 72 year old man and knocked him unconscious. He died nine hours later at King's Daughter's Medical Center. The bolt also struck the other man, 57 years of age, and his dog, injuring both. The man that was killed was sitting in a wooden rocking chair, a few feet from the other man that was injured. The injured man was in a metal chair. The injured man reported feeling an electrical shock in his right leg. The two men were sitting approximately five feet apart. The injured man felt that his dog may have saved his life as the animal absorbed some of the electrical shock.
Western Jefferson County	30	1700-1710 EST			0	1	4	0	Severe Thunderstorm
									Thunderstorms moved into the Louisville area at around 5 p.m. EST and lasted approximately ten minutes. One, 74 year old woman was injured when a tree fell across the car she was driving. Several trees and large limbs fell on parked vehicles. Western Jefferson County suffered the most extensive damage, particularly around Shawnee Park. There, at the park, damage was sustained to between 25 to 30 trees that were either knocked down or uprooted in a 4 to 5 acre section of the 397 acre park. The park was closed through midday of July 1, 1986. Six thousand people lost electrical power through 6:30 p.m. EST primarily over southwest Jefferson County.
16 LOUISIANA									
St. Mary Parish	03	1530CST			0	0	?	0	Heavy Rain
									A heavy downpour caused the roof of a convenience store to collapse in Amelia.
Calcasieu Parish	08	0345CST			0	0	?	?	Heavy Rain
									10 1/2 inches of rain fell in Vinton between 0345CST-1645CST. A few homes and some roads were flooded.
Caddo, Bossier, Webster and Desoto Parishes	09	0200CST			0	0	7	?	Flash Flood
									4 to 6 inches of rain occurred in southern Caddo/Bossier, northern Desoto and western Webster Parishes between 0200CST-1100CST. There was widespread street flooding with some roads covered with up to 3 feet of water. Four large bridges washed out and some roads were undermined. It is estimated that it will cost \$3 million to replace the bridges and another \$1 million to repair weakened road beds. In addition, hundreds of automobiles were flooded. This caused another \$1/4 million loss. 111 homes and 25 businesses were flooded in the metropolitan Shreveport area; most of them had between 1 and 4 inches of water, however, 9 were inundated with 16 to 36 inches of flood water. Total damages to homes and businesses was estimated to be near \$1 million.
Tangipahoa Parish	19	1530CST			0	0	?	?	SVR TSTM - Wind
									A severe thunderstorm blew off a metal roof from a pavilion just west of Hammond, causing \$6,000-8,000 damage. The storm heavily damaged a feed and seed store about 1/2 mile away when strong winds blew off part of the business' roof. This caused the rest of the roof to collapse and allowed the rain to soak the store's merchandise.
Livingston Parish	22	1704CST			0	0	3	0	TSTM - Lightning
									Lightning caused fires which did \$2,000 damage to a home and \$1,000 loss to an apartment in Denham Springs.
Cameron Parish	26	0300CST			0	0	6	?	Hurricane Bonnie
									Hurricane Bonnie was a Saffir-Simpson Category 1 hurricane (winds 74-95 mph) which was moving northwest around 12 mph when it made landfall at the Sea Rim State Park, TX (near the TX/LA border) around 0500CST. Most of the storm damage was confined to the immediate coast along LA 27/82 west of Cameron to the state line. In particular, the community of Johnson's Bayou was hardest hit. Strong winds and a 3-4 foot-above-normal storm surge destroyed about 25 homes, trailers and fishing camps. Several miles of LA 27 were severely damaged by the surge. Estimated damage was in excess of \$400,000. 7,000 people evacuated lower Cameron Parish prior to landfall. In addition, some 8,000 workers fled their rigs in the Gulf of Mexico because of Bonnie.
Desoto Parish	27	0110CST	**300	25	0	0	4	?	Tornado (F1)
Caddo, Bossier and Desoto Parishes	27	0200CST		1	0	7	?	?	Tropical Depression Bonnie, Flash Flood, Flood
Webster Parish	27	1808CST	0.1	100	0	0	4	?	Tornado (F1)
Webster Parish	27	1822CST	0.3	200	0	5	5	?	Tornado (F2)
Webster Parish	27	1825CST	0.1	100	0	2	5	?	Tornado (F1)
Webster Parish	27	1840CST	0.1	100	0	0	4	?	Tornado (F1)
									Bonnie moved on a northerly course through east TX after landfall on 26 June before entering southwest AR on the 27th where it recurred to the northeast. There were five tornadoes associated with the remains of Bonnie. The first one occurred in the right front quadrant during the early morning; the remainder were spanned by two large thunderstorms which were embedded in the west-northwest flow in the left rear section. Most of the twisters were small. The first tornado destroyed an unoccupied mobile home near Grand Cane in northern Desoto Parish around 0110CST; it caused about \$40,000 damage. A small tornado did about \$15,000 damage to the roofs of three homes around 1/2 mile north of Springhill in northern Webster Parish about 1808CST. At 1822CST, a tornado destroyed three mobile homes and did extensive damage to three homes and two mobile homes 1 1/2 miles west of Springhill on LA 157. This twister was the most destructive; it caused about \$200,000 damage.
									In addition, it injured about 5 people. Around 1825CST, a tornado did about \$50,000 damage to five homes and injured two people near Cullen. The last tornado caused about \$15,000 damage to three homes near Shongaloo at 1840CST.
									5 to 10 inches of rain fell in a 10 to 14 hour period in Caddo, Bossier and northern Desoto Parishes, starting around 0200CST. Additional heavy rain fell in northeast TX along the TX/LA border. This rainfall maximum occurred along and 50 miles to the right of Bonnie's path. Extensive flash flooding was at its peak between 0500CST-0900CST. Shreveport had 50 major highway intersections barricaded by police due to flooding at one time. 1-20 was inundated with as much as 5 feet of water near Greenwood and was closed between Shreveport and the TX border. In addition, US 71 and LA 1 were cut by flash flooding. Several bridges washed out. One bridge on LA 526 in southwest Shreveport was destroyed for the second time in June when fast-moving, debris-laden Gilmer Bayou undermined its pilings. Some 400 people were evacuated at the height of the deluge; the majority were in the Shreveport area. Subsequent flooding of bayous and lakes developed 12 to 24 hours after the end of heavy rainfall. In particular, Cross and Wallace

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					KILLED	INJURED	PROPERTY	CROPS	
LOUISIANA									
									Lakes reached highest levels ever recorded. Cross Lake crested at 175.7 feet MSL around 2300GCT on 27 June. Some 80 homes along its shore were flooded. In addition, numerous boats were damaged when the rapidly rising lake crushed their decks against the roofs of boat houses. Wallace Lake peaked at 153.7 feet MSL early on 29 June. Overall, about 507 homes and 20 businesses flooded in Caddo, Bossier and northern Desoto Parishes. Of these, 381 homes and 20 businesses were damaged in the Shreveport area. In summary, flood waters did about \$4 million damage to roads and bridges, \$1/2 million damage to automobiles, \$5 million damage to homes and businesses and \$1/2 million damage to boats. Remarkably, there was only one death during this episode. A 64 year old fisherman drowned when strong winds overturned his boat on Cross Lake. M640.
17 MAINE									
Oxford County	01	1415EST			0	0	3	0	Severe Thunderstorm
									In Waterford, winds from a severe thunderstorm blew down trees.
Oxford County	01	1420EST			0	0	*4	C	Hail (1.75)
									Denmark reported golfball size hail fell during a severe thunderstorm.
Cumberland County	01	1420EST			0	0	*6	C	Severe Thunderstorm
									A severe thunderstorm with wind gusts estimated near 70 mph blew down trees and powerlines in Naples. Hail, ranging from one inch in diameter to grapefruit size (4 inches), pelted Sebago, Naples, and Casco. Damage was extensive from this storm. The hail broke house windows, dented cars, smashed windshields and headlights, and crashed through at least two house roofs. In Naples, the hail was 5 to 6 inches deep. Naples was without power for 5 hours, while parts of Sebago were powerless for 10 hours. The concentration of damage was along Route 302.
Cumberland County	01	1425EST			0	0	*6	C	Hail (1.00 to 4.0)
									Raymond and Windham reported hail from one inch in diameter to grapefruit size (4 inches), fell from a severe thunderstorm. Damage was extensive from this storm. The hail broke house windows, dented cars, smashed windshields and headlights, and damaged house roofs.
Cumberland County	01	1450EST			0	0	*5	C	Hail (1.5)
									Gray reported 1.5 inch diameter hail fell during a severe thunderstorm.
Cumberland County	01	1500EST			0	0	5	0	Hail (0.75 to 1.75)
									Freeport and Brunswick reported 3/4 inch diameter to pingpong ball size (1-3/4 inch) hail fell during a severe thunderstorm.
Cumberland County	01	1510EST			0	0	4	0	Hail (1.00)
									Cape Elizabeth reported one inch diameter hail fell during a severe thunderstorm.
York County	01	1645EST			0	0	4	0	Hail (1.00)
									Kennebunk reported one inch diameter hail fell during a severe thunderstorm.
Hancock County	01	1900EST			0	0	3	0	Lightning
									In Ellsworth, a lightning bolt struck a tree, then dug a trench in the ground, splitting rocks, before striking the foundation of a house. Only apparent damage to the house was several popped light bulbs.
York County	16	1245EST			0	0	4	0	Severe Thunderstorm
									In Shapleigh, winds from a severe thunderstorm blew down large branches and powerlines.
York County	16	1250EST			0	0	*4	C	Severe Thunderstorm
									Sanford and Alfred reported one inch to golfball size (1.75 inches) hail fell during a severe thunderstorm. Winds also blew down trees.
York County	16	1250EST			0	0	*6	C	Severe Thunderstorm
									Limington and Limerick reported marble size (1/2 inch) to golfball size (1.75 inch) hail fell during a severe thunderstorm. Winds also blew down trees.
York County	16	1250EST			0	0	4	0	Severe Thunderstorm
									In Waterboro, winds from a severe thunderstorm blew down trees.
MAINE									
Cumberland County	16	1255EST			0	0	5	0	Severe Thunderstorm
									Gorham reported 60 mph wind gusts during a severe thunderstorm which blew down trees onto and through Utility lines. The Gorham Police Station had their telephones knocked out for 3 hours. Also, the strong winds in this storm blew down trees in Standish and South Windham, causing power outages and blocked roads. In Portland, a decaying wharf at Cleaves Point on Long Island was torn away by the thunderstorm's winds, while a Columbia Road residence had about \$2,000 worth of damage to a chimney and small roof section from a lightning strike.
Somerset County	16	1320EST			0	0	*4	C	Severe Thunderstorm
									Hartland reported 3/4 inch diameter hail fell during a severe thunderstorm and winds blew down signs. At St. Albans, this storm produced one inch diameter hail and the winds blew down trees.
Penobscot County	16	1340EST			0	0	4	0	Severe Thunderstorm
									Corinna reported 60 mph wind gusts during a severe thunderstorm that blew down trees.
Penobscot County	16	1355EST			0	0	4	0	Severe Thunderstorm
									In Exeter and East Corinth, winds from a severe thunderstorm tore down large tree limbs and branches.
Aroostook County	16	1420EST			0	0	4	0	Severe Thunderstorm
									Trees were reported blown down by winds from a severe thunderstorm in Township 1 Range 5, Sherman and Benedicta.
Aroostook County	16	1430EST			0	0	4	0	Severe Thunderstorm
									Trees were reported blown down by winds from a severe thunderstorm in Moro Plantation, Hershey and Crystal.
Aroostook County	16	1440EST			0	0	4	0	Severe Thunderstorm
									Trees were reported blown down by winds from a severe thunderstorm in Glenwood Plantation, Township 3 Range 3, and Township A Range 2.
Aroostook County	16	1455EST			0	0	4	0	Severe Thunderstorm
									Trees were reported blown down by winds from a severe thunderstorm in Smyrna, Oakfield, and New Limerick.
Aroostook County	16	1500EST			0	0	4	0	Severe Thunderstorm
									Trees were reported blown down by winds from a severe thunderstorm in the Portage-Ashland area.
Aroostook County	16	1520EST			0	0	*3	C	Hail (0.75)
									Portage, Ashland, and Sheridan reported 3/4 inch diameter hail fell during a severe thunderstorm.
York County	16	1555EST			0	0	*5	C	Severe Thunderstorm
									In Lebanon, winds from a severe thunderstorm tore down large tree branches and powerlines. A lightning bolt knocked windows out of a home in Lebanon and started a fire that destroyed an adjoining shed. This storm produced 3/4 inch diameter to golfball size (1.75 inch) hail in Berwick and North Berwick.
Androscoggin County	17	Morning			1	2	4	0	Wind
									Non-convective high winds blew an old tree onto a car in Lewiston. The tree was 3 feet wide and snapped off 4 or 5 feet from the ground and struck the front end of the car and windshield, coming in through the front. A 25-year-old mother died in the hospital later in the day from injuries sustained in the accident. Her 3-year-old daughter and 9-year-old son were passengers and were also injured in the accident.
Kennebec County	28	2300EST			0	0	*3	3	Severe Thunderstorm
									In Palermo, winds from a severe thunderstorm uprooted or damaged 75 trees in a fruit orchard and shredded corn and bean fields.
Hancock County	28	2355EST			0	0	*4	C	Severe Thunderstorm
									In Castine, winds from a severe thunderstorm took down major trees, the rains caused minor driveway washouts and small hail damaged gardens.
Oxford County	29	1725EST			0	1	3	0	Severe Thunderstorm
									In the Brownfield-Hiran area, winds from a severe thunderstorm blew down trees. A 23-year-old male motorcyclist was seriously injured when his cycle struck a tree that had fallen across Route 160 in Brownfield.
York County	29	1730EST			0	0	4	0	Severe Thunderstorm
									In the Acton-Newfield area, winds from a severe thunderstorm blew down trees, one of which fell on an unoccupied car in Acton.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 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	
MAINE									
Androscoggin County	29	1730EST		0	0	4	0		High Winds
									Strong non-convective winds developed about 1 to 1½ hours after a line of thundershowers had passed. These winds blew down trees in Poland, one of which fell on a cottage.
York County	29	1745EST		0	0	3	0		Severe Thunderstorm
									In Limerick, winds from a severe thunderstorm blew down trees.
Kennebec County	29	1750EST		0	0	4	0		High Winds
									Strong non-convective winds developed about 1 to 1½ hours after a line of thundershowers had passed. Augusta recorded wind gusts to 60 mph (52 kts) which blew down trees. New Auburn also reported trees down from these winds.
York County	29	1750EST		0	0	4	0		Severe Thunderstorm
									In Waterboro, Alfred, and Lyman, winds from a severe thunderstorm blew down trees.
York County	29	1815EST		0	0	4	0		Severe Thunderstorm
									In the Arundel-Kennebunkport area, winds from a severe thunderstorm blew down trees.
Penobscot County	29	1855EST		0	0	4	0		Severe Thunderstorm
									In Orrington, winds from a severe thunderstorm blew down trees.
Hancock County	29	1855EST		0	0	4	0		Severe Thunderstorm
									In Bucksport-Orland area, wind gusts estimated to 75 mph from a severe thunderstorm, blew down trees. One inch diameter hail was reported too.
18 MARYLAND and D.C.									
Anne Arundel County	12	1500EST		0	1	5	0		Lightning
									A heavy thunderstorm crossed the county on Thursday afternoon, causing fires, power outages, a traffic death, an emergency airplane landing and numerous reports of lightning strikes. A 30 year old Pasadena man was slightly injured when he was apparently struck by lightning in Millersville. The radar system at Baltimore-Washington International Airport was struck by lightning and remained out of service for several days. Minor flooding accompanied the brief downpour.
19 MASSACHUSETTS									
MAZ007 Norfolk County, Holbrook	01	0005EST		0	0	3	0		Lightning
									Lightning struck a house, knocking a hole in the roof and wall, and doing some minor damage to the interior.
MAZ001 Middlesex County, Methuen-Lawrence	01	1900EST		0	0	?	0		Hail (1.0)
									Large hail was reported during a heavy thunderstorm. No reports of damage have been received.
MAZ005 Hampshire County, N. Amherst	01	2030EST		0	0	?	0		Thunderstorm winds
									Winds gusting to around 50 mph were reported, but no damage reports were received. Heavy thunderstorms moved through the area.
MAZ003 Barnstable County, Bourne	02	0545EST		0	0	4	0		Lightning
									A bolt of lightning struck a home's TV antenna, traveled to the basement of the house, and started a fire that severely damaged the home. Damage was estimated at \$40,000.
Central and East Massachusetts	05- 06	Evening All day		0	0	0	0		Heavy Rain
									Heavy rain with amounts of 4 to 8 inches over a 24 to 36 hour period resulted in street and basement flooding in parts of the region. While no reports of damage were received, there were some scattered power outages.
MAZ006 Berkshire and Hampshire Counties	16	2200- 2300EST		0	0	3	0		Thunderstorm winds
									Gusty thunderstorm winds knocked down trees in several communities. The most tree damage was reported from Middlefield where some large trees were uprooted along a swath 0.3 of a mile long and 200 yards wide. Some houses were damaged by falling trees. Scattered power outages affecting several thousand electric customers were reported from Dalton, Richmond, Hinsdale, and Pittsfield. Another area of fallen trees was reported from Chester.
MASSACHUSETTS									
MAZ003 Dukes County, Edgartown	24	Afternoon		0	0	3	0		Lightning
									Heavy thunderstorms moved across the island of Martha's Vineyard. A lightning strike blew a hole in a roof and damaged an electrical system.
Bristol County, Westport	29	1430EST		0	4	0	0		Lightning
									A bolt of lightning struck at a campground at Horseneck Beach, injuring four campers as they were working on a trailer awning. One of the men required first aid to restore his heartbeat. A radio antenna on the trailer may have acted as a lightning rod.
Dukes County, Vineyard Haven	29	1530EST		0	0	0	0		Thunderstorm winds
									A sudden-but-brief thundersquall hit Vineyard Haven, capsizing a 27-foot sailboat. Four persons were rescued after the boat sank. Winds were estimated to have reached 40 to 60 mph in the brief gusts. Very heavy rain and some small hail accompanied the squall.
20 MICHIGAN									
Macomb County, Mt. Clemens	01	1430EST		0	0	0			Hail (0.75)
Oakland and Macomb Counties	11	1230EST		0	0	6			Thunderstorm
									Heavy rain damaged Silverdome Stadium. Lightning damaged 2 houses. Several freeways were closed by flooding, and many cars were submerged. Power lines were disrupted by lightning and wind. Funnel clouds were reported at White Lake and near Fraser.
Muskegon County, 5 miles west of Ravenna	11	1922EST		0	0	0			Hail (1.00)
									There was also some wind damage in the area.
Newaygo County, Just northwest of Newaygo	11	1922EST		0	0	0			Hail (1.00)
									Trees and wires were downed by wind in the vicinity.
Kent County	11	1945EST		0	0	4			Thunderstorm
									Streets were flooded and power was out in the Grand Rapids area. There were 5 reports of funnel clouds. The Sheriff reported a tornado in the northwest part of the county, but no damage could be found.
Barry County, Hastings	11	1945EST		0	0	4			Thunderstorm
									Trees and power lines were blown down. Telephone service was disrupted for 6 hours. A funnel cloud was reported in the vicinity.
Baton County, Delta Twp.	11	2015EST		0	0	6	?		Flash Flood
									30 persons were evacuated. Hundreds of homes were damaged by flooding and washouts.
Newaygo County 4 miles east of Hesperia	11	2015EST		0	0	4			Thunderstorm
									Trees and wires were blown down. Funnel cloud seen in the vicinity did not touch down. There was also wind damage at nearby Grant and Fremont.
Ingham County, Lansing	11	2030EST		0	0	6	?		Flash flood
									70 persons were evacuated, 400 basements flooded, several basements caved in, and 22 roads washed out.
Lapeer County	11	2115EST		0	0	4			Thunderstorm
									Trees and wires were blown down in the southern and eastern parts of the county. 2 vehicles were destroyed in the collapse of an auto sales building in Burnside.
Cass County, Cassopolis	19	2240EST	1.3	700	0	0	6		Tornado (F2)
									24 houses were damaged, 6 extensively. Many trees were snapped off or uprooted, blocking streets. Several cars were damaged. Trees fell in different directions.
Oakland County, Pontiac	22	1652EST		0	0	0			Wind (55)
Oakland County, Waterford	22	1712EST		1	3	0			Lightning
									Golfers took refuge from rain under a tree. 024M.
Macomb County, St. Clair Shores	22	1730EST		0	3	0			Lightning
									Picnickers placed a metal grill under a tree.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1986

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					KILLED	INJURED	PROPERTY	CROPS	
MICHIGAN									
Alpena County, West of Ossineke	23	1835EST			0	0	3		Wind (50)
									Trees and wires were blown down along a narrow track through a wooded area.
Benzie County, Thompsonville	26	1625EST	0.7	20	0	0	3		Tornado (F1)
									2 mobile homes were flipped over. Falling trees smashed several vehicles and blocked roads. The funnel was seen. A funnel aloft was reported at Interlochen, 16 miles to the northeast, at 1700EST.
MINNESOTA									
Aitkin Co. IE Hill City	05	1615CST			0	0	5	5	Thunderstorm wind
									A severe thunderstorm moved southeast through northern Aitkin County producing strong winds that downed hundreds of trees. Downed trees blocked a highway and damaged cars and resort buildings. Hail was piled six inches deep in some areas.
Carlton Co. Barnum	03	1839CST			0	0	0	0	Thunderstorm wind
									High wind from a thunderstorm downed numerous trees.
Wrenshall	03	1845CST			0	0	4	0	Thunderstorm wind
									A roof was blown off a house and trees were downed in Wrenshall Township.
Chisago Co. Chisago City	10	1545CST			0	0	4	0	Thunderstorm wind
									Thunderstorm winds downed power lines in Chisago City and Lindstrom.
Chisago Lakes Area	10	1545CST			0	0	3	0	Thunderstorm wind
									Wind, 60 mph, did minor damage in the Chisago Lakes area.
Le Sueur Co. Le Center	10	1845CST			0	0	0	0	Hail (1.75)
									Golfball size hail was reported in Le Center.
Renville Co. and SW Sibley Co.	15	1720CST			0	0	0	5	Hail (2.0)
									Hail-producing thunderstorms damaged crops across Renville County, generally south of Highway 212, to the Gibbon area in southwest Sibley County. Hail up to 2 inches in diameter and driven by winds caused considerable damage east and southeast of Fairfax. Golfball size hail was reported at Olivia at 1745CST and between Hector and Buffalo Lake at 1815CST.
Nicollet Co.	15	1830CST			0	0	5	0	Thunderstorm wind
									Thunderstorm wind caused widespread property damage across Nicollet County. Farms and homes in Lafayette, Bernadotte, Klossner and Courtland suffered wind damage as branches and trees were downed at almost every location. A 58 x 63 foot, steel machine shed in Brighton Township was lifted by the wind and scattered across a field with the machinery inside left untouched. Shortly after 1900CST, a power transmission pole near Lafayette was snapped.
Wright Co. Buffalo	15	1900CST			0	0	0	0	Hail (1.75)
									Golfball size hail was reported just south of Buffalo.
Nicollet Co. 3N North Mankato	15	1930CST	3	100	0	0	3	0	Tornado (F1)
									A tornado moved from 5 miles northwest to 3 miles north of North Mankato and passed about 1 mile north of the Mankato Municipal Airport. The tornado knocked down a number of trees and caused minor damage to several buildings.
Waseca Co.	15	2035CST			0	0	0	0	Hail (1.75)
									Golfball size hail was reported between Waldorf and New Richmond.
Freeborn Co.	15	2045CST			0	0	0	0	Funnel
									A funnel cloud was sited near Hartland.
MINNESOTA									
Clay Co. Downer	17				0	0	3	0	Flash Flood
									A downpour from a thunderstorm washed out some county roads in Clay County. Near Downer, water went over a county road with such force that it snapped off corner posts to a fence and flattened a section of the woven wire fence. Sixty-nine chickens were drowned in a chicken coop. Rainfall at Downer was 4.75 inches.
Grant Co. Elbow Lake	17	1430CST			0	0	?	?	Hail (0.75)
Hoffman	17	1445CST			0	0	?	?	Hail (0.75)
Northwest Pope Co.	17	1455CST			0	0	?	?	Hail (1.75)
Douglas Co. Kensington	17	1457CST			0	0	?	?	Hail (1.75)
SN Garfield	17	1458CST			0	0	0	0	Funnel
Pope Co. Glenwood	17	1510CST			0	0	?	?	Hail (1.75)
Lake Minnewaska	17	1635CST			0	0	?	?	Hail (1.75)
									Hail dented cars, shattered windows, damaged roofs and pummeled crops across Grant, Douglas and Pope Counties.
Sibley Co. Arlington	17	1747CST			0	0	?	0	Hail (3.0)
Clay Co. Moorhead	17	2235CST			0	0	0	0	Hail (2.0)
									Hail from golfball size to 2 inches in diameter was reported just south of Moorhead.
Douglas Co. Ashby	18	0000CST			0	0	4	0	Hail (2.0)
									Two-inch diameter hail dented cars and pounded gardens around Ashby.
Alexandria	18	0016CST			0	0	?	?	Hail (2.5)
									Hail up to 2½ inches in diameter fell over a one square mile area.
Meeke Co. Watkins	18	0110CST			0	0	0	0	Hail (0.75)
Marshall Co.	18	2250CST			0	0	4	0	Thunderstorm wind
									Thunderstorm wind caused property damage at several farms in the Argyle-Stephen area. At one farm site, a grain storage bin was torn from its foundation, banged into the side of a machine shed, and carried 700 feet before coming to rest on the other side of a shelter belt.
Renville Co. 4SE Bird Island	20	1500CST			0	0	4	0	Thunderstorm wind
									Winds destroyed a 100 x 40 foot machine shed at one farm site and ripped the doors off another machine shed on an adjacent farm.
Mille Lacs Co. 6S Milaca	20	1805CST	Short 10-20		0	0	4	0	Tornado (F1)
									A tornado touched down briefly at a farm site 6 miles south of Milaca, destroying a barn and uprooting trees.
Douglas Co. Kensington	21	1430CST	Short 10-20		0	0	0	0	Tornado (F0)
Brandon Township	21	1430CST			0	0	3	0	Thunderstorm wind
Hoffman	21	1435CST			0	0	0	0	Hail (1.75)
									A tornado touched down in southwest Douglas County near Kensington. An observer reported its appearance as a whirling cloud of dust in an open field. Winds knocked over utility poles in southern Brandon Township. Golfball size hail was reported near Hoffman.
Wadena Co. Verndale	21	1500CST			0	0	4	0	Lightning
									Lightning struck the Verndale school complex, causing extensive damage to the roof as well as classrooms and administrative offices.

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					KILLED	INJURED	PROPERTY	CROPS	
MINNESOTA									
Koochiching Co. 2E International Falls	21	1533CST			0	0	0	0	Hail (1.0)
10E International Falls	21	1545CST			0	0	0	0	Hail (0.75)
Stevens and Pope Counties Hancock	21	1545CST			0	0	3	0	Thunderstorm wind
Glenwood	21	1613CST			0	0	0	0	Thunderstorm wind
A line of intense thunderstorms crossed Stevens and Pope Counties with damaging winds from mid to late afternoon. Many trees were knocked down, including 12 in one area near Glenwood. A camper was flipped over and windows were broken around Hancock.									
Southern St. Louis and Carlton Counties 10S Floodwood	21	1620CST	2	30-50	0	0	3	0	Tornado (F1)
Floodwood	21	1625CST			0	0	0	0	Hail (1.5)
Atkinson	21	1640CST	0.5	30-50	0	0	3	0	Tornado (F1)
Cloquet	21	1650CST			0	0	0	0	Hail (1.5)
Esko	21	1655CST			0	0	?	0	Thunderstorm wind (52)
Duluth Harbor	21	1710CST			0	0	?	0	Thunderstorm wind (74)
Duluth Airport	21	1712CST			0	0	?	0	Thunderstorm wind (60)
At 1620CST, a tornado was sited at Prairie Lake moving east. At 1625CST near the same location, the tornado took on the configuration of three separate funnels. Numerous trees were snapped and the tornado sounded like a freight train. Another tornado touched down at 1640CST, eight miles southwest of Carlton in the vicinity of Atkinson. This tornado uprooted trees and tore a window out of a home. There were widespread power outages in Duluth and in the surrounding communities. Many roads were blocked by fallen trees or damaged by washouts. Numerous buildings and automobiles were crushed by falling trees. At 1710CST, all of West Duluth was without power. Planes at the Sky Harbor Airport were blown like paper in the wind. Three planes were destroyed and seven were damaged. Three ore carriers were blown 2 to 3 miles across St. Louis Bay, and a fourth ship broke away from a Duluth dock and became grounded on Park Point. A home in Scanlon was shifted on its foundation. Roofs were blown off a home and several mobile homes in West Duluth. Several riverfront and offshore businesses in Duluth received structural damage from the St. Louis River and Lake Superior. Six people were marooned on an island in the St. Louis River. The Duluth and Cloquet Public Works Departments said the windstorm caused the largest cleanup job in 25 years.									
Morrison Co. 4N Little Falls	21	1658CST			0	0	0	0	Funnel
Kandiyohi Co. Willmar	21	1744CST			0	0	0	0	Thunderstorm wind (52), Hail (0.75)
Sherburne Co. 5W Princeton	21	1815CST			0	0	0	0	Hail (0.75)
Hennepin Co. Minneapolis	21	1849CST			0	0	0	0	Thunderstorm wind (52)
Sixty mile per hour winds were reported from the Metrodome.									
Robbinsdale	21	1850CST			0	0	3	0	Thunderstorm wind
Thunderstorm winds knocked down many trees in Robbinsdale. Two garages were crushed and a boat was damaged by falling trees.									
Renville Co. Buffalo Lake	21	2015CST			0	0	0	0	Hail (0.75)
Dime size hail was reported from Buffalo Lake.									
Rock Co.	21	2030CST			0	0	0	6	Hail (1.0)
Hail damaged 75 square miles of crops and covered 20 percent of the ground over a 7 mile wide path through Rock County. The majority of the damage occurred in southern Rose Dell, Denver, northern Springwater, Mound and Vienna Townships.									
MINNESOTA									
McLeod Co.	21	2120CST			0	0	0	4	Hail
Hail damaged 300 acres of crops northwest of Brownton and in the Stewart area.									
Southern Nicollet and Blue Earth Counties	21/22				0	0	5	0	Flash Flood
Heavy rain, early Saturday morning and again from late Saturday into early Sunday, caused numerous mudslides in and around the Mankato area. Rainfall of 6.52 inches fell 4 miles east of Lake Crystal, and 5.35 inches were recorded in the city of Mankato. There were washouts along county roads in Nicollet County. Some streets and basements were flooded in Mankato.									
Freeborn Co. SSW Alden	22	0115CST	Short	50	0	0	2	0	Tornado (F0)
A tornado twisted off trees, tore shingles off a barn and broke windows at two farm sites 5 miles southwest of Alden.									
Anoka Co. St. Francis and Bethel	23	1425CST			0	0	0	0	Hail (1.75)
Marble to golfball size hail was reported from St. Francis and Bethel.									
Hennepin Co. Golden Valley	23	1458CST			0	0	0	0	Hail (1.75)
Golfball size hail was reported from Golden Valley.									
Ramsey Co. New Brighton	23	1517CST			0	0	0	0	Hail (1.0)
Shoreview	23	1517CST			0	0	0	0	Hail (1.0)
Moundsview	23	1530CST			0	0	0	0	Hail (1.0)
Koochiching Co.	26	1530CST			0	0	0	0	Hail (1.0)
Hail 3/4 to 1 inch in diameter was reported just to the west of Nett Lake.									
St. Louis Co.	26	1530CST			0	0	0	0	Thunderstorm wind, Hail (1.0)
Thunderstorms in northwestern St. Louis County dropped 3/4 to 1 inch hail between Orr and Cook. Numerous trees were also knocked down to the west and northwest of Vermilion Lake.									
Itasca Co. Max	26	1620CST			0	0	0	0	Thunderstorm wind
Thunderstorms knocked down numerous trees around Max in northern Itasca County.									
Ottertail Co. Erhard	26	1630CST	Short	10-20	0	0	0	0	Tornado (F0)
A tornado touched down briefly south of Erhard.									
Pelican Rapids	26	1637CST	0.3	10-20	0	0	0	0	Tornado (F0)
A tornado was observed to the southwest of Pelican Rapids from Highway 108. The tornado was described as a long white rope that twisted horizontally before extending to the ground.									
Wilkin Co. Rothsay	26	1645CST	1.0	20	0	0	4	?	Tornado (F1)
At 1639CST, two funnel clouds were spotted two miles north of Rothsay. One of these funnels touched down at 1645CST and tore 70 feet of roof off a turkey barn. The tornado traveled southeast leaving a trail of damage through a cornfield. Photographs of the tornado were published in a local paper.									
Nobles Co. Ellsworth	28	0400CST			0	0	0	0	Hail (1.75)
Golfball size hail was reported at Ellsworth.									

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					KILLED	INJURED	PROPERTY	CROPS	
22 MISSISSIPPI									
Corinth, Alcorn County	8	1530CST			0	0	4	0	Flash Flood
	Two to three inches of rain fell in Corinth in a 45 minute period. Numerous portions of the city were flooded including streets, low lying areas, and some buildings along Business 45. Several women had to be rescued from a car when they had attempted to go through high waters.								
Brandon, Rankin County	16	1430CST			0	0	?	0	Hail (.75)
	Penny size hail fell in Crossgates, a subdivision in western Brandon.								
Picayune, Pearl River County	16	1505CST			0	0	?	0	Hail (1.25)
	Half dollar size hail fell in Picayune.								
Western Harrison County	18	1845CST			0	0	4	0	Thunderstorm Winds
	High winds blew down trees and power lines in extreme western Harrison County, or about 10 miles north of Bay St. Louis.								
Pascagoula and Moss Point, Jackson County	19	1625CST			0	0	4	0	Thunderstorm Winds
	Thunderstorm winds of 60 to 70 mph in Moss Point and Pascagoula blew down trees, power lines, billboards and other smaller objects.								
Leland, Washington County	24	1515CST			0	0	4	0	Thunderstorm Winds
	High winds blew down numerous trees and power lines in the Leland Community.								
Cleveland, Bolivar County	24	1700CST			1	0	0	0	Lightning
	A group of young men were playing basketball when a thunderstorm moved into the Cleveland area. All but one of the men ran off the court due to the intense lightning and thunder. The other man, however, took shelter under a tree. Lightning struck the tree and the man. The victim was pronounced dead at the scene of the lightning strike. M200								
23 MISSOURI									
Boone County	6	1600CST			0	0	0	0	Funnel Cloud
	A large wall cloud and funnel developed from a tropical-like storm. The funnel was visible for several minutes from the National Weather Service Office in Columbia. Photos were taken of the very distinct funnel. The funnel did not touch down, but was impressive.								
Pemiscot County (Micola)	9	1430CST	1/2	50	0	0	3	0	Tornado (F1)
	A tornado blew a roof off a house and shed in Micola.								
Pemiscot County (west of Steele)	9	1450CST	1/2	75	0	0	0	0	Tornado (F1)
	The Missouri Highway Patrol reported a tornado on the ground 5 miles west of Steele. No damage was reported.								
Pemiscot County (west of Caruthersville)	9	1505CST	1/4	50	0	0	?	?	Tornado (F1)
	A tornado was reported 5 miles west of Caruthersville. No damage was reported.								
Pemiscot County (northeast of Caruthersville)	9	1545CST	1/2	50	0	0	0	0	Tornado (F1)
	A tornado was reported by the Missouri Highway Patrol to be 6 miles north of Caruthersville.								
DeKalb County	10	1840CST			0	0	0	0	Wind
	An ASCS observer reported winds of at least 60 mph at Amity.								
Clinton County	10	1845CST			0	0	5	2	TSTM Wind
	A severe thunderstorm produced wind damage in Plattsburg and Cameron. Trees were uprooted in Plattsburg, with some falling into houses. An airplane was turned over in Cameron. A roof was blown off a house 6 miles northeast of Plattsburg.								
Jasper and Barton Counties (Joplin area)	10	1903CST			0	0	4	0	TSTM Wind
	A severe thunderstorm with strong winds damaged trees and power lines at Joplin and Lamar.								
Ray County (in Richmond)	10	1908CST			0	0	0	0	Wind
	Winds exceeded 60 mph in Richmond.								
Jasper and Newton Counties (south of Joplin)	10	1940CST			0	0	5	0	TSTM Wind
	Wind damage was reported on the Newton-Jasper county line just south of Joplin.								
MISSOURI									
Newton County (Diamond)	10	2030CST			0	0	4	0	TSTM Wind
	Thunderstorm winds damaged trees and power lines at Diamond.								
Macon County (Macon)	10	2110CST			0	0	4	0	TSTM Wind
	Thunderstorm winds blew down trees near Macon.								
Lincoln County	14	1540CST			0	0	0	4	Hail (1.50)
	Hail to 1 1/2 inch diameter destroyed corn in and around Silex which is north of Troy.								
Pike County	14	1700CST			0	0	4	0	TSTM Wind
	A severe thunderstorm went through extreme southeast Pike County and downed limbs and power lines in Annada. A two mile section of Highway 79 was closed overnight. The sheriff reported that some silos fell during the storm.								
Clay County (north Kansas City)	18	1533CST			0	0	0	0	Hail (1.25)
	Hail to 1 1/4 inch diameter at 104th and Forest was reported.								
Clay County (north Kansas City)	18	1545CST			0	0	0	0	Hail (1.25)
	Hail to 1 1/4 inch diameter at 72nd and N. Oak was reported.								
Clay County (Nashua)	18	1610CST			0	0	0	0	Hail (0.75)
	Hail to 3/4 inch diameter was reported in Nashua, which is just north of Gladstone.								
Clay County (Gladstone)	18	1650CST			0	0	?	?	Hail (1.75)
	Hail to 1 3/4 inch diameter at 89th and N. Oak was reported.								
Scotland County	28	1315-1330CST			0	0	4	0	TSTM Wind
	A severe thunderstorm produced damaging wind in the eastern portion of Scotland County. A roof was blown off a barn just north of Arbela.								
24 MONTANA									
Sanders and Lake Counties	04	Late Afternoon			0	0	4	6	Hail
	Large hail (1.00) fell across extreme east Sanders County and north Lake County, causing much damage to grain and hay crops. Some damage was done to homes and cars, mostly broken windows. The hail lasted 15 to 25 minutes.								
Hill County	06	1530MST	?	?	0	0	?	?	Tornado (FO)
	A tornado touched down briefly in open country 30 miles north of Havre.								
Big Horn County	08	1400MST			0	0	4	0	Flash Flood
	Flood waters washed out a 40 foot culvert and closed State Highway 314 about 5 miles south of Kirby.								
Musselshell County	08	1630MST			0	0	4	2	Flash Flood
	Heavy rains over the eastern Bull Mountains which were denuded by fire in 1984, closed Highway 87. Water 4 feet deep flowed across the highway for 300 feet, 21 miles south of Roundup.								
Carter County	08	1700MST			0	0	2	5	Flash Flood
	Four to five inches of rain destroyed a large trailer home (12x68), flooded a home nearby that was built 90 years ago, and washed out the Jock Sanburn Reservoir on Belle Creek south of Hammond.								
Toole, Liberty, and Hill Counties	17	1815MST			0	0	3	4	Hail
	17 1930MST Thunderstorm wind								
	Strong winds and hail (1.00) damaged grain crops in Toole, and Liberty Counties. 60 MPH winds in and around Havre took a roof off a mobile home and blew down numerous power poles in north Hill County.								
North Prairie County	20	2230MST			0	0	3	5	Hail
	Hail (1.00) and winds destroyed over 1500 acres of crop and hay.								
Garfield County	29	0015MST			0	0	5	3	Flash Flood
	Heavy rains washed out portions of Montana 200 east of Jordan.								

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1986

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

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

MONTANA

McCone County	29 0200MST	0	0	4	3	Thunderstorm Wind Winds in excess of 60 MPH caused damage in and around the Circle area. High water on the Redwater River caused some damage to the ball park in Circle.			
Dawson County	29 0300MST	0	0	5	5	Flash Flood			
	29 0300MST	0	0	-	-	Hail			
	29 0400MST	0	0	5	3	Thunderstorm, Winds Heavy rain and large hail (1.75) washed out many culverts and approaches to bridges in western Dawson County. The rain decreased some as the storm moved east, but the winds increased. Four high-voltage transmission towers, 80 feet tall, were twisted to the ground; other wind damage to mobile homes and the fairgrounds occurred in Glendive.			
Wibaux County	29 0430MST	0	0	4	4	Thunderstorm Wind Northern portions of Wibaux County were hard hit by winds in excess of 70 MPH and some hail. Grain crops and hay were destroyed as well as 40 power poles. Some small areas received 4.5 to 5 inches of rain.			
Teton County	29 1000MST	?	?	0	0	?	?	Tornado (F0) A very small tornado touched down briefly 5 miles west of Pendroy.	

25 NEBRASKA

Dodge County	04 1515CST	0	0	3	4	Flash Flood Three inches of rain in less than an hour caused urban flash flooding in south Fremont with water 2 feet deep stalling some vehicles in streets. Runoff also damaged crops.			
Red Willow County	04 1600CST-1700CST	0	0	5	4	Flash Flood 3.8 inches of rain fell in less than one hour at McCook. Water was reported 4 feet deep in some city streets, stalling vehicles. A railroad trestle and tracks were damaged and water was reported in basements. Small creeks flooded and crops were damaged.			
Jefferson County	04 1800CST	0	0	1	4	Flash Flood Four inches of rain in less than one hour caused crop damage around Powell and Gladstone.			
Dakota County	05 0010CST	0	0	1	0	Thunderstorm Wind Wind took a portion of the roof off the horse barn at the Dakota City race track.			
Keith County	06 1540CST	0	0	3	1	Hail (1.25) One and a quarter inch hail just southeast of Ogallala broke a few windows in a lumber yard.			
Lincoln County	06 1716CST	0	0	5	0	Thunderstorm Wind Wind gusts to 59 m.p.h. were measured at the North Platte (51) airport. The winds blew down large trees in Cody Park and broke numerous tree limbs in town. Power lines were also downed.			
Keya Paha County	06 1950CST	0	0	4	4	Hail (1.50) One and a half inch hail fell 22 miles northwest of Springview, and also 9 miles north and 9 miles west. Damage to farm buildings, houses, a car, and crops occurred.			
Buffalo County	06 1920CST	0	0	4	0	Thunderstorm Wind Strong winds damaged a mobile home near Odessa.			
Scottsbluff County	07 2030CST	0	1	0	1	Tornado (F0) A small tornado touched down briefly near Henry, causing no reported damage.			
Scottsbluff, Morrill, Banner, Kimball, Cheyenne, and Deuel Counties	08-10 Afternoon	0	0	6	5	Flood General 2 to 3 inches of rain with heavier pockets of 4 to 7 inches fell over the area during the period. Considerable ponding of water occurred in low-lying areas and many county roads turned to quagmires. Urban flooding was reported and a number of creeks filled to capacity. At Gering on the evening of the 8th, a 50 foot section of irrigation ditch washed out allowing water to flow into basements and damage roads. On the 10th, two day rainfalls of around 6 inches northwest of Lodgepole forced Lodgepole Creek out of banks at Lodgepole, and water surrounded 25 homes.			
Perkins County	09 2005CST	0	0	0	0	Funnel Cloud A funnel cloud was reported 6 miles south of Grant.			
Custer County	10 1352CST	0	0	5	5	Thunderstorm Wind (65) Wind gusts to 75 m.p.h. and half inch hail were reported just north of Broken Bow. Damage to buildings, vehicles and crops occurred.			

NEBRASKA

Adams and Clay Counties	10 1930CST	2	50	0	0	3	3	Tornado (F1) A tornado touched down about 2 miles west and southwest of Glenville and moved northeast for 2 miles. Damage to some trees, crops and fences occurred.	
Seward County	10 2030CST	0	0	3	5	Thunderstorm Wind (60) Winds estimated to 70 m.p.h. and quarter to half inch hail damaged a farm home 2 miles south of Goehner. The wind and hail also damaged crops in a band half mile wide and 2 miles long.			
Scottsbluff, Morrill and Garden Counties	12-30 Morning-Afternoon	0	0	2	4	Flood Runoff from heavy panhandle rains, the 8th to the 10th, coupled with high releases from Wyoming reservoirs caused lowland flooding along the North Platte from Stateline to Lake McConaughy.			
Scottsbluff County	12 1850CST	0	0	1	3	Hail (1.5) One and a half inch hail fell 10 miles northwest of Scottsbluff, damaging crops.			
Morrill County	12 2007CST-2054CST	0	0	2	3	Hail (1.5) One and a half inch hail was reported around Bayard and Bridgeport with damage to crops and a few vehicles.			
Kimball County	13 1920CST	0	0	?	0	Thunderstorm Wind (52) Wind gusted to 60 m.p.h. near Kimball. No reported damage occurred.			
Cuming, Burt, Dodge, and Washington Counties	13-14 2130CST-0700CST	0	0	4	6	Flash Flood Three to five inches of rain fell in a band from West Point to Tekamah, washing out crops, flooding fields and damaging some roads. Basements flooded at West Point and Tekamah. Silver Creek broke through a dike 3 miles north of Tekamah as trees and other debris clogged the channel. Highway 75 and farmland flooded. Logan Creek went out of banks at Oakland and Uehling, and Maple Creek swelled to bankfull in Dodge County. Pebble Creek also went out of banks at Snyder. Park and farmland flooded around Oakland and Herman.			
Dawson County	15 1700CST	0	0	4	5	Thunderstorm Wind and Hail (1.5) Hail to 1½ inches and strong winds severely damaged crops and destroyed a barn along a 7 mile wide and 20 mile long path to the west and north of Cozad.			
Custer County	15 1718CST	0	0	0	0	Hail (0.75) Three-quarter inch hail fell 7 miles northeast of Sargent. No reported damage occurred.			
Custer County	15 1745CST-1810CST	0	0	1	4	Hail (3.00) One and a half to three inch hail fell in the vicinity of Callaway, damaging crops.			
Madison County	15 1945CST-2045CST	0	0	5	5	Thunderstorm Wind and Hail (1.5) One inch hail fell 11 miles northwest of Newman Grove at 1945CST, damaging crops, farm buildings and cars. Winds blew down trees and power poles in Madison at 2032CST. One and a half inch hail 6 miles south of Norfolk at 2045CST damaged buildings, cars and crops.			
Frontier County	15 1955CST	0	0	1	4	Hail (1.5) One and a half inch hail damaged crops around Eustis and Farnam.			
Adams County	15 2010CST	0	0	?	0	Thunderstorm Wind (52) Wind gusted to 60 m.p.h. at Hansen. No reported damage occurred.			
Keya Paha County	19 2040CST	0	0	4	4	Hail (1.5) One and a half inch hail fell 1 mile north, 5 miles north and 9 miles north of Springview, damaging cars, houses, farm buildings and crops.			
Platte County	20 1530CST	0	0	4	3	Thunderstorm Wind Winds damaged a small grain shed and trees, and blew grain bin covers off at a farm 3 miles south and 1 mile north of Newman Grove.			
Thayer County	20 1700CST	0	0	4	4	Thunderstorm Wind (60) and Hail (1.5) Winds to 70 m.p.h. and 1½ inch hail damaged trees and crops near Davenport.			
Keith County	21 1815CST	0	0	?	0	Thunderstorm Wind (56) Sixty-five m.p.h. wind gusts were reported at Lemoyne on the north side of Lake McConaughy. No reported damage occurred.			
Keith County	21 1819CST	0	0	0	0	Funnel Cloud Funnel clouds were sighted 6 miles west of Lemoyne.			
Hooker County	21 1859CST	0	0	4	0	Thunderstorm Wind (60) Wind gusts estimated to 70 m.p.h. uprooted trees and downed power lines at Mullen.			

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1986

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					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	
NEBRASKA											
Lincoln County	21	1900CST			0	0	?	0			Thunderstorm Wind (52) Sixty m.p.h. wind gusts were reported at Sutherland. No reported damage occurred.
Keith County	21	1905CST			0	0	4	0			Thunderstorm Wind Wind gusts damaged the roof of the catholic church at Paxton.
Hooker County	21	1915CST	0.2	20	0	0	3	1			Tornado (F1) A small tornado 5 miles south of Mullen uprooted trees as it moved east.
Custer County	21	1920CST			0	0	3	1			Thunderstorm Wind (60) Wind gusted to 70 m.p.h. at Callaway, doing some damage to trees and signs.
Thomas County	21	1935CST			0	0	3	1			Thunderstorm Wind (60) Wind gusted to 70 m.p.h. at Seneca, doing some damage to trees and power lines.
Lincoln County	21	1948CST			0	0	3	1			Thunderstorm Wind (54) Wind gusted to 62 m.p.h. at the North Platte airport, doing damage to tree limbs and utility lines.
Custer County	21	2020CST	0.1	20	0	0	2	1			Tornado (F0) A small tornado touched down briefly 6 miles northwest of Callaway.
Loup County	21	2038CST			0	0	5	4			Thunderstorm Wind (60) Seventy m.p.h winds blew down trees and power lines, and damaged buildings, homes and crops across the county. A tree 4 feet in diameter was blown down in Taylor.
Loup County	21	2045CST			0	0	0	4			Hail (2.0) Two inch hail fell 2 miles east of Taylor, damaging crops.
Valley County	21	2055CST			0	0	4	3			Thunderstorm Wind (52) Sixty m.p.h. winds damaged trees and crops 9 miles north of Arcadia. Strong winds downed large tree limbs at Ord.
Sherman County	21	2100CST			0	0	4	0			Thunderstorm Wind Seventy m.p.h. wind gusts damaged a sail boat and sank three other boats on Sherman Lake. Tree limbs were also blown down.
Blaine County	21	2100CST			0	0	5	4			Thunderstorm Wind (65) Seventy-five m.p.h. wind gusts blew down power lines and trees, and damaged roofs 10 miles east of Brewster.
Brown County	21	2100CST			0	0	4	4			Thunderstorm Wind (65) Seventy-five m.p.h. wind gusts at Clear Lake 20 miles southwest of Ainsworth blew down power lines and trees.
Garfield County	21	2100CST			0	0	6	5			Thunderstorm Wind (87) One hundred m.p.h. winds at Burwell blew down power lines and trees, and damaged crops and buildings. Several mobile homes were blown over along with grain bins. Wind almost destroyed one section of the fair ground grandstands and damaged all others. Hangars were also damaged at the Burwell airport.
Garfield County	21	2104CST	8	40	0	0	5	3			Tornado (F1) A tornado touched down 8 miles northwest of Burwell and lifted 8 miles northeast of Burwell, destroying two mobile homes and damaging trees and fences.
Box Butte County	21	2175CST			0	0	0	0			Funnel Cloud A funnel cloud was reported 4 miles southeast of Marsland.
Wheeler County	21	2130CST			0	0	4	3			Thunderstorm Wind Wind gusts blew down trees and power lines around Bartlett and Ericson.
Holt County	21	2130CST			0	0	5	3			Thunderstorm Wind Thirty trees were blown down 15 miles southeast of Chambers at Goose Lake. Trees and power lines were also blown down at Ewing.
Howard County	21	2140CST			0	0	4	0			Thunderstorm Wind Strong winds downed large tree limbs in St. Paul.
Hall County	21	2145CST			0	0	3	0			Thunderstorm Wind Strong winds blew windows out of Dairy Queen in Grand Island.
Valley County	21	2200CST			0	0	3	0			Thunderstorm Wind Wind damaged trees 8 miles south of Ord.
Howard County	21	2205CST			0	0	3	0			Thunderstorm Wind Wind gusts broke large tree limbs in Elba.
NEBRASKA											
Madison County	21	2215CST- 2231CST			0	0	6	3			Thunderstorm Wind (51) Wind gusts blew down trees 8 miles north of Newman Grove. Trees and power lines were blown down at Norfolk, and a 59 m.p.h. gust was measured at the Norfolk airport. One house roof was damaged by a fallen tree at Norfolk, and another home's roof was blown off. A porch was blown off a home 4 miles north of Norfolk.
Knox County	21	2230CST			0	0	6	3			Thunderstorm Wind Wind gusts at Bloomfield blew in a nursing home wall and blew off a portion of the roof. Trees and power lines were also downed. At Creighton, an airplane was flipped over.
Pierce County	21	2230CST			0	0	5	4			Thunderstorm Wind Strong winds blew over camper trailers at Willow Creek Lake west of Pierce. Some trailers were moved 75 feet. Trees and power lines were blown down in Pierce. Winds destroyed a shed 2 miles north of Hadar and drove a 2x4 into a house wall.
Wayne County	21	2245CST			0	0	4	3			Thunderstorm Wind A shed was overturned and a porch window blown out one mile north of Hoskins.
Cedar County	21	2255CST			0	0	6	3			Thunderstorm Wind At Hartington, winds blew about a third of the roof of the catholic high school off, with debris breaking windows in five school buses and a van. Trees and power lines were downed in Laurel.
Dakota County	21	2345CST			0	0	5	2			Thunderstorm Wind Wind gusts blew the roof off a barn and turned a house trailer over at the Dakota City race track. An outbuilding was destroyed north of Emerson. Power lines and trees were blown down in Dakota City and South Sioux City.
Dixon County	22	0010CST			0	0	5	2			Thunderstorm Wind (52) Sixty m.p.h winds downed trees and power lines at Ponca, Martinsburg and Newcastle. Fallen trees damaged buildings in Ponca.
Thurston County	22	0010CST			0	0	4	0			Thunderstorm Wind Wind broke tree limbs and downed power lines around Walthill.
Thomas County	22	1815CST			0	0	3	4			Thunderstorm Wind (56) 65 m.p.h. winds at Thedford damaged trees and caused power outages. Half inch hail with the wind damaged crops.
Custer County	23	1350CST			0	0	0	0			Funnel Cloud A funnel cloud was reported 8 miles northwest of Anselmo.
Dawson County	26	1457CST	0.3	50	0	0	4	0			Tornado (F1) A tornado touched down briefly 1 1/2 miles north of Overton, destroying a garage and overturning a camper trailer. Trees were also downed.
Knox County	28	2000CST- 2200CST			0	0	4	4			Flash Flood Heavy rains washed out roads and fences 10 miles north of Bloomfield.
Knox County	28	2027CST	0.1	20	0	0	1	1			Tornado (F0) A small tornado touched down briefly 8 miles northwest of Bloomfield.
Knox County	28	2030CST			0	0	4	5			Hail (0.75) Three-quarter inch hail and gusty winds broke farm house windows 6 miles north of Bloomfield. The hail also fell in Bloomfield. Hail stripped crops in an area 10 miles long and 3 miles wide just north of Bloomfield.
Sheridan County	29	0100CST			0	0	5	1			Thunderstorm Wind Strong wind overturned a cattle trailer and two campers, damaged roofs, and uprooted trees 6 miles northwest of Gordon.
Keya Paha County	29	1400CST- 1425CST			0	0	4	4			Hail (1.5) One and a half inch hail fell 6 to 9 miles north of Springview and at Springview, damaging homes, cars, buildings, and crops.
Boyd County	29	1515CST			0	0	4	2			Thunderstorm Wind Winds damaged power poles in the Spencer area.
Boyd County	29	1515CST			0	0	4	2			Thunderstorm Winds Winds damaged power poles in the Spencer area.
Holt County	29	1602CST- 1629CST			0	0	4	4			Thunderstorm Winds (56) Sixty-five m.p.h. winds damaged power lines 15 miles northwest of Stuart to 30 miles northwest of O'Neill.
Antelope County	29	1745CST			0	0	4	3			Thunderstorm Winds High wind gusts damaged power lines and trees at Clearwater.
Greeley County	29	1753CST			0	0	4	4			Hail (1.5) One and a half inch hail fell around Wolbach, doing damage to crops, buildings and vehicles.
Wayne County	29	1949CST			0	0	3	0			Thunderstorm Wind Wind gusts damaged a concession stand and bleachers at the ball park in Hoskins.

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					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	
NEBRASKA											
Merrick County	29	2000CST			0	0	3	6	Hail (1.5) and Thunderstorm Wind		
									One and a half inch hail at Clarks damaged vehicles and buildings. Strong winds and hail caused extensive damage over much of the northeast part of the county.		
Polk County	29	2002CST	0.3	50	0	0	4	1	Tornado (F1)		
									A tornado moving east touched down 7 miles north of Osceola, destroying a barn.		
Polk County	29	2012CST	0.3	50	0	0	5	2	Tornado (F1)		
									A tornado touched down 7 miles west and 3 miles north of Osceola, causing extensive damage to a farm.		
Washington County	29	2018CST			0	0	3	0	Thunderstorm Wind		
									Strong wind gusts damaged power lines and broke tree limbs at Herman.		
Douglas County	29	2020CST			0	0	3	0	Thunderstorm Wind		
									Wind gusts caused scattered tree limb and utility line damage at Elkhorn and Omaha.		
Polk County	29	2024CST			0	0	6	7	Thunderstorm Wind (60) and Hail (1.5)		
									Winds to 70 m.p.h. and hail to 1½ inches did extensive damage to the western half of Polk County. As many as 10 homes sustained roof, siding and window damage. Vehicles were damaged, trees were uprooted, and utility lines were damaged.		
Platte County	29	2045CST			0	0	4	5	Flash Flood		
									Four inch rains in less than an hour around Monroe and just south of Platte Center flooded farmland and some roadways. Water flooded a number of businesses north of Columbus. Shell Creek was forced out of banks.		
Butler County	29	2100CST			0	0	3	2	Thunderstorm Winds (52)		
									Sixty m.p.h. winds damaged trees, utility lines and crops around David City.		
Nance County	29	2100CST			0	0	4	4	Flash Flood		
									Rain up to 5 inches in about a two hour period in the south part of the county flooded farmland and roadways and forced small creeks out of banks.		
Polk, Butler, Hamilton, York, Seward, Lancaster, Fillmore, Saline and Gage Counties	29-7/8	2100CST-1600CST			0	0	7	7	Flood		
									Excessive rains of 3 to 6 inches fell across areas of Polk, Butler, Hamilton, York, Seward and Saline Counties, the late evening of 29th into early morning of the 30th, causing flash flooding of farmlands, roads and urban areas. Larger rainfalls included 6.1 inches at Surprise, 5.5 inches at Henderson, 4.5 inches at Ulysses and David City, and 3.9 inches at Osceola. 3.1 inches of rain also caused urban flooding around Lincoln. The rain resulted in flooding of the Big Blue River and its tributaries including the west fork of the Big Blue, Lincoln Creek, Beaver Creek, Swan Creek and Turkey Creek. This flooding was aggravated by 1 to 3 inch rains the night of the 30th over the same Big Blue watershed. Flood damage was sustained to crops, farmland, farm equipment and buildings. Roads and bridges were damaged by flood waters, along with homes and businesses.		
									Some of the worst urban flooding occurred along a 70 mile stretch of the Big Blue from around Seward to Barneston. At Seward the river crested 5 feet above flood stage. Five to ten homes were evacuated and a park flooded as a dike broke southwest of town. The river at Crete and De Witt crested 11 feet above flood stage. At Crete, 6 homes were flooded, and water damage occurred to public works buildings, roads and parks. At De Witt, 320 residents were evacuated as flooding was aggravated by inflows from Swan and Turkey Creeks. Over three-quarter of the city streets were covered by water, but only two homes suffered heavy flood damage. Two families were evacuated east of Wilber. At Beatrice where the river crested 12 feet above flood stage, 17 businesses and 35 homes were damaged. Flood damage was also sustained by municipal buildings, city parks and a dike. The Big Blue finally dropped below flood stage in southern reaches during the day on July 8th.		
Sioux County	29	2110CST	0.1	20	0	0	1	1	Tornado (F1)		
									A tornado touched down briefly 20 miles north of Scottsbluff in open country.		
Sioux County	29	2120CST			0	0	4	4	Hail (1.5)		
									One and a half inch hail 7 miles south of Harrison damaged vehicles and crops.		
Lancaster County	29	2130CST			0	0	3	1	Thunderstorm Wind (64)		
									Wind gusts to 74 m.p.h. at the Lincoln airport. Only minor damage to buildings and signs was reported.		
Lancaster County	29	2145CST			0	0	3	3	Thunderstorm Wind (50)		
									Wind gusts estimated around 58 m.p.h. damaged crops and trees just south of Emerald.		
NEBRASKA											
Nance County	29	2200CST			0	0	5	6	Thunderstorm Wind (52) and Hail (1.5)		
									Sixty m.p.h winds and 1½ inch hail caused extensive damage to crops and farm buildings over the south portion of the county.		
Clay and Fillmore Counties	29	2230CST			0	0	4	5	Thunderstorm Wind and Hail (1.5)		
									Strong winds and 1½ inch hail caused damage to crops from east of Clay Center to Geneva. Buildings were also damaged.		
York County	29	2233CST			0	0	5	7	Thunderstorm Wind and Hail (1.0)		
									Wind gusts blew the roof off a business on the south side of York. Wind also damaged trees and utility lines in town. Hail up to 1 inch and high winds caused extensive crop damage from the north-central to southeast part of the county.		
Dawes County	30	0430CST-0615CST			0	20	8	7	Thunderstorm Wind (96) and Hail (3.0)		
									An intense storm packing wind gusts estimated 80 to 110 m.p.h. and hail 1½ to 3 inches entered northwest Dawes County and moved southeast causing extensive damage to crops, buildings, trees and utility lines in its path. The storm struck Chadron at 0505CST, causing extreme damage. Homes, businesses and schools in an estimated 80 percent of the city had almost every window on the west and north side broken, and roof damage was common. Siding on many homes was badly pitted. A number of homes were uninhabitable due to damage. Twenty people were injured from flying glass and debris. Thousands of vehicles were dented and had windows broken. Trees and shrubs were stripped bare of foliage, making the area look like winter. The storm exited the county about 15 miles southwest of Chadron with massive crop damage and deaths of livestock in its path.		
Sheridan County	30	0615CST-0720CST			0	0	6	7	Thunderstorm Wind (70) and Hail (1.5)		
									The same storm that hit Dawes County entered Sheridan County west of Hot Springs and moved southeast to near Spring Lake. Winds estimated to 80 m.p.h. and 1½ inch hail caused a half mile wide path of heavy crop damage. Windows were broken in farm homes and vehicles.		
Cherry County	30	0720CST-0800CST			0	0	4	6	Thunderstorm Wind and Hail (1.0)		
									Strong thunderstorms entered west-central Cherry County and moved southeast leaving the county just north of Seneca. The path was through mainly open rangeland, but ranches 15 to 25 miles northwest of Mullen reported broken windows and crop damage from wind-driven, 1 inch hail.		
Thomas County	30	0838CST			0	0	3	5	Hail (3.0)		
									Hail to 3 inches fell 3 miles west of Thedford, damaging crops. Hail was also reported 2 inches deep across the road 2 miles north of Thedford.		
Sheridan County	30	1808CST			0	0	0	0	Funnel Cloud		
									A funnel cloud was reported 5 miles northwest of Rushville.		
Sioux County	30	1855CST			0	0	3	3	Hail (1.0)		
									Wind-driven, 1 inch hail damaged crops and broke truck windshields just south of Harrison.		
Sheridan County	30	1945CST			0	0	3	1	Hail (1.5)		
									One and a half inch hail fell briefly around Gordon. Minor property damage was reported.		
26 NEVADA											
NVZ003 Douglas and Lyon Counties	4	0810PST			0	0	0	5	Flooding		
									The Walker River flooded due to heavy snow melt, causing approximately \$300,000 in crop damage. Approximately 1000 acres of agricultural land was in flood conditions for a 48 hour period.		
NVZ003 Washoe County	12	1605PST			0	0	0	0	Flooding		
									Heavy rain associated with thunderstorms in west Reno caused significant street flooding. Flooding caused interruption of power for approximately 1500 homes for several hours. A cooperative observer in west Reno reported .81 inches of rain in a ¼ hour period.		
NVZ003 Storey and Lyon Counties	13	1732PST			0	0	0	0	Thunderstorm, Hail		
									Severe thunderstorms broke out along the eastern Sierra and spread across adjacent valleys. Golf ball size hail was reported in Dayton in Lyon County.		

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 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	
27 NEW HAMPSHIRE											
Grafton County	01	1430EST			0	0	3				Severe Thunderstorm Plymouth Police reported 3/4 inch hail during a severe thunderstorm.
Carroll County	01	1445EST			0	0	4				Severe Thunderstorm Carroll County Police reported winds from a severe thunderstorm downed large trees in Conway on Route 113 at Stark Road, causing power outages.
Sullivan County	01	1615EST			0	0	4				Severe Thunderstorm In Claremont, police reported 3/4 inch hail fell during a severe thunderstorm. In Sunapee, a lightning strike caused severe fire damage to the inside of a garage, but the attached house was not harmed.
Belknap County	01	1621EST			0	0	3				Severe Thunderstorm The Glendale boathouse reported 3/4 inch hail at the Weirs Beach area of Lake Winnepesaukee.
Strafford County	01	1630EST			0	1	5				Severe Thunderstorm In Rochester, a severe thunderstorm produced strong winds and lightning that downed more than 30 trees and telephone poles and wires, causing power outages. The rear of a mobile home was crushed by a huge pine tree. Lightning struck the Clarstat Building in Dover, causing a small blaze in the western tower which damaged the eaves. Another lightning strike in Somersworth caused a fire in the Pond Lily Great Falls Co. The building's security guard was treated for smoke inhalation, while firemen confined the second floor blaze to a 20x20 foot area. In Exeter, 7,500 lost power for two hours due to possible storm damage to a transmission cable.
Cheshire and Hillsborough Counties	01	1631-1645EST			0	1	5				Severe Thunderstorm A severe thunderstorm with wind gusts estimated up to 70 mph, uprooted or snapped off hundreds of trees, some up to 4 feet in diameter. The major damage from this severe thunderstorm extended from just northwest of Marlborough to Harrisville to near Silver Lake (Cheshire County), and into Hancock along Routes 123 and 202 North Peterborough (Hillsborough County). The combined wind and felled trees knocked down power lines which left about 4,000 residents without electricity for a couple of hours. The hardest hit area (Hillsborough County) was along the middle Hancock Road between Hancock and Peterborough where 1/2 mile of power lines were downed. Sixty homes were left powerless until late Monday morning. In Peterborough, minor damage to several homes was reported due to the fallen trees, while at Camp Sargent, a vacated dormitory received extensive damage from a 3 foot diameter oak that snapped and landed on the roof. Also, the camp's rope course was destroyed. One and a half inch diameter hail was reported in Peterborough too, while at Silver Lake (Cheshire County) it hailed long enough so it completely covered the ground. At 1645EST, in Manchester (Hillsborough County), a 25 year old male softball player was struck by lightning while standing under a tree. He survived but was hospitalized.
Hillsborough County	01	1700EST			0	0	4				Severe Thunderstorm A severe thunderstorm produced strong winds that snapped off tree tops that came down onto power lines in Amherst and Hollis, causing minor power outages. The Milford Communications Center was knocked out by lightning, and repairs lasted well into Monday. Nashua reported nearly one inch of rain in a downpour that caused local street flooding due to clogged catch basins.
Rockingham County	01	1830EST			0	0	3				Lightning About 200 North Hampton residents were without electricity for an hour when a power line was struck by lightning.
Cheshire County	16	1115EST			0	0	3				Severe Thunderstorm Walpole Cooperative Observer reported wind gusts over 60 mph during a severe thunderstorm.
Merrimack County	16	1137EST			0	0	5				Severe Thunderstorm NWS Concord observed 51 knot (59 mph) wind gusts in a severe thunderstorm that uprooted and downed numerous very large trees and caused power outages throughout the city of Concord. The NWS office was also struck by lightning which blew insulation out of the roof, shut the power off, and knocked out the emergency generator.
Merrimack County	16	1145EST			0	0	4				Lightning In Northfield, lightning struck and snapped off a 2 foot diameter tree which, in turn, crashed through a mobile home, doing extensive damage.
NEW HAMPSHIRE											
Strafford County	16	1205EST			0	0	4				Lightning A garage located on the Milton-Farmington town line was destroyed by a lightning-induced fire.
Rockingham County	16	1245EST			0	0	3				Severe Thunderstorm In Northwood, trees were blown down by winds in a severe thunderstorm.
Merrimack County	16	1320EST			0	0	4				Severe Thunderstorm In the Loudon-Epsom area, trees were blown down by winds in a severe thunderstorm.
Cheshire and Hillsborough Counties	16	1350EST	6	25-33	0	0	5				Tornado (F1) The tornado began near the Marlborough-Dublin town line near Route 101, damaging a Marlborough home. Then it went through woods, across Howe Reservoir in Harrisville, cut through Harrisville, felling trees and property, until it ended up in Skatutokee Lake, located on the Harrisville-Hancock border. Its path was estimated to be 6 miles long with an average width of 75 to 100 feet, and it travelled in a northeast direction. Most damage was confined to woods of the aforementioned towns where numerous trees were uprooted or snapped off. Harrisville was hardest hit, with several homes sustaining extensive damage from fallen trees and peeled-off roof sections. Also, one garage was completely destroyed and one huge door ripped off a barn. The utility company reported two utility poles and 15 sections of powerlines were downed directly by the tornado, leaving 400 to 500 customers without power.
Rockingham County	16	1355EST			0	0	4				Lightning In New Castle, a lightning-induced fire leveled a garage and completely destroyed a 1964 Dodge Dart that was considered in mint condition.
Hillsborough County	16	1420EST			0	0	4				Severe Thunderstorm A severe thunderstorm produced strong winds that knocked down trees and powerlines in Hillsboro, causing minor power outages.
Merrimack County	16	1430EST			0	0	4				Severe Thunderstorm A severe thunderstorm produced strong winds that knocked down trees and power lines in Henniker, causing minor power outages. Heavy downpours also caused some minor street flooding.
Strafford County	16	1500EST			0	4	6				Lightning In Somersworth, a lightning strike caused a major fire which completely destroyed the Lotus Products Building where plastic drinking straws were manufactured. Despite the building becoming quickly engulfed in flames, all 20 employees escaped unharmed. Also destroyed by the fire were stored raw materials, inventory and machinery. Nine community fire departments fought the blaze. About 12 firemen were treated for heat exhaustion and four others required hospitalization from injuries sustained while fighting what was Somersworth's largest fire in years.
Strafford County	16	1625EST			0	0	5				Severe Thunderstorm In the Dover-Rochester-Somersworth areas, a severe thunderstorm spawned strong winds that toppled many trees and powerlines, leaving 5,000 residents in the region without power. In Farmington, lightning started a fire which did an estimated \$10,000 damage to an upstairs apartment, plus smoke and water damage to apartments next door and downstairs. In Barrington, a home was damaged by a lightning bolt that split a large tree about ten feet above the ground, dug a trench in the ground toward the back porch of the home, and damaged a wall of the dwelling. There was no fire.
Cheshire County	16	Afternoon			0	0	5				Lightning Four radio towers were struck by lightning, damaging the transmitters. Two of the towers are located on Highland Hill in Westmoreland and caused communication problems for the Southwestern New Hampshire Fire Mutual Aid and the New Hampshire State Police, Troop C, in Keene. The Public Service Company had two towers rendered useless by lightning, one located on Beech Hill in Dublin, and the other on Chesterfield Hill in Chesterfield.
Sullivan County	16	1705EST			0	0	5				Severe Thunderstorm In Claremont, a severe thunderstorm produced strong winds that uprooted and downed numerous trees and powerlines, causing power outages that lasted upwards of 30 hours. Many homes were damaged by falling trees and 3/4 inch diameter hail was also reported in Claremont.
Coos County	16	2020EST			0	0	3				Severe Thunderstorm In Colebrook, a severe thunderstorm produced strong winds that blew down the antenna, atop the Town Hall, used by the Dispatch Center.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1986

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED ¹ DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
NEW HAMPSHIRE									
Coos County	16	2030EST			0	0	4		Severe Thunderstorm
									In the Berlin-Gorham region, a severe thunderstorm produced strong winds that knocked down trees and power and telephone lines, opened garage doors, and flung patio furniture into swimming pools.
Coos County	16	2033EST			0	0	3		Severe Thunderstorm
									In Errol, a severe thunderstorm produced strong winds that blew down trees along Route 16.
Coos County	16	2033EST			0	0	3		Severe Thunderstorm
									In the Twin Mountain-Mount Washington area, a severe thunderstorm produced strong winds that blew down trees.
Coos County	16	2033EST			0	0	3		Severe Thunderstorm
									In North Stratford, a severe thunderstorm produced strong winds that blew down trees.
Coos County	16	2033EST			0	0	3		Severe Thunderstorm
									In the Dalton-East Lancaster Region, a severe thunderstorm produced strong winds that blew down trees.
Coos County	16	2033EST			0	0	3		Severe Thunderstorm
									In Milan, a severe thunderstorm produced winds that blew down trees.
Grafton County	16	2033EST			0	0	3		Severe Thunderstorm
									In Lyman, a severe thunderstorm produced winds that blew down trees.
Grafton County	16	2130EST			0	0	3		Severe Thunderstorm
									In North Haverhill, winds from a severe thunderstorm blew down trees.
Carroll County	16	2140EST			0	0	3		Severe Thunderstorm
									In Conway, winds from a severe thunderstorm blew down trees.
Grafton and Merrimack Counties	16	2145EST			0	0	4		Severe Thunderstorm
									In the Bristol-Hebron (Grafton County)-Danbury (Merrimack County) region, a severe thunderstorm produced strong winds that uprooted and downed numerous trees and powerlines, which caused scattered power outages.
Grafton County	16	2155EST			0	0	4		Severe Thunderstorm
									A severe thunderstorm produced strong winds that downed trees and tree limbs which, in turn, took down powerlines. About 100 to 150 residents were without power in the Holderness-Warren-Campton-Plymouth-Runney region.
Grafton County	16	2155EST			0	0	3		Severe Thunderstorm
									On the back side of Newfound Lake in Bristol, high winds from a severe thunderstorm downed trees which, in turn, caused some power outages.
Belknap County	16	2200EST			0	0	4		Severe Thunderstorm
									Winds from a severe thunderstorm downed a few trees in the towns of Lakeport, Tilton, and Sanbornton, and caused scattered power outages in each town. Meanwhile, the thunderstorm produced hail up to 3/4 inches in diameter at Gilford, and a lightning bolt hit and damaged a main transmission line in Alton, rendering 1,000 residents powerless.
Coos County	29	1600EST			0	0	3	0	Severe Thunderstorm
									In the East Colebrook-Diamond Pond area, strong winds from a severe thunderstorm blew down trees across utility wires, causing scattered power outages. The higher elevations of the region also had a thick layer of marble-size hailstones covering the ground.
Grafton and Coos Counties	29	1615EST			0	0	4	0	Severe Thunderstorm
									Strong winds from a severe thunderstorm blew down trees and utility wires in Bethlehem (Grafton County), leaving 2500 homes powerless. This severe thunderstorm moved east, and the winds downed trees and power lines in Twin Mountain (Coos County), causing scattered power outages.
Merrimack and Belknap Counties	29	1710EST			0	0	5	0	Severe Thunderstorm
									Winds from a severe thunderstorm downed trees onto and through power lines in Franklin (Merrimack County), leaving 3,700 residences powerless. The severe thunderstorm then entered Belknap County where the winds knocked down trees through power lines and capsized several boats on Lake Winnepesaukee. One boat sank off Belknap Point and one sailboat received a broken mast. At 6:17PM EDT, Laconia Airport reported a peak gust of 47 mph and 3/4 inch diameter hail. In Chocorua (Carroll County), about 4,700 residences were left powerless.
NEW HAMPSHIRE									
Merrimack County	29	1715EST			0	0	4	0	Severe Thunderstorm
									In Manchester, winds from a severe thunderstorm knocked down tree limbs and power lines, leaving 3,000 residences powerless for a few hours. Across the river from Manchester, in the Auburn-Candia area (Rockingham County), about 2,800 residences were also without power.
Merrimack County	29	1740EST			0	0	3	0	Thunderstorm
									The National Weather Service in Concord reported a peak gust of 47 mph (41 kts) at 6:41 PM EDT, while in Allenstown, marble-size hail fell during a thunderstorm.
Rockingham County	29	1810EST			0	0	3	0	Severe Thunderstorm
									In Epping, winds from a severe thunderstorm blew down trees.
Hillsborough County	29	1815EST			0	0	4	0	Severe Thunderstorm
									In Nashua, winds from a severe thunderstorm downed trees and powerlines that left southern sections of the city without power for most of the night. There was no rain associated with the severe thunderstorm which, in turn, produced many tree fires and caused several streets to become blocked.
Cheshire County	29	1830EST			0	0	4	0	Severe Thunderstorm
									A severe thunderstorm produced strong winds that knocked down two powerlines, affecting 90 homes in Hinsdale and 40 homes in Westmoreland.
28 NEW JERSEY, Northern — NONE REPORTED									
28 NEW JERSEY, Southern									
Atlantic County	11	2030EST			0	0	?	0	High Wind
	11	2040EST			0	0	?	0	High Wind
									Wind gusts brought a tree down on a parked car at 9:30 PM EDT in Hammonton. At 9:40 PM EDT, many branches and some large limbs were also brought down by wind gusts in Hammonton.
Ocean County	11	2030EST			0	0	?	0	High Wind
									Wind gusts in Beachwood were estimated at 60 mph by the police department.
Burlington County	11	2045EST			0	0	?	0	High Wind
									Large tree limbs were blown down in Pemberton Boro.
29 NEW MEXICO									
Eddy County	05	PM			0	0	0	5	Hail
									A hailstorm caused an estimated \$60,000 damage to cotton, pickle, and alfalfa crops in the Artesia area.
Valencia County	16-17	2200-0100MST			0	0	3	0	High Winds
									High winds from a thunderstorm on the east side of the mountains forced winds through the narrow canyon at Meadow Lake, 8 miles east of Los Lunas, causing major damage to one mobile home and minor damage to another.
Lea County	22	1145MST			0	3	0	0	Lightning
									At 3 miles south of Eunice, three men were leaning against a pickup truck and talking when lightning struck all three. One was admitted to Lea Regional Hospital in critical condition and has since recovered.
Luna County	22	1600MST			0	0	4	0	High Winds
									High winds ripped through the Columbus area, damaging two buildings and forcing the evacuation of one family from a damaged mobile home.
Lincoln, Chaves, and Eddy Counties	17-27				0	0	6	0	Flood/Flash Flood
									In southwestern New Mexico, heavy rains of 3 to 5 inches with a maximum of 15.72 inches at Carlsbad Caverns caused at least two million dollars in damage. These rains caused flooding on the Pecos River and the mainstream of the Pecos in Lincoln, Chaves, and Eddy Counties.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1986

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					KILLED	INJURED	PROPERTY	CROPS	
30 NEW YORK, Coastal — NONE REPORTED									
30 NEW YORK, Central									
Hamilton County	01	1345EST			0	0	0	0	Hail (0.25)
Herkimer County	01	1400EST			0	1	2	0	High Wind
Onieda County	01	1430EST			1	1	3	2	High Wind
Saratoga County	01	1555EST			0	0	0	0	Hail (0.25)
Saratoga County	01	1608EST			0	0	0	2	High Wind
Osteo County	01	1630EST			2	0	3	2	High Wind, Rain
Montgomery County	01	1739EST			0	0	2	2	High Wind
Montgomery County	01	1740EST			0	0	0	2	High Wind
Montgomery County	01	1800EST			0	0	0	0	Hail (0.75)
Schenectady County	01	1822EST			0	0	0	0	Hail (0.25)
Schenectady County	01	1824EST			0	0	0	0	Hail (0.50)
Saratoga County	01	1828EST			0	0	0	0	Hail (1.00)
Saratoga County	01	1830EST			0	0	2	2	High Wind
Albany County	01	1845EST			0	0	0	0	High Wind
Rensselaer County	01	1850EST			0	0	0	0	Hail (0.75)
Rensselaer County	01	1853EST			0	0	0	0	Hail (0.50)
Saratoga County	01	1900EST			0	0	0	3	High Wind
Saratoga County	01	1900EST			0	0	4	0	Lightning
Rensselaer County	01	1900EST			0	0	0	2	High Wind
Rensselaer County	01	1900EST			0	0	0	3	Hail (1.00)
Albany County	01	1900EST			0	0	3	0	High Wind
Rensselaer County	01	1900EST			0	0	3	1	High Wind
Rensselaer County	01	1900EST			0	0	0	0	Hail (1.00)
Clinton County	01	2200EST			0	0	0	2	Hail (1.00)
Severe thunderstorms moved across eastern New York, producing most of their damage in the Mohawk Valley area. One isolated pocket of heavy damage was reported in the Raquette Lake area. Several reports of large hail and high winds were received during the afternoon.									
Heavy rain and high winds were listed as the cause of three fatal accidents - one in Herkimer, one in Cherry Valley, and one in Utica. M49V, F26V, M43V, M65V									
NYZ012-019-020	03	0600EST			0	0	0	5	Frost
A late season frost resulted in scattered crop damage in the eastern Mohawk Valley, the Capital District, and the Saratoga-Lake George regions of New York.									
Dutchess County	06	AM			0	5	0	0	Rain/Flood
Overnight rain caused some local, minor flooding. The flooding was listed as the cause of a school bus mishap which injured five children in Fishkill.									
Broome County	12	?			0	0	3	2	High Wind
Thunderstorms and high winds brought down trees and power lines.									
Ulster County	16	1209EST			0	0	0	3	High Wind
Sullivan County	16	1215EST	1	100	0	2	5	0	Tornado (F1)
Saratoga County	16	1241EST			0	0	0	0	Hail (0.75)
Warren County	16	1325EST			0	0	0	0	Hail (0.50)
Warren County	16	1435EST			0	0	6	0	High Wind
Warren County	16	1435EST			0	0	0	0	Hail (0.50)
St. Lawrence County	16	1710EST			0	0	5	4	High Wind
Franklin County	16	1730EST			0	0	2	2	High Wind, Rain
Essex County	16	1830EST			0	0	4	0	High Wind
Onieda County	16	1855EST			1	0	5	0	High Wind
Herkimer County	16	1901EST			0	0	2	2	High Wind
Cortland County	16	1942EST			0	5	6	4	Downburst Wind
Tioga County	16	1956EST			0	0	3	2	High Wind
Hamilton County	16	2000EST			0	0	3	4	High Wind
Hamilton County	16	2000EST			0	0	0	2	High Wind
Chenango County	16	2001EST			0	0	0	3	High Wind
Chenango County	16	2006EST			0	0	0	3	High Wind
Chenango County	16	2017EST			0	0	4	2	High Wind
Osteo County	16	2021EST			0	0	5	2	High Wind
Tioga County	16	2030EST			0	0	3	3	High Wind
Montgomery County	16	2030EST			0	0	5	2	High Wind
Montgomery County	16	2030EST			0	1	3	1	Lightning
Fulton County	16	2030EST			0	0	0	2	High Wind
Schoharie County	16	2030EST			0	0	2	2	High Wind
Schoharie County	16	2030EST			0	0	5	0	Lightning
Chenango County	16	2035EST			0	0	0	2	High Wind
Broome County	16	2038EST			0	0	0	3	High Wind
Osteo County	16	2040EST			1	0	5	2	High Wind
Warren County	16	2045EST			0	1	5	0	Downburst Wind
Osteo County	16	2100EST	0.5	100	0	0	5	4	Tornado (F0)
Schoharie County	16	2100EST			0	0	5	2	High Wind
Montgomery County	16	2110EST			0	2	5	0	Lightning
Osteo County	16	2114EST			0	0	0	3	High Wind
Washington County	16	2123EST			0	0	5	4	High Wind
Washington County	16	2123EST			0	0	0	2	High Wind
Schenectady County	16	2130EST			0	0	5	3	High Wind
Sullivan County	16	2136EST			0	0	0	3	High Wind
Washington County	16	2136EST			0	0	0	2	High Wind
Albany County	16	2145EST			0	0	0	3	High Wind
Columbia County	16	2200EST			0	0	0	2	High Wind
Columbia County	16	2205EST			0	0	5	0	Lightning
Clinton County	16	?			0	1	5	4	High Wind
The worst outbreak of severe weather in recent memory affected all of eastern New York. One tornado was sighted at the Woodbourne Correctional Facility, and injured 2 police officers. The city of									
NEW YORK, Central									
Cortland was hard hit by downburst winds. Damage amounted to near eight million dollars. One male was killed in Utica, the result of a car accident which was weather related. In Fonda, a young girl was hit by lightning, but survived. In Glens Falls, the roof of a local restaurant was torn off by high winds; the same building had its roof destroyed by high winds in 1984. M65V									
NEW YORK, Western									
Essex County	01	0149 EST			0	0	4	0	Lightning
A lightning bolt ignited a barn near Route 34B South. The fire destroyed 50 tons of hay, 2 hay mowers, and other farm equipment.									
Jefferson and Lewis Counties	01	1420 EST			0	0	4	0	Lightning
A lightning strike toppled a huge tree in Wartenburg, Jefferson County. Power lines were broken. More than a thousand homes and businesses had no power for more than 10 hours.									
In Lewis County, thousands of homes also lost power from lightning strikes for various lengths of time.									
NYZ001 Erie County	01	Late Evening			0	0	4	0	Rain
Four families in the Kenmore area were evacuated when heavy rains rendered their brick homes uninhabitable. A few streets in Kenmore and in the town of Tonawanda were inundated with knee-deep water. Power interruptions were reported.									
Cayuga County	07	1700 EST			0	0	4	0	Rain
Thunderstorm rains flooded parking lots and streets.									
Wyoming and Erie Counties	11	0430 EST			0	0	5	0	Rain & Wind
Chautauque County	11	0430 EST			0	0	5	0	Rain
Cattaraugus County	11	0730 EST			0	0	5	4	Rain
Chautauque County	11	1835 EST			0	0	4	0	Rain
Allegany & Cattaraugus Counties	11	1935 EST			0	0	5	0	Rain
Severe thunderstorms with heavy rain and strong winds passed across the area.									
More than 2 inches of rain in less than an hour fell over Arcade, Wyoming County during the early morning. A felled tree across a creek acted like a dam, forcing the floodwaters to spill into town streets. A farm store owner reportedly lost equipment worth more than 100,000 dollars.									
In Cattaraugus County, 10 bridges sustained damage. Forty acres of corn and alfalfa were destroyed. County officials estimated the loss at 100,000 dollars. Chautauque and Allegany Counties each claimed damages of about 100,000 dollars to bridges and roads.									
Most of the damage from flooding occurred in the morning and worsened by more thunderstorms in the evenings.									
Wayne County	12	1649 EST			0	0	4	0	Rain
Tall trees were uprooted and some four-lane roads washed out in the village of Ontario.									
Steuben County	12	Evening			0	0	4	0	Rain & Wind
Heavy rains eroded a few roads in Thurston. Several trees were uprooted in Corning.									
Chautauque County	16	1715 EST			0	0	3	0	Wind and Hail (3/4)
Erie and Niagara Counties	16	1725 EST			0	0	4	0	Wind and Rain
Olean County	16	1730 EST			0	0	4	0	Wind
Cattaraugus County	16	1738 EST			0	0	4	0	Wind and Hail (1)
Erie, Wyoming, and Genesee Counties	16	1740 EST			0	0	4	0	Wind
Erie County	16	1750 EST			0	0	4	0	Wind & Rain
Monroe and Livingston Counties	16	1819 EST			0	0	4	0	Wind
Allegany County	16	1825 EST			0	0	4	0	Wind
Ontario County	16	1830 EST			0	0	4	0	Wind
Yates, Wayne, and Cayuga Counties	16	1900 EST			0	0	4	0	Wind

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1986

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED ¹ DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
NEW YORK, Western									
Chemung & Steuben Counties	16	1940 EST			0	0	5	0	Wind
Jefferson & Lewis Counties	16	Evening			0	0	4	0	Wind
			An intense cold front with numerous severe thunderstorms passed across Western and Central New York. They had strong damaging winds, hail, lightning, and heavy rain. Downed trees damaged homes and cars. Power lines were broken and countless communities had no electricity for various lengths of time.						
31 NORTH CAROLINA									
Dare County	02	0130EST			0	0	5	0	Lightning
			A restaurant in Buxton burned to the ground and a home in Kill Devil Hills was damaged when lightning struck.						
New Hanover County	02	1300EST			0	0	0	?	Hail (1.00)
Brunswick County	02	1400EST			0	0	0	?	Hail (0.75)
Craven County	02	1435EST			0	0	?	?	Hail (1.75)
			Quarter size hail was observed in the Porters Neck area. Dime size hail was reported at Leland and Bolivia, and golfball size hail was observed at Havelock.						
NC200E	07	All Day			0	0	0	0	Tropical Storm
			TS Andrew passed within 70 miles of the North Carolina coast, but effects were limited to very rough surf for the most part, and some beach erosion occurred. As an indirect result of the storm, several swimmers required rescue, and at Ocracoke one woman died when she was swept out to sea by the strong undertow.						
Green County	08	1530EST			0	0	4	?	Thunderstorm Winds
Wayne County	08	1550EST			0	0	3	?	Thunderstorm Winds
Duplin County	08	1830EST			0	0	4	?	Thunderstorm Winds
			Severe thunderstorms caused some wind damage in southeastern North Carolina. A portion of a home was crushed at Walstonburg when a large tree was blown onto it. The occupants escaped injury just before the tree fell. Other trees fell and some roofs were damaged along a 2 mile stretch of Highway 264. Near Wallace some barns and poultry houses were damaged, and trees fell onto some cars. A few trees were blown down near Dudley in Wayne County, where a shed was destroyed and a mobile home was blown off its foundation.						
Polk County	11	0115EST			0	0	?	?	Flash Flood
			Some minor small stream and urban flooding was reported in and around Tryon when intense thunderstorms produced over 5 inches of rain in a short period.						
Burke County	12	1430EST			0	1	0	0	Lightning
Forsyth County	12	1915EST			0	0	4	0	Thunderstorm Winds
			An elderly man was struck and injured by lightning as he sat on a couch in his home at Hildebran in Burke County. At Clemmons, trees fell across power lines, causing outages which lasted for several hours. Fourteen trees fell at a golf course and one home was damaged by a falling tree. At Winston-Salem, half of the roof was blown off a store.						
Gates County	12	2030EST			0	0	?	0	Thunderstorm Winds
			A storm blew down some large tree limbs in Gatesville. Damage was first reported at 2020EST, and the storm lasted for about 10 minutes.						
Craven County	14	1600EST			0	0	?	?	Thunderstorm Winds (51), Hail (0.75)
Robeson County	14	1626EST			0	0	?	?	Thunderstorm Winds
Balden County	14	1637EST			0	0	?	?	Hail (0.75)
Pamlico County	14	1652EST			0	0	0	0	Waterspout
Martin County	14	1713EST			0	0	?	?	Thunderstorm Winds (50)
Beaufort County	14	1736EST			0	0	0	0	Waterspout
			At 1556EST, winds gusted to 51 knots at EWN, and at 1600EST, dime size hail was reported in New Bern. Another storm blew down trees along a highway between Pembroke and Lumberton, and 5 miles SW of Elizabethtown dime size hail was observed. Two waterspouts were seen: one at Oriental in Pamlico County, and one near Bath in Beaufort County. The waterspout at Oriental may have gone onshore, but no damage was reported. Winds gusted to 50 knots across parts of Martin County.						
NORTH CAROLINA									
Dare County	15	1015EST			0	1	0	0	Lightning
Caswell County	15	1700EST			0	0	?	?	Hail (1.00)
			A young man was struck and injured by lightning while on the beach at Kill Devil Hills. Near Pelham, in Caswell County, quarter size hail fell for about 20 minutes.						
Lenoir County	17	1625EST			0	0	4	4	Thunderstorm Winds
Hyde County	17	1630EST	1/2	15	0	0	3	0	Tornado (F0)
Hyde County	17	1645EST	1/2	60	0	0	5	0	Tornado (F2)
Hyde County	17	1700EST			0	0	0	0	Thunderstorm Winds (60)
Brunswick County	17	2030EST			0	0	?	?	Thunderstorm Winds
			A severe thunderstorm hit the western part of Lenoir County, producing high winds and small hail. Trees and power lines were blown down and, at one farm, some buildings were damaged or destroyed. Pieces of lumber were driven through the tailgate of a truck in the same area. Two distinctly separate tornadoes hit the same location (New Holland) in Hyde County. The first storm was observed to have twin funnels, and touched down only very briefly. One of the funnels damaged signs on a building and nearly ripped a telephone pole out of the ground. The other funnel touched down but produced no damage. Several minutes later, a much larger and more powerful storm struck the same area. This tornado was observed to loop along the ground, and a survey revealed a figure-8 damage path. About \$250,000 damage was done to a motel and restaurant. A mobile home was also damaged. A rocking chair was found impaled by the rockers in the side of the mobile home. The tornadoes moved from south to north, and then moved toward the east after lifting. At 1700EST, thunderstorm winds gusting to about 60 knots were reported by fishermen on the Pamlico Sound. Trees were uprooted in the Sturgeon Creek area of Brunswick County.						
Johnston County	20	1330EST			0	0	3	0	Thunderstorm Winds
			Trees and power lines were blown down between Kenly and Princeton.						
Dare County	20	1415EST	2	100	0	0	3	0	Waterspout-Tornado (F0)
Hyde County	20	1425EST			0	0	0	0	Thunderstorm Winds (70)
Hyde County	20	1435EST	1/2	50	0	0	0	0	Tornado (F0), Thunderstorm Winds
Dare County	20	1446EST	1/2	25	0	0	0	0	Waterspout-Tornado (F0)
			Several weak tornadoes were observed as severe thunderstorms moved through the Outer Banks area. The first tornado damaged one dwelling after it came onshore and moved through the Wachese Village area. A pecan tree fell through a portion of a mobile home. Thunderstorm winds gusted to about 70 knots at Lake Matramuskeer. A tornado formed in an open field 5 miles east of Englehard with no damage resulting. Another waterspout came onshore 2 miles south of Salvo on Hatteras Island, damaging shrubs as it moved across the narrow strip of land.						
Carver County	20	1505EST			0	0	?	?	Thunderstorm Winds
Craven County	20	1510EST			0	0	?	?	Thunderstorm Winds, Hail (0.75)
Duplin County	20	1530EST			0	0	3	3	Thunderstorm Winds
Duplin County	20	1555EST			0	0	4	?	Thunderstorm Winds
Duplin County	20	1555EST			0	0	?	?	Thunderstorm Winds
Moore County	20	1700EST			0	0	5	5	Thunderstorm Winds, Hail
Cumberland County	20	1720EST			0	0	3	0	Thunderstorm Winds
New Hanover County	20	1745EST			0	0	4	0	Thunderstorm Winds, Hail (0.75)
Robeson County	20	1800EST			0	0	3	?	Thunderstorm Winds
Columbus County	20	1830EST			0	0	3	0	Thunderstorm Winds
			Severe storms also battered South-Central and Southeastern North Carolina on this day. In Craven County, trees and power lines were blown down in the Vanceboro area, and also in Bridgeton and New Bern. Dime size hail was also seen in New Bern. The roof was taken off a mobile home near Wallace in Duplin County, and trees were blown down at Chinquapin. Crops and buildings were damaged in the Rose Hill area, and crops across the county were damaged. A very severe storm hit the Vass-Isabella areas of Moore County, causing substantial property and crop damage. Several buildings were severely damaged at one ranch where about \$50,000 in damage was reported. Roads were impassable for several hours because of trees. Crops in the area were damaged from the hail and wind. This storm then moved into NW Cumberland County where power lines were blown down near Ft. Bragg. Ten sailboats were destroyed at Wrightsville Beach, and dime size hail was reported on the east side of Wilmington. Trees and power lines blocked roads for a period of time 3 to 8 miles southeast of St. Pauls in Robeson County. Many trees and power lines were blown down in the Whiteville area of Columbus County.						
NC2001	22	1345EST			0	1	5	0	Wave
			A 12 foot wave destroyed a 40 foot fishing trawler and injured one of the two people aboard. The accident occurred off Oregon Inlet.						

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1986

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
— NORTH CAROLINA									
Wake County	24	1325EST			0	0	?	?	Hail (3.00)
Chatham County	24	1348EST			0	0	?	?	Hail (0.75)
Wake County	24	1400EST			0	0	?	?	Hail (1.00)
Gates County	24	1410EST			0	0	?	?	Thunderstorm Winds (52), Hail (0.75)
Nash County	24	1415EST			0	0	?	?	Thunderstorm Winds
Haywood County	24	1440EST			1	0	0	0	Lightning
Nash County	24	1445EST			0	0	?	?	Thunderstorm Winds
					<p>Severe thunderstorms developed rapidly over northern parts of the state during the afternoon. Two separate storms hit Wendell in Wake County. The first produced large amounts of golfball-sized hail, but a few stones were as large as 3 inches. The second storm was not as severe, but produced quarter-sized hail. Hail 3/4 inch was reported in extreme southern Chatham County. A severe storm moved slowly across southern Nash County, blowing down many trees across the area. Across the state, a 13 year old boy was struck by lightning as he sat under a tree with his dog. The dog was killed instantly, and the boy died a week later. This took place in Canton, MI30.</p>				
Moore County	24	1500EST			0	0	4	?	Thunderstorm Winds
Transylvania County	24	1500EST			0	0	5	?	Hail (2.75)
					<p>A severe thunderstorm struck the eastern half of Moore County, blowing down numerous trees and causing many power outages. A hail storm which hit the Brevard area in the mountains was described as the worst in memory by some residents. Many cars were damaged by the hail which was commonly as large as golfballs; some stones were as large as baseballs.</p>				
Gates County	24	1510EST			0	0	0	0	Hail (0.75)
Perquimans County	24	1516EST			0	0	?	?	Hail (1.75)
					<p>More severe storms moved across NE North Carolina, producing large hail at Gatesville and in the Belvidere area.</p>				
Harnett County	24	1530EST			0	0	?	?	Hail (1.00)
Pitt County	24	1530EST			0	0	?	?	Hail (0.75)
Davie County	24	1540EST			0	0	5	?	Thunderstorm Winds
Johnston County	24	1545EST			0	0	?	?	Thunderstorm Winds
Hoke County	24	1610EST			0	0	?	?	Thunderstorm Winds
Pitt County	24	1614EST			0	0	?	?	Hail (1.75)
Wayne County	24	1620EST			0	0	?	?	Thunderstorm Winds
Sampson County	24	1625EST			0	0	?	?	Hail (0.75)
					<p>One inch hail was reported in Dunn, Harnett County, as a severe storm moved through. Another storm moved from north to south across Pitt County, first producing dime size hail in the Greenville area, and then causing one of the worst hailstorms in memory around the Ayden area in southern Pitt County. Crops were severely damaged in that section. Trees were blown over west of Dudley in Wayne County, and near Peacocks Crossroads in Johnston County. Southeast of Raeford in Hoke County, one building was blown over at Davis Crossroads, and many trees were reported down in that part of the county. Dime size hail was seen at Newton Grove. In central Davie County, winds destroyed a new, large barn along with 750 bales of hay.</p>				
Dare County	24	1630EST			0	0	4	0	Hail (0.75), Lightning
					<p>Severe storms continued in Dare County. Lightning became the most noteworthy feature as several fires were set when residences were struck. One home had a two by four foot hole blown in the wall from a lightning bolt.</p>				
Cumberland County	24	1635EST			0	0	4	0	Thunderstorm Winds (60)
Robeson County	24	1728EST			0	0	?	?	Hail (1.00)
Robeson County	24	1750EST			0	0	?	?	Hail (0.75)
Craven County	24	1800EST			0	0	?	?	Thunderstorm Winds
Robeson County	24	1900EST			0	0	3	0	Thunderstorm Winds
					<p>Up to 3000 customers in the Fayetteville area were without power following a severe storm which blew down numerous trees. Power lines were also blown down. Quarter size hail was observed at Parkton in Robeson County. Dime size hail was reported in Lumberton, and large trees were blown across highways and power lines in the county. Some trees were blown down east of New Bern in Craven County.</p>				
— NORTH CAROLINA									
Gates County	28	1420EST	1	20	0	0	0	0	Tornado (F0), Thunderstorm Winds
Edgecombe County	28	1515EST			0	0	?	0	Thunderstorm Winds
Chowan County	28	1519EST	1	50	0	0	4	0	Tornado (F1)
Bertie County	28	1522EST			0	0	4	0	Thunderstorm Winds
					<p>Severe thunderstorms erupted in northeast North Carolina once again. A small tornado was observed by storm spotters as it moved through the Gatesville and Gates areas of Gatesville County. No damage from the tornado was reported; but thunderstorm winds blew down numerous trees and power lines, especially in the Sunbury area. A stronger tornado was reported at 1519EST at Rocky Hook in Chowan County, removing the roof of a house. Trees were blown down along with power lines throughout Bertie County as a line of storms moved through. Many residents of this region of the state were without power for several hours following the storms. Trees were blown down between Tarboro and Leggett in Edgecombe County.</p>				
Harnett County	28	1530EST			0	0	4	?	Thunderstorm Winds
Harnett County	28	1545EST			0	0	3	0	Thunderstorm Winds
Harnett County	28	1600EST			0	0	3	0	Thunderstorm Winds
Harnett County	28	1600EST			0	0	4	5	Thunderstorm Winds, Hail (0.75)
Martin County	28	1600EST			0	0	?	?	Hail (0.75), Thunderstorm Winds
					<p>Severe storms raked Harnett County from one end to the other. Roofs were blown off barns and a mobile home was damaged at Marners, and trees and power lines were blown down at Lillington at 1530EST. At 1545EST, power lines and trees were blown down at Erwin. At 1600EST, power lines were blown down at Dunn and, at the same time, roofs were blown off barns across the county. Also, heavy damage to crops was reported in the Seminole area of the county. Thunderstorm winds and hail were reported in the Williamston and Robersonville areas of Martin County at about the same time.</p>				
Dare County	28	1633EST			0	0	0	0	Waterspout
					<p>A waterspout was observed over the Croatan Sound near Manteo.</p>				
Chatham County	28	1640EST			0	0	5	0	Thunderstorm Winds
Pitt County	28	1640EST			0	0	3	?	Thunderstorm Winds
Wayne County	28	1645EST			0	0	5	?	Thunderstorm Winds
Cumberland County	28	1710EST			0	0	5	?	Thunderstorm Winds (55)
Wayne County	28	1715EST			0	0	5	5	Thunderstorm Winds
Lenoir County	28	1715EST			0	0	4	0	Thunderstorm Winds
Lenoir County	28	1725EST			0	0	3	0	Thunderstorm Winds
Harnett County	28	1730EST			0	0	0	0	Thunderstorm Winds
Cumberland County	28	1730EST			0	0	5	0	Thunderstorm Winds
Cumberland County	28	1745EST			0	0	4	0	Thunderstorm Winds
Duplin County	28	1750EST			0	0	?	?	Thunderstorm Winds
Alamance County	28	1800EST			0	0	5	?	Thunderstorm Winds, Lightning
Johnston County	28	1800EST			0	0	4	0	Thunderstorm Winds
Robeson County	28	1843EST			0	0	?	?	Thunderstorm Winds
Duplin County	28	1901EST			0	0	?	?	Thunderstorm Winds
					<p>Two mobile homes were severely damaged by high winds six miles south of Siler City in Chatham County. Trees and power lines were blown down as a storm moved south across Pitt County. In Wayne County, the roof of a school was partially removed at 1645EST in the north-east part of the county, and then the storm swept across the eastern and southern sections of the county, causing considerable damage to barns, and trees and power lines. Near LaGrange, the top of a mobile home was blown off at 1715EST, and the storm blew windows out in Kinston at 1725EST. At Ft. Bragg, gusts to 55 knots were measured and some damage was reported around the post. As the storm moved south through Cumberland County, more damage occurred when trees and power lines fell. A few trees fell on cars and homes, especially in the northern part of the county. Another severe storm developed in Harnett County, blowing trees across roads south of Kipling. A major power line was blown down at Benson in Johnston County, and other typical storm damage was reported. At 1750EST, trees were blown down 5 miles NE of Kenansville in Duplin County, and at Beulaville winds blew down trees and tore the porch off a trailer at 1901EST. In northern Robeson County, a tree was blown down and the tops were blown out of others. Just south of Burlington, several large trees were uprooted. Two cows were killed by lightning, and a church burned when struck by lightning.</p>				

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 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	
— NORTH CAROLINA											
Guilford County	28	2026EST			0	0	?	?			Thunderstorm Winds
Rockingham County	28	2045EST			0	0	?	?			Thunderstorm Winds
Wilson County	28	2200EST			0	0	3	0			Thunderstorm Winds
Rockingham County	28	2228EST			0	0	5	0			Thunderstorm Winds
Johnston County	28	2315EST			0	0	3	0			Thunderstorm Winds
Rockingham County	28	2315EST			0	0	5	0			Thunderstorm Winds
					<p>A gust to 52 knots was measured by a spotter just north of the High Point city limits at 2026EST. Trees were blown down in Reidsville at 2045EST. At Wilson, trees were blown down along Highway 42 just west of town and the roof was blown off a baseball dugout. New storms developed in the northwest part of the state. At 2228EST, in Stoneville, a mobile home was overturned and destroyed. And at Eden, a garage was destroyed at 2315EST. At the same time, a severe storm was moving across extreme northern Johnston County, blowing down trees. This event was observed by a group of state employees at the Corinth-Holder area.</p>						
Wake County	29	0100EST			0	0	4	0			Flash Flood
					<p>Slow-moving, intense thunderstorms produced over 5 inches of rain in a two hour period, which caused small streams to overflow, and caused rather severe urban flooding in Wendell until late the next morning. Water was a couple feet high in some businesses along Main Street at one point. Some highway flooding was also reported.</p>						
Mecklenburg County	29	1600EST			0	0	3	0			Thunderstorm Winds
					<p>Trees and power lines were blown down in the eastern part of the county. Damage was noted in the Mallard Creek and Church Creek Roads areas.</p>						
Wayne County	29	2045EST			0	0	5	?			Thunderstorm Winds
					<p>In the Seven Springs area, roofing was torn from houses, debris from damaged property caused more damage to fences, and trees and power lines were blown down. \$2000 damage to one turkey house was reported. Winds were estimated at up to 80 mph.</p>						
Chatham County	30	2045EST			0	0	3	0			Thunderstorm Winds
					<p>Trees were blown across roads in the Pittsboro area and elsewhere in the county.</p>						
Statewide		All Month			0	0	0	?			Drought
					<p>By June it had become apparent that the lingering dry weather was becoming more than just a concern across the state. Rainfall totals for the past 6 months were just fractions of normals, especially in the western half of the state. Some wells had already begun to dry up, and ponds and streams were very low. Crop losses were obviously going to be severe, but no estimates were available so early in the growing season.</p>						
32 NORTH DAKOTA											
Rolette Co. (St. John)	02	1820CST			0	0	0	0			Tstm. Wind (52)
					<p>A postal employee reported wind gusts to 60 mph and reduced visibilities in blowing dust.</p>						
Towner Co. (10NE Cando)	02	1844CST			0	0	0	0			Tstm. Wind (56)
					<p>The high winds reduced visibilities to 1/2 mile in blowing dust.</p>						
Western Cavalier Co.	02	1845-1945CST			0	0	0	0			Tstm. Wind (52)
					<p>Strong winds occurred over large section of Western Cavalier County. At 1915CST, 60 mph winds were reported 11 miles west of Langdon by a State Weather Modification Observer. At 1930CST, there were unconfirmed reports of 80 mph wind gusts near a missile silo. The high winds reduced visibilities to 1/2 mile in blowing dust.</p>						
Renville Co. (8W Mohall)	02	1900CST									Funnel
					<p>A funnel cloud was reported by a Skywarn Spotter.</p>						
Renville Co. (3SW Mohall)	02	1905CST			0	0	?	?			Hail (1.0)
					<p>Hail one-inch in diameter occurred. The hail was five to six inches deep.</p>						
Renville Co. (Mohall)	02	1935CST			0	0	0	0			Hail (0.75)
					<p>Hail 3/4 of an inch in diameter was reported.</p>						
Barnes Co. (3E Echelson)	03	1440CST			0	0	0	0			Hail (1.75)
					<p>Golfball-sized hail was reported by the Highway Patrol.</p>						
— NORTH DAKOTA											
Logan Co. (7W Kulm)	03	1630CST			0	0	0	0			Hail (2.75)
					<p>Baseball-sized hail occurred.</p>						
LaMoure Co. (Kulm)	03	1630CST			0	0	0	0			Hail (2.75)
					<p>Baseball-sized hail occurred.</p>						
LaMoure Co. (35S Jamestown)	03	1643CST									Funnel
Oliver Co. (4W Hannover)	06	1635CST			0	0	0	0			Hail (1.75)
					<p>Golfball-sized hail was reported.</p>						
Oliver Co. (3W Center)	06	1638CST			0	0	0	0			Hail (1.75)
					<p>Golfball-sized hail was reported.</p>						
Oliver Co. (4W Center)	06	1700CST			0	0	0	0			Hail (1.75)
					<p>Golfball-sized hail was reported by law enforcement officials.</p>						
Bowman Co. (1NE Bowman)	06	1720CST									Funnel
Adams Co. (Hettinger)	06	1721CST			0	0	0	0			Hail (0.75)
					<p>A Ham radio operator reported hail 3/4 inch in diameter.</p>						
McIntosh Co. (15N Eureka, SD)	06	1805CST			Short 5-15	0	0	0	0		Tornado (F0)
					<p>A brief tornado touched down, causing no reported damage.</p>						
Morton Co. (9NNE New Salem)	09	1840CST									Funnel
Grant Co. (5W Carson)	09	2124CST									Funnel
Mountrail Co.	14	Evening			0	0	5	5			Lightning, Heavy Rains
					<p>Rainfall amounts of up to 4-1/2 inches caused severe local crop damages. Sunflowers were beaten down, other crops drowned, and pot holes filled with water. The heavy rains were accompanied by damaging lightning, which burned 160 hay bales on a farm near New Town. The lightning caused another fire, which destroyed a quantity of oil and three storage tanks about seven miles south-east of Stanley.</p>						
Williams Co. (5N Ray)	14	1926CST			0	0	0	0			Hail (1.75)
					<p>Golfball-sized hail was reported.</p>						
Williams Co. (Ray)	14	2100CST			0	0	0	0			Hail (1.75)
					<p>Golfball-sized hail was reported by a sheriff's deputy.</p>						
Williams Co. (17SE Williston)	14	2100CST			0	0	0	0			Waterspout
Foster Co. (Carrington)	15	1332CST			0	0	0	0			Hail (0.75)
					<p>Hail 3/4 of an inch in diameter was reported by the Foster County Sheriff.</p>						
Stutsman Co. (Courtney)	15	1424CST			0	0	0	0			Hail (2.0)
					<p>Hail 2 inches in diameter was reported.</p>						
Wells/Foster Co. Line	15	1446CST									Funnels
					<p>Several funnel clouds were sighted.</p>						
Wells Co. (9S Fessenden)	15	1447CST			Short 5-15	0	0	0	0		Tornado (F0)
					<p>A brief tornado touchdown occurred.</p>						
Ransom Co. (Englevale)	15	1520CST			0	0	0	0			Hail (1.0)
					<p>Hailstones of at least one inch in diameter were reported by a Weather Modification Observer.</p>						
Barnes Co. (Valley City)	15	1529CST			0	0	0	0			Hail (1.75)
					<p>Golfball-sized hail was reported by the sheriff's office.</p>						
Sargent Co. (16S Lisbon)	15	1538CST			0	0	0	0			Hail (1.75)
					<p>Golfball-sized hail was reported by State Weather Modification Observer.</p>						
Richland Co. (Lidgerwood)	15	1627CST			0	0	0	0			Hail (2.0)
					<p>Hail 2 inches in diameter was reported.</p>						

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1986

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

NORTH DAKOTA

Griggs Co. Hannafoord 2W Hannafoord 3E Walum	15 1645CST 15 1650CST 15 1700CST		2.0 100 0.1	100 30	0 0 0	0 0 0	0 0 0	0 0 0	Funnels Tornado (F2) Tornado (F2)
Several funnel clouds were sighted in the Hannafoord area at 1645CST. At 1650CST, a tornado touched down 2 miles west of Hannafoord and broke poles on a power transmission line. The tornado then moved two miles southeast (occasionally lifting off the ground) breaking electrical lines, causing power outages. On a farm 1 mile southeast of Hannafoord, the tornado uplifted a garage, without damaging the car inside; destroyed a stone barn, quonset hut and storage shed; uplifted a grain bin; and deposited some of the debris onto a nearby field.									
The second tornado touched down 3 miles east of Walum at 1700CST. This tornado uplifted a steel bin and deposited the remains in a field a quarter-mile away, destroyed a quonset hut, and uprooted large trees.									
Barnes Co. (3N Dazey)	15 1646CST	Short 5-15	0	0	0	0	0	0	Tornado (F0)
A brief tornado touchdown occurred.									
Southern Steele Co.	15 1655CST								Funnels
Several funnel clouds were sighted by Air Force weather observers.									
Barnes Co. (50NW Fargo)	15 1715CST								Funnels
Several funnel clouds were sighted.									
Steele Co. (12W Portland)	15 1805CST								Funnel
A funnel cloud was sighted by a Cooperative Observer.									
Cass Co. (Casselton)	17 2058CST				0	0	0	0	Hail (1.0)
Hail one inch in diameter occurred.									
Cass Co. (Mapleton)	17 2107CST				0	0	0	0	Hail (1.75)
Golfball-sized hail occurred.									
Cass Co. (West Fargo)	17 2125CST				0	0	0	0	Hail (1.0)
Hail one inch in diameter was reported by a Red Cross volunteer.									
Cass Co. (5W Prosper)	17 2151CST				0	0	0	0	Hail (3.0)
Hail 3 inches in diameter was reported by a Skywarn Spotter.									
Cass Co. (Fargo)	17 2215CST				0	0	0	0	Hail (1.25)
Hail 1 1/4 inches in diameter was reported by an evacuation unit.									
Burke Co. (Larson)	19 1145CST				0	0	0	0	Hail (1.25)
Hail 1 1/4 inches in diameter was reported.									
Burke Co. (Noonan)	19 1300CST				0	0	0	0	Hail (1.75)
Golfball-sized hail was reported.									
Burke Co. (Lignite)	19 1411CST				0	0	0	0	Tstm. Wind (52)
Wind gusts to 60 mph occurred.									
Sheridan Co. (McClusky)	19 1707CST				0	0	0	0	Hail (0.75)
Hail 3/4 of an inch in diameter was reported.									
Benson Co. (Maddock)	19 1907CST				0	0	0	0	Hail (0.75)
Hail 3/4 of an inch in diameter was reported.									
Stutsman Co. (Streeter)	19 2015CST								Funnel
Cavalier/Ramsey Co. Line (30N Devils Lake)	19 2030CST				0	0	0	0	Tstm. Wind (56)
Wind gusts to 65 mph were reported by an Air Force weather observer.									
Stutsman Co. (5NW Gackle)	19 2031CST								Funnel
A funnel cloud was reported by State Law Enforcement officials.									
Cavalier Co. (40NE Devils Lake)	19 2045CST				0	0	0	0	Tstm. Wind (50)
Wind gusts to 58 mph were reported by an Air Force weather observer.									
Cavalier Co. (Dresden)	19 2100CST				0	0	0	0	Tstm. Wind (55)
Wind gusts to 63 mph were reported by an Air Force weather observer.									
Cavalier Co. (8S Munich)	19 2100CST				0	0	5	0	Lightning
Lightning struck and burned a farm home. The home was totally destroyed.									

NORTH DAKOTA

Cavalier Co. (30N Devils Lake)	19 2112CST				0	0	0	0	Tstm. Wind (61)	
Wind gusts to 70 mph were reported.										
Stutsman Co. (12NW Streeter)	19 2114CST				0	0	0	0	Hail (2.0)	
Chicken egg-sized hail was reported.										
LaMoure Co. (10W Dickey)	19 2116CST								Funnels	
Two funnel clouds were sighted.										
Burleigh Co. (Bismarck)	19 2248CST				0	0	0	0	Hail (1.75)	
Golfball-sized hail occurred at a high school at the center of the city and at a shopping mall on the south side of the city.										
Burleigh Co. (Bismarck)	19 2304CST				0	0	0	0	Hail (1.75)	
Golfball-sized hail was reported at a trailer court in the north-east part of the city.										
Walsh Co. (Veselay)	20 0558CST				0	0	0	0	Hail (1.0)	
Hail one inch in diameter occurred.										
Williams Co. (2SE Williston)	20 Evening				0	0	4	0	Lightning	
Lightning set an oil storage tank on fire.										
Adams Co. (Hettinger)	20 1925CST				0	0	0	0	Tstm. Wind (52)	
Wind gusts to 60 mph were reported by Ham radio operators.										
Hettinger Co. (Regent)	20 2010CST				0	0	0	0	Tstm. Wind (52)	
Wind gusts to 60 mph were reported.										
Stark Co. (Richardton)	20 2040CST				0	0	0	0	Tstm. Wind (52)	
Wind gusts to 60 mph were reported.										
Stark Co. (8NE Dickinson)	25 1905CST				0	0	4	0	Tstm. Wind	
Strong winds blew down a satellite dish and the roof of a pole barn.										
Williams Co. (Williston)	25 2237CST				0	0	0	0	Tstm. Wind (55)	
A wind gust to 63 mph was recorded at the Williston airport.										
Bottineau Co. (6N Bottineau)	26 1537CST	Short 5-15	0	0	0	0	0	0	Tornado (F0)	
A brief tornado touchdown was reported by an off-duty NWS employee.										
Bottineau Co. (6N Westhope)	26 1548CST				0	0	5	5	Hail (1.75)	
Hail severely damaged crops in a 3-mile wide and 8-mile long area over central Bottineau County. At 1548CST, golfball-sized hail broke windows at the Port of Entry station on the North Dakota side of the international border, 6 miles north of Westhope.										
Eastern Bottineau Co: 6W Bottineau Bottineau 9.5NW Bottineau to 4SW Bottineau	26 1607CST 26 1623CST 26 1636CST- 8:0 1655CST				0 0 0	0 0 1	0 0 6	0 0 6	0 0 6	Hail (2.75) Hail (1.75) Tornado (F3)
Baseball-sized hail was reported 6 miles north of Bottineau at 1607CST. Golfball-sized hail was reported at Bottineau at 1623CST. A tornado developed 9.5 miles northwest of Bottineau and was sighted just west of Carbury at 1640CST. The tornado then moved south-southeast where it was sighted 5 miles west and 1 mile north of Bottineau at 1646CST. The tornado then crossed near the intersections of Highways 5 and 14, and then moved southeast where it was last seen 4 miles southwest of Bottineau. The Bottineau County Sheriff estimated the path of the tornado to be about 8 miles long with a maximum width of 3 miles. The tornado destroyed or seriously damaged crops and buildings on at least 8 farms. The tornado also destroyed a mobile home, injuring a pregnant woman inside and killing her dog. The unborn baby was unharmed. Tornado F29M (injury)										
Rolette Co. (2W Rolla)	26 1700CST				0	0	6	6	Hail (0.88)	
Quarter-sized hail was reported 2 miles west of Rolla. Hail and heavy rains caused power outages and severely damaged crops, farm dwellings and other farm buildings over eastern Rolette County. Most of the damage occurred in the southeast part of the county.										
Southern Towner Co: 2E Bisbee Cando Cando	26 1658CST 26 1722CST 26 1726CST				0 0 0	0 0 0	0 0 6	0 0 6	Hail (2.75) Tstm. Wind (56) Hail (1.75)	
Baseball-sized hail was reported 2 miles east of Bisbee at 1658CST. At 1722CST, 60 to 70 mph winds were reported at Cando, with golfball-sized hail occurring at 1726CST. The strong winds and hail broke many windows, damaged buildings, uprooted trees, and damaged crops.										

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1986

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED DAMAGE	CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS		
— NORTH DAKOTA										
Northern Pierce Co: Wolford	26	1715CST			0	0	?	?	Hail (3.0)	
Rugby	26	1730CST			0	0	6	6	Tstm. Wind	
	Hailstones of up to 3 inches in diameter occurred at Wolford at 1715CST, while strong winds occurred at Rugby at 1730CST. The hail and strong winds downed trees, caused power outages, and damaged crops and farm buildings.									
Benson Co. (Leeds)	26	1730CST			0	0	6	6	Tstm. Wind (52)	
	Strong winds, combined with heavy rains, damaged crops and farm buildings. Wind gusts to 60 mph were reported at Leeds at 1730CST.									
Ramsey Co: Starkweather	26	1744CST			0	0	?	?	Hail (1.75)	
Devils Lake	26	1800CST			0	12	6	6	Tstm. Wind (75)	
Devils Lake	26	1812CST			0	0	?	?	Hail (2.75)	
Doyon	26	1850CST			0	0	5	5	Tstm. Wind	
	Strong winds to near 90 mph occurred in the city of Devils Lake from 1800CST to 1812CST, accompanied by very heavy rains. This combination demolished the top floor of a motel wing, injuring occupants inside. The winds also damaged roofs of nearby buildings, toppled commercial signs, uprooted large trees, knocked down fences, and caused power outages throughout the city. At 1812CST, baseball-sized hail occurred in Devils Lake, damaging cars. A total of 12 people were injured by the storm, most incurring cuts and bruises. About 200 farm dwellings and buildings in southern Ramsey County had wind damage.									
	Partial to total crop damage due to widespread hail occurred in a 5-mile strip from the northwest corner of the county to the southeast corner. At 1744CST, golfball-sized hail was reported at Starkweather.									
	In the town of Doyon, strong winds occurred at 1850CST, destroying 3 grain bins, uprooting trees, and blowing down power lines.									
Nelson Co: 30SE Devils Lake	26	1900CST			0	0	?	?	Tstm. Wind (60)	
8N McVillie	26	1900CST			0	0	?	?	Hail (1.75)	
Lakota	26	1900CST			0	0	6	6	Tstm. Wind	
	Wind gusts to 70 mph were reported in western Nelson County, 30 miles southeast of Devils Lake at 1900CST. Also at about 1900CST, golfball-sized hail was reported 8 miles north of McVillie. In Lakota, the strong winds blew grain bins into a home, toppled a radio tower, and uprooted trees. Most of the wind and hail damage to crops and farm buildings occurred in the southern part of the county.									
Williams Co. (3N Williston)	27	1642CST			0	0	0	0	Hail (1.75)	
	Golfball-sized hail occurred.									
Williams Co. (Epping)	27	1703CST			0	0	0	0	Hail (1.75)	
	Golfball-sized hail occurred.									
McKenzie Co: Alexander	27	1705CST			0	0	?	?	Hail (1.75)	
Rawson	27	1715CST			0	0	?	?	Hail (1.75)	
15SSW Watford City	27	1715CST			0	0	6	6	Hail (1.75), Funnel	
	Golfball-sized hail was reported at Alexander at 1705CST, at Rawson at 1715CST, and by the Park Ranger at the North Unit of Theodore Roosevelt National Park, 15 miles SSW of Watford City, at 1715CST. The ranger also sighted a funnel cloud at the same time. The hail and heavy rains damaged windows and vehicles, farm structures and equipment, and cropland.									
Dunn Co. (Dunn Center)	27	1719CST							Funnel	
Morton Co. (1NW Hebron)	27	1745CST			0	0	?	?	Hail (2.0)	
	Hail 2 inches in diameter broke windows and damaged surrounding cropland.									
Dunn Co. (Killdeer)	27	1800CST	Short 5-15		0	0	4	0	Tornado (F0)	
	A tornado uprooted a large cottonwood tree, damaging a restaurant building and a vehicle.									
Dunn Co. (Killdeer)	27	1812CST			0	0	6	6	Hail (1.75)	
	Hail, combined with heavy rains, damaged cropland, farm dwellings and structures, and farm equipment. Golfball-sized hail was reported at Killdeer.									
Golden Valley Co.	27	Evening			0	0	6	6	Tstm. Heavy Rains	
	Heavy rains and water runoff damaged crops, pasture, and hay fields. Farm structures and equipment also received water damage.									
— NORTH DAKOTA										
Morton Co: Glen Ullin	27	1940CST			0	0	6	6	Hail (1.75)	
Flasher	27	2028CST			0	0	?	?	Hail (0.75)	
	Golfball-sized hail was reported at Glen Ullin at 1940CST. Hail 3/4 of an inch in diameter was reported at Flasher at 2028CST. The hail damaged crops, pasture, and hay fields. Farm dwellings and structures were also damaged.									
Sioux Co. (Selfridge)	27	2100CST			0	0	?	?	Hail (0.75)	
	Hail 3/4 of an inch was reported.									
Morton Co. (Breien)	27	2103CST			0	0	5	0	Tstm. Wind (64)	
	75 mph winds uprooted trees and knocked down a grain elevator.									
Emmons Co. (15W Linton)	27	2130CST			0	0	6	6	Hail (2.75)	
	Baseball-sized hail damaged campers and vehicles along the Missouri River, about 15 miles west of Linton. The hail also damaged cropland, pasture, and hay fields throughout a large section of southern Emmons County.									
Golden Valley Co. (5N Beach)	29	0630CST			0	0	*5	C	Tstm. Wind, Heavy Rains	
	Strong winds, combined with heavy rains, destroyed a grain bin and fuel tank, and damaged a pickup truck. The heavy rains (up to 3.6 inches fell in western Golden Valley County) damaged cropland.									
Grant Co. (10SE Elgin)	29	0830CST	Short 5-15		0	0	*5	C	Tornado (F1), Tstm. Wind	
	A tornado, combined with strong downburst winds and heavy rains, destroyed a calf shelter and a grain bin, and damaged several other grain bins, a barn and a garage.									
Morton Co. (Glen Ullin)	30	2015CST							Funnel	
	Several funnel clouds were spotted by law enforcement officials.									
Morton Co. (2E Hebron)	30	2015CST	Short 5-15		0	0	0	0	Tornado (F0)	
	A tornado was spotted by a sheriff's deputy.									
Morton Co. (6SE Hebron)	30	2034CST	Short 5-15		0	0	0	0	Tornado (F0)	
	A tornado was spotted on a pasture by an I-94 exit. The tornado moved briefly on the pasture, then retreated into the cloud.									
Morton Co. (1N Almont)	30	2150CST	Short 5-15		0	0	*5	C	Tornado (F0), Heavy Rains	
	A tornado destroyed the roof of a home. The tornado was accompanied by heavy rains and lots of pea-sized hail. The rain and hail damaged surrounding cropland, and hail piled up several inches deep.									
33 OHIO										
Trumbull County	04	1800EST			0	0	4	0	Thunderstorm Wind	
	A thunderstorm felled several trees in Warren.									
Stark County	05	1710EST			1	0	0	0	Lightning	
	Lightning struck a 12 year old boy watching a baseball game from under a tree in North Canton. The child died June 18. M120.									
OHZ001 Williams County	07	0400EST			0	0	?	0	Flood	
	The Saint Joseph River began flooding near Montpelier. The river crested at a stage of 12.2 feet (flood stage 12 feet) at Montpelier at 0700EST on the 7th. Little damage resulted.									
Belmont County	07	1830EST			0	0	4	0	Thunderstorm Hind	
	Thunderstorm winds moved a home off its foundation in Martins Ferry and destroyed a tree in St. Clairsville.									
Highland County	10	1420EST	3.5	75	0	0	5	0	Tornado (F1)	
	A tornado touched down on the west edge of Hillsboro and traveled to the northern part of the city. Two houses and 4 other buildings suffered considerable damage.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1986

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					KILLED	INJURED	PROPERTY	CROPS	
OHIO									
Madison and Franklin Counties	10	1830EST	15.8	75	0	0	5	0	Tornado (F1), Thunderstorm Wind
									A tornado set down about 2 miles north of London in Madison County. The storm traveled a hit-skip path almost due east, entered Franklin County about 1850EST, and lifted near Galloway at 1900EST. Several outbuildings were destroyed and several barns and homes were damaged. Thunderstorm winds caused scattered damage in Madison County around 1830EST, and in Franklin County about 1900EST.
Franklin County	10	1900EST			0	0	6	0	Flash Flood
									About two inches of rain fell in a half hour over much of the county, causing widespread urban flooding.
OHZ003 Northeast Ohio	10-	Evening			0	0	6	6	Flash Flood
	12	Afternoon							From late June 10th to the afternoon of June 12th, heavy rains occurred at various places in northeast Ohio. In some locations, 4 to 5 inches were received in about 4 hours. Moderate to major urban flooding and small stream flooding resulted, especially in the city of Ashtabula, where at least one business was inundated. Damage was also extensive in Trumbull County. Altogether, more than 1000 homes suffered flood damage. Roads and bridges were washed out in some places and so were many crops.
Ottawa County	10	2003EST	18	75	0	0	6	0	Tornado (F1) / Waterspout
									A tornado set down east of Oak Harbor. The storm traveled northeast, crossing over Lake Erie in the area around Camp Perry. The tornado made landfall again in the southwest part of Catawba Township and then traveled almost due east. Final liftoff occurred just west of Lakeside at about 2035EST. The tornado destroyed one home, two boat storage buildings and several other outbuildings. Considerable structural damage occurred at the Erie Industrial Park and Camp Perry, and garages were deroofed at several locations.
Ashtabula County	10	2300EST	.3	100	0	0	4	0	Tornado (F1)
									A tornado set down about 3 miles southwest of the city of Ashtabula, damaging some outbuildings.
Stark County	11	1545EST			0	0	4	0	Thunderstorm Wind
									A thunderstorm destroyed trees in Navarre. Two pickup trucks were damaged.
Gallia County	11	1635EST			0	1	0	0	Lightning
									A 19 year old man suffered minor burns when lightning struck a tree he was under. The incident occurred in Gallipolis.
OHZ004 Trumbull County	12	1400EST			0	0	?	0	Flood
									The Mahoning River began flooding at Leavittsburg. The river crested at a stage of 11.1 feet (flood stage 10 feet) at Leavittsburg at 2000EST on the 12th, causing little damage.
Putnam County	15	1530EST			0	0	4	0	Thunderstorm Wind
									Numerous trees were knocked over by a thunderstorm in Leipsic.
Sandusky County	15	1730EST			0	0	4	0	Thunderstorm Wind
									Falling trees damaged 4 cars in Clyde.
Knox County	15	1800EST			0	0	4	0	Thunderstorm Wind
									Trees were downed by a thunderstorm in Mount Vernon.
Summit County	15	2000EST			0	0	4	0	Thunderstorm Wind
									A thunderstorm downed several trees. The worst damage was in Franklin Township.
Muskingum County	15	2100EST			0	0	3	0	Thunderstorm Wind
									A thunderstorm destroyed at least two trees in the south-central part of the county.
OHIO									
Erie County	16	1506EST			0	0	4	0	Thunderstorm Wind
									Sixty mile an hour winds were observed at the Sandusky docks.
Van Wert County	16	1525EST			0	0	4	0	Thunderstorm Wind
									A thunderstorm felled several trees in Ohio City.
Allen County	16	1600EST			0	0	4	0	Thunderstorm Wind
									Trees were downed by a thunderstorm in Spencer-ville.
Huron County	16	1600EST			0	0	3	0	Hail (.75)
									Large hail was observed at Wakeman.
Lake County	16	1620EST			0	0	4	0	Thunderstorm Wind
									A thunderstorm knocked over several trees and damaged some buildings in Eastlake and Willoughby.
Lorain County	16	1622EST			0	0	4	0	Thunderstorm Wind
									A thunderstorm destroyed several trees in Wellington.
Auglaize County	16	1630EST			0	0	3	0	Hail (.75)
									Large hail fell at the junction of State Routes 66 and 197.
Richland County	16	1630EST			0	0	4	0	Thunderstorm Wind
									A thunderstorm knocked over several trees in Shelby.
Medina County	16	1648EST			0	0	4	0	Hail (1.25)
									Large hail was observed at Medina.
Crawford County	16	1700EST			0	0	4	0	Thunderstorm Wind
									A thunderstorm downed several trees near the junction of State Highways 598 and 39.
Summit County	16	1738EST			0	0	4	0	Thunderstorm Wind
									Sixty mile an hour winds were observed at the Chapel Hill Mall.
Summit County	16	1758EST			0	0	3	0	Hail (.75)
									Large hail fell on Talmage.
Trumbull County	16	1813EST			0	0	4	0	Thunderstorm Wind
									Sixty mile an hour winds destroyed several trees in Kinsman.
Tuscarawas County	16	1830EST			0	0	4	0	Thunderstorm Wind
									A thunderstorm dropped several trees and damaged a shed around Sugar Creek.
Mahoning County	16	1845EST			0	0	4	0	Hail (1.0)
									Large hail was observed at Canfield.
Butler County	16	1930EST			0	0	4	0	Thunderstorm Wind
									Trees were knocked over by a thunderstorm in Oxford.
Warren County	16	1945EST			0	0	4	0	Thunderstorm Wind
									A thunderstorm downed trees in Waynesville.
Lucas County	19	1130EST			0	1	2	0	Lightning
									Lightning struck a tennis club in Sylvania, causing minor burns to a 41 year old man.
Auglaize County	20	0200EST			0	0	4	0	Thunderstorm Wind
									Several trees were destroyed by a thunderstorm in Wapakoneta.
Allen County	20	0225EST			0	0	4	0	Thunderstorm Wind
									A thunderstorm toppled several trees in Lima.
Fairfield County	20	0230EST			0	0	3	0	Thunderstorm Wind
									A thunderstorm downed trees in the county, damaging a car.

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					KILLED	INJURED	PROPERTY	CROPS	
OKLAHOMA									
									<p>southwest. The hail did considerable damage to the wheat crop, but no estimate of damages was available. The strong winds destroyed several barns and outbuildings, downed powerlines and poles, and rolled a mobile home over just west of Lone Wolf. Wind damage also occurred to the State Reformatory at Granite, and was valued at over \$50,000.</p>
Kay County	10	1430CST			0	0	?	?	Hail (0.88), Tstm. Wind
Comanche County	10	1440CST			0	0	?	?	Hail (1.75)
Oklahoma County	10	1500CST			0	0	?	?	Hail (0.88)
Cotton County	10	1500CST			0	0	?	?	Tstm. Wind
Grady County	10	1500CST			0	0	?	?	Hail (0.88)
Grady County	10	1515CST			0	0	?	?	Hail (0.88)
Oklahoma County	10	1515CST			0	0	?	?	Hail (0.88)
Canadian County	10	1515CST			0	0	?	?	Hail (0.88)
McClain County	10	1525CST			0	0	?	?	Tstm. Wind
Logan County	10	1530CST			0	0	?	?	Tstm. Wind
Canadian County	10	1530CST			0	0	?	?	Hail (0.88)
Oklahoma County	10	1640CST			0	0	?	?	Tstm. Wind
Payne County	10	1700CST			0	0	?	?	Tstm. Wind
Pontotoc County	10	1700CST			0	0	?	?	Tstm. Wind
Wagoner County	10	1737CST			0	0	?	?	Tstm. Wind
Tulsa County	10	1737CST			0	2	?	?	Tstm. Wind
Rogers County	10	1745CST			0	0	?	?	Tstm. Wind
Osage County	10	1755CST			0	0	?	?	Tstm. Wind
Hayes County	10	1835CST			0	0	?	?	Tstm. Wind
Craig County	10	1838CST			0	0	?	?	Tstm. Wind
Nowata County	10	1840CST			0	0	?	?	Tstm. Wind
Craig County	10	1840CST			0	0	?	?	Hail (0.88)
Delaware County	10	1900CST			0	0	5	?	Tstm. Wind
									<p>Thunderstorms produced hail between 3/4 inch and golfball size with winds 60 to 70 mph. Winds caused a large tent to blow down, injuring two workers in Tulsa. Winds up to 80 mph occurred in Delaware County, doing \$500,000 damage to mobile homes, houses, power lines and poles, and a church in Jay.</p>
Kay County	14	1215CST			0	0	?	?	Hail (0.88)
Kay County	14	1223CST			0	0	?	?	Hail (1.50)
Noble County	14	1330CST			0	0	?	?	Hail (1.75)
Kay County	14	1330CST			0	0	?	?	Hail (0.88)
Kingfisher County	14	1348CST			0	0	?	?	Hail (0.88)
Kingfisher County	14	1400CST			0	0	?	?	Hail (0.75)
Osage County	14	1400CST			0	0	?	?	Hail (0.75)
Kingfisher County	14	1415CST			0	0	?	?	Hail (0.75)
Garfield County	14	1415CST			0	0	?	?	Hail (0.88)
Harper County	14	1518CST			0	0	?	?	Hail (1.00)
Harper County	14	1530CST			0	0	?	?	Hail (0.75)
Oklahoma County	14	1607CST			0	0	?	?	Hail (0.75)
Canadian County	14	1620CST			0	0	?	?	Hail (1.75)
Oklahoma County	14	1625CST			0	0	?	?	Hail (0.75)
Kingfisher County	14	1625CST			0	0	?	?	Hail (0.75)
Lincoln County	14	1634CST			0	0	?	?	Tstm. Wind
Ellis County	14	1650CST			0	0	?	?	Hail (0.75)
Ellis County	14	1715CST			0	0	?	?	Hail (0.75)
Ellis County	14	1737CST			0	0	?	?	Hail (0.75)
Canadian County	14	1815CST			0	0	?	?	Hail (0.75)
Canadian County	14	1830CST			0	0	?	?	Hail (1.25)
Caddo County	14	1838CST			0	0	?	?	Hail (1.25)
Canadian County	14	1900CST			0	0	?	?	Hail (0.75)
Caddo County	14	1925CST			0	0	?	?	Hail (1.75)
Garfield County	14	2118CST			0	0	?	?	Tstm. Wind
									<p>Hail ranging from 3/4 inch to golfball size damaged wheat, autos, and houses. Winds of over 70 mph hit Stroud, downing trees and several power poles. Several buildings and mobile homes were damaged, and an airplane and hangar were damaged at the airport.</p>
Kingfisher, Garfield, and Noble Counties	14	1800-2000CST			0	0	?	?	Flash Flooding
									<p>Four to six inch rains in a few hours caused many small creeks to flood. Several bridges were washed out and many were heavily damaged. Highway 15 east of Billings, and US 77 north of Perry were closed for a short period. Three houses were flooded in Carrier. No estimate of damage to bridges and roads was available.</p>
Garfield County	16	0545CST			0	0	?	?	Hail (1.75)
Canadian County	16	0730CST			0	0	?	?	Hail (0.88)
Oklahoma County	16	0845CST			0	0	?	?	Hail (0.88)
Greer County	16	1132CST			0	0	?	?	Hail (1.00)
									<p>Hail ranging from the size of nickels to golfballs fell in central and southwest sections.</p>
Woods County	22	1630CST			0	0	?	?	Hail (0.75)
Custer County	22	1630CST			0	0	?	?	Hail (0.75)
									<p>3/4 inch size hail fell.</p>
OKLAHOMA									
Custer County	22	1700CST			1	0	0	0	Lightning
									<p>A man was killed by lightning while feeding his livestock just east of Clinton, M390.</p>
Rogers County	23	0230CST			0	0	5	0	Lightning
									<p>Lightning caused a house to burn, and damages set at \$400,000 occurred.</p>
Oklahoma County	23	1331CST			0	0	?	?	Hail (1.25)
									<p>Hail ranging from 3/4 inch to quarter size fell at S.E. 15th and Eastern.</p>
Woodward County	27	1355CST			0	0	?	?	Tstm. Wind
Woodward County	27	1410CST			0	0	?	?	Hail (0.88)
Alfalfa County	27	1515CST			0	0	?	?	Tstm. Wind
Woods County	27	1530CST			0	0	?	?	Hail (0.75)
Alfalfa County	27	1535CST			0	0	?	?	Hail (0.75)
									<p>Thunderstorms produced dime to nickel size hail and gusty winds up to 70 mph in parts of the northwest.</p>
Alfalfa County	30	0915CST			0	0	4	?	Tstm. Wind
Beaver County	30	1745CST			0	0	4	?	Tstm. Wind
									<p>Winds of 70 to 80 mph caused \$20,000 damage to several barns north of Amorita. Winds of 60 to 70 mph damaged a house and destroyed several outbuildings 10 miles southeast of Slapout. Damage estimated at \$10,000 occurred.</p>
35 OREGON									
ORZ011 Enterprise, Willowa County	05	1530PST					5	5	Hail, Heavy Rain, Gusty Winds
									<p>A heavy thunderstorm caused flash flooding in and around Enterprise in Willowa County. 5 1/2 inches of rain was measured, and hail fell, accumulating to a depth of 3 inches. Numerous mud slides and road washouts occurred.</p>
IDZ001 Malheur County	05	1600MST			0	0	3	0	Flash Flood
									<p>A downpour caused minor street flooding and some water to fill basements and garages in Vale, Ontario, and Malheur.</p>
ORZ009 Lake County	05							4	Lightning
									<p>Lightning sparked a wildfire in Lake County that burned 150 acres.</p>
ORZ-005-006-009 Josephine, Jackson, and Klamath Counties	13							?	Lightning
									<p>Lightning from thunderstorms knocked out power to over 10,000 homes from Grants Pass to Klamath Falls.</p>
IDZ001 Malheur County	13	Evening			0	0	4	0	Strong Winds
									<p>Strong winds toppled trees and scattered an onion storage shed over a long distance between Vale and Ontario. Power poles were also blown down.</p>
36 PENNSYLVANIA, Eastern									
Montgomery County	11	1545EST			0	0	4	0	Lightning
									<p>A lightning strike knocked out all the power at Graterford State Prison. A few miles from the prison, a lightning-caused fire destroyed a barn.</p>
Lancaster County	11	1645EST			0	0	4	0	Lightning
									<p>Lightning caused a fire in a small barn used as a garage in Lititz around 5:45 PM EDT. The fire destroyed the barn and two automobiles parked inside, causing \$30,000 damage. At 6:50 PM EDT, trees were downed and 3/4 inch hail was observed near Middletown. Around 7:00 PM EDT, winds of 62 MPH were measured in Mount Joy. Many trees were down in Mount Joy, one of them fell on an automobile. Also, siding was torn off houses, antennas were blown down, utility lines were down and at least one plate glass window was blown in. Around 7:20 PM EDT and again around 7:45 PM EDT, many trees were blown down in the city of Lancaster. Lightning also caused minor damage to a church in Lancaster.</p>
									<p>11 1750EST 0 0 ? 0 Hail (0.75) 11 1750EST 0 0 ? 0 High Wind 11 1800EST 0 0 4 0 High Wind 11 1820EST 0 0 ? 0 High Wind 11 1845EST 0 0 ? 0 High Wind</p>

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 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		
— PENNSYLVANIA, Eastern										
York County	11	1910EST			0	0	?	0	0	High Wind
										Wind gusts brought down trees and utility lines in the area from Newberrytown to Manchester.
Perry County	11	1935EST			0	0	?	0	0	High Wind
										Wind gusts brought trees down in the area west of Liverpool.
Bucks County	16	1730EST			0	0	?	0	0	Hail (1.75)
										Golf ball size hail was reported in Quakertown. Heavy rain caused considerable flooding on roadways and parking areas, and small brooks overflowed their banks. Lightning caused a fire and minor damage to a barn near Quakertown.
Tioga County	16	1950EST			0	1	5	0	0	High Wind
										Wind gusts moved one house off its foundation and tore the roof off. Three or four other houses were damaged, ranging from a roof off to tree limbs through windows. Many trees were blown down. This all occurred in Niles Valley, 7 miles north of Wellsboro. One elderly woman was cut on her hand by flying debris. There also were reports of a funnel cloud being sighted in the area.
Bradford County	16	2003EST			0	14	6	0	0	High Wind
		2010EST			0	0	5	0	0	High Wind
										Wind gusts caused damages totaling \$690,000 to homes and businesses in Athens and Athens Township around 9:03 PM EDT and in Litchfield Township around 9:10 PM EDT. Twenty homes and five businesses in Athens, 26 homes in Athens Township and three homes, one barn and a mobile home in Litchfield Township were damaged. The second floor of a small commercial building in Athens was destroyed. The Ingersoll-Rand Plant in Athens had damages estimated at \$350,000. Although there was direct wind damage to buildings, many buildings were damaged by falling trees. Many trees were blown down. All of the injuries occurred at a fireman's carnival north of Athens near the New York state border. Booths, tents and trailers along the midway were blown over and blown around. A tractor-trailer truck was picked up and moved four feet. At least two of the injured had broken arms.
36 PENNSYLVANIA, Western										
Mercer County	04	1800-2000EST			0	0	0	0	0	Flood
										2 1/2 inches of rain fell during a thunderstorm in Mercer and Sharon, causing road and basement flooding.
Venango County	04	2000-2130EST			0	0	0	0	0	Flood
										1 1/2 to 2 1/2 inches of rain fell during thunderstorms, causing road and basement flooding at Oil City and Franklin.
Venango County	04	2130EST			0	0	3	0	0	Lightning
										A garage was set ablaze in Rocky Grove when lightning struck an adjacent tree.
Crawford County	05	Afternoon			0	0	0	0	0	Flood
										Road and basement flooding occurred at Meadville, Summit, Cambridge and Vernon Townships during thunderstorm rains.
Butler County	05	1930EST			0	1	0	0	0	Lightning
										A woman was injured in Hooker when lightning struck a tree adjacent to her house. The bolt entered the rear of the house and struck the woman as she was doing wash in the basement.
Venango County	05	2000-2100EST			0	0	0	0	0	Flood
										2 1/2 inches of rain fell during thunderstorms in the previous 24 hours, causing basement flooding and sewer backups in Cranberry.
Mercer County	05	Night			0	0	6	0	0	Lightning
										A clothing store was set ablaze by lightning in downtown Sharon.
Allegheny County	06	0100-0300EST			0	0	0	0	0	Flood
										Basement and street flooding occurred in Shaler, Millvale, and Ross Townships during thunderstorm rains.
— PENNSYLVANIA, Western										
Allegheny County	06	1200EST			0	0	0	0	0	Flood
										Two hundred residents evacuated in Shaler, O'Hara and Hampton Townships as a precautionary measure, as more than an inch and a half of rain fell during thunderstorms. Residents returned several hours later.
Erie County	10	Late night-11 Early morning			0	0	4	0	0	Flood
										Rushing water in a tributary of Elk Creek damaged a bridge in McKean Township. Road flooding from thunderstorms that dumped nearly 2 inches of rain at Albion in western Erie County occurred.
Crawford County	10	Late night-11 Morning			0	0	4	0	0	Flood
										A bridge between Conneautville and Springboro was washed out overnight as overnight rains from thunderstorms totaled over 2 inches. Road flooding occurred in Venango, Cambridge Springs, Cussewago, and Rockdale.
Mercer, Venango, Crawford, Butler, and Clarion Counties	11	Afternoon			0	0	0	0	0	Flood
										Road and basement flooding occurred at Sandy Lake (Mercer), Franklin (Venango), Meadville (Crawford), Butler (Butler), and Shippenville (Clarion) during thunderstorm rains.
Mercer County	11	Day			0	0	4	0	0	Flood
										Twenty-four Greenville homes were damaged from flooding as over 2 inches of rain fell during thunderstorms. Basement flooding and washed out roads occurred in West Salem, Hempfield, Pymatuning, Mercer, Jackson Center, Sandy Lake, Shenango, and Fredonia.
Lawrence County	11	Day into Night			0	0	4	0	0	Flood
										Neshannock Creek overflowed its banks, causing residents in Neshannock, Wilmington, and Hickory to leave their homes. Eleven persons evacuated and eighteen residences were affected by the flood. The river crested at 3 to 5 feet above flood stage as 1 to 2 inches of additional rain fell.
Allegheny County	11	Early evening			0	0	3	0	0	Lightning
										Two homes in Brackenridge and Plum were hit by lightning, causing minor damage to each.
Butler County	11	Night into 12 Early morning			0	0	3	0	0	Flood
										Heavy thunderstorm rains of over 2 inches in 24 hours forced creeks out of their banks, causing flooded roads and basements. One family in Forestville evacuated when stream water caused a cellar wall to collapse. Road and basement flooding occurred in Karns City, and stream flooding occurred in Petrolis and Bruin.
Warren County	11	Night			0	0	5	0	0	Flood
										Roads were heavily damaged by thunderstorm rains in Sugar Grove.
McKean County	11	Night			0	0	0	0	0	Flood
										Road and basement flooding occurred at Derrick City, Rev, and Bradford.
Armstrong and Clarion Counties	11	Late night-12 Early morning			0	0	3	0	0	Flood
										Sugar Creek and Cove Run went out of their banks, washing out roads and flooding basements in Bradys Bend and Putneyville (Armstrong), and Rimersburg, Sligo, Hawthorn, New Bethlehem, and East Brady (Clarion).
Clearfield County	11	Late night-12 Day			0	0	0	0	0	Flood
										Road and basement flooding from over 2 inches of thunderstorm rains occurred at Dubois and Dandy Townships.
Mercer County	11	Late night-12 Day			0	0	3	0	0	Flood
										Road and basement flooding from over 4 inches of rain in a 24 hour period occurred in West Middlesex, Delaware, and South Pymatuning.
Crawford County	12	Day-Early Evening			0	0	4	0	0	Flood
										French Creek rose 1 foot above flood stage at Cambridge, Cochran, and Meadville due to recent heavy rains. At Meadville, high waters washed out a bridge and closed roads.
Hiffin County	14	Night			0	0	4	0	0	Flood
										In Lewiston, a cinder block wall weakened by recent heavy rains collapsed onto a trailer and pickup truck which were pushed into the building and damaged.
Crawford County	15	1730EST			0	0	0	0	0	Thunderstorm Wind
										Numerous reports of large trees knocked down by thunderstorm winds were received.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1986

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					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	
PENNSYLVANIA, Western											
Erie County	15	1745EST			0	0	0	0			Thunderstorm Wind Trees and large limbs were knocked down and broken off at Cherry Hill and Jumbo Woods in southwest Erie County.
Crawford County	16	1730-1745EST			0	0	0	0			Thunderstorm Wind Large trees and power lines were downed by thunderstorm winds at Conneautville, Meadville, and West Mead.
Mercer County	16	1830-1945EST			0	0	4	0			Thunderstorm Wind Winds estimated at 70 mph blew the roof off a barn and top off a silo, and carried them 600 yards at Hunting Hill Farm, seven miles north of Mercer in Greene Township.
Venango County	16	1830-1900EST			0	0	0	0			Thunderstorm Wind Winds estimated at 50 to 60 mph from a thunderstorm downed large trees, blocking roads throughout the county.
Clarion County	16	1915-1930EST			0	0	4	0			Thunderstorm Wind, Lightning Sixty-two mph wind was reported in the county. A barn was destroyed by lightning in Farmington Township.
Venango County	16	1915EST			0	0	0	0			Thunderstorm Wind Large trees were downed at Sugar Creek, Jackson, Mineral, and Richland Townships, and Emlenton.
Armstrong County	16	1945EST			0	0	0	0			Thunderstorm Wind Large trees and power lines were downed in North Buffalo and Manor Townships, and in Shay and the west end of Ford City.
Jefferson County	16	1945EST			0	0	4	0			Thunderstorm Wind Severe damage occurred to a ranger's house in Clear Creek State Park near Sigal, 12 miles north of Brockville. Twenty trees were also uprooted.
Forest County	16	2100EST			0	0	5	0			Lightning A lightning-induced fire at Martenville destroyed a garage and heavily damaged an antique shop.
Blair County	16	2130-2155EST			0	0	4	0			Thunderstorm Wind Aluminum siding was ripped loose and doors were torn off of an Altoona car wash. A nursing home across the street had windows broken, ceiling ducts hanging down, and a wooden fence blown down. Large trees were also downed in the area.
Clinton County	16	Late night			0	0	4	0			Thunderstorm Wind An Army Reserve tent collapsed and was extensively damaged in Wayne Township.
Greene County	16	2200EST			0	0	4	0			Lightning Lightning struck a skip hoist motor at a mine in Nemaquin.
Somerset County	16	2306EST			0	0	3	0			Lightning Lightning struck a home in Addison Township, causing some damage.
Bedford County	20	0345EST			0	0	4	0			Lightning A barn was set on fire by lightning near Mench.
Allegheny County	27	Afternoon			0	0	0	0			Hail (1.00), Thunderstorm Wind Hail as big as quarters fell, and large trees were downed in Leetsdale.
Allegheny County	27	1615EST			0	1	0	0			Lightning A golfer was struck by lightning at South Park; 4 others were stunned.
Washington County	27	1735EST			0	0	0	0			Thunderstorm Wind Power lines and large trees were downed in Canonsburg, Strabane, Houston, Claysville, West Alexander, and Florence.
Greene County	27	1830EST			0	0	0	0			Thunderstorm Wind Power lines were downed in Cumberland and Jefferson Townships in the northeast part of the county.
Washington County	27	1930EST			0	0	4	0			Lightning Lightning struck a home in Donora, causing considerable damage.
37 RHODE ISLAND											
RIZ001 Northwest Province County, W. Gloucester	24	1145EST			0	5	0	0			Lightning A bolt of lightning struck and knocked down a 50 foot pine tree near the beach in Pulaski Memorial Park. The bolt then travelled about 200 feet, apparently underground, to a pavilion where a group of students were huddled. It knocked 5 people to the ground, injuring them such that they required hospital treatment for minor burns. One of the 5 was more seriously injured, and was reported to be suffering from shock.
38 SOUTH CAROLINA											
Dorchester County	1	1545 EST			0	0	0	5			Hail (1.75) Hail storm in Summerville and 3 miles southwest of Summerville damaged crops.
Berkeley County	1	1600 EST			0	0	0	3			Hail (1.75) Hail between I-26 and SC 76 in Berkeley County was reported.
Richland County	2	2130 EST			0	0	4	0			Hail (0.25) 2 2130 EST Wind during a thunderstorm broke several trees in the North Spring subdivision of Columbia. Hail caused minor roof damage.
Charleston County	2				1	0					Heat Robert Banks (N-79) died from heat stress.
Charleston County	3	0530 EST			0	0	4	0			Wind Wind during a thunderstorm on James Island blew tree limbs on homes and power lines. Considerable minor damage was reported.
Greenville County	8	1817 EST			0	0	1	0			Wind 8 1818 EST Winds during a thunderstorm blew down several trees on US 29 near Greenville. Hail was reported in Simpsonville.
Laurens County	8	1830 EST			0	0	4	0			Wind Winds during a thunderstorm destroyed a mobile home in Laurens.
Beaufort County	8	1945 EST			0	0	5	0			Lightning Lightning set a large 12 unit building at Fidler Cove Beach afire.
Aiken County	9	1600 EST			0	0	6	0			Lightning 9 1600 EST 9 1600 EST Thunderstorm accompanied by heavy rains and high winds did considerable damage at Aiken. Lightning damaged three homes, killed two cows, knocked out four main electrical feeder circuits, and disrupted telephone service. Wind tipped over a mobile home, destroyed a storage shed and caused other minor damage. Flooding from heavy rains of 3 to 4 inches caused urban flooding.
Spartanburg County	10-11	2208 to 0200 EST			0	0	4	0			Flash Flooding Heavy rains during a thunderstorm caused one to two feet of water on roads in Landrum and affected some homes.
Greenville County	10-11	2208 to 0200 EST			0	0	4	0			Flash Flooding Heavy rains during a thunderstorm caused flooding on roads.
Orangeburg County	12	1500 EST			0	1	0	0			Lightning Lightning struck a man as he attempted to open the door to a pickup located in the center of a field, and seriously injured him. The field is on Old Elloree Road near Orangeburg.
Horry County	15	0748 EST			0	0	0	0			Waterspouts Two waterspouts were sighted offshore of Myrtle Beach. These storms had no effect on the mainland.
Beaufort County	16	1500 EST			0	0	5	0			Lightning A large home in Beaufort was struck by lightning and totally destroyed.
Beaufort County	16	1500 EST			0	2	0	0			Lightning Two marines were injured by lightning on Farris Island as they were towing an aircraft into a hangar.
Beaufort County	18	1430 EST			0	0	0	0			Hail (0.75) Hail reported along US 21 north of the U.S. Marine Air Station was 3/4 inch in diameter.
Beaufort County	19	1232 EST			0	0	0	0			Waterspouts Several waterspouts were spotted just off shore of Hilton Head Island. They broke up as they moved in near the beach.
Beaufort County	19	1845 EST			0	0	0	0			Waterspout Several waterspouts were sighted off Daufuskie Island.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1986

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					KILLED	INJURED	PROPERTY	CROPS	
— SOUTH CAROLINA									
Marlboro County	20	1840 EST			0	1	4	0	Wind
		Wind blew a wall on a man 6 miles west of Bennettsville. Also damaged were 2 trailers.							
Sumter County	20	1913 EST			0	0	2	4	Hail (0.75)
	20	1930 EST			0	0	5	0	Wind
		Thunderstorm winds of up to 52 kts were reported at Shaw Field. Some large trees were downed. Hail damaged roofs. At Wedgefield, a mobile home was destroyed and 2,500 customers lost electrical power. Extensive wind damage occurred in Wedgefield.							
Lee County	20	1915 EST			0	0	0	5	Hail (0.75)
		Hail caused crop damage in the Woodrow Section. Trees also uprooted. Twelve acres of cotton and corn were damaged.							
Calhoun County	20	2100 EST			0	0	0	4	Wind
	20	2100 EST			0	0	3	5	Hail
		Trees 18 to 24 inches in diameter were broken off and a few uprooted. Hail damaged cotton and corn between St. Matthews and Elmore. Trees were blown down near Fort Motte.							
Orangeburg County	20	2110 EST			0	0	0	2	Hail (unk)
	20	2110 EST			0	0	4	2	Wind
		A number of trees and power lines were downed in Orangeburg. Hail was also reported. Winds overturned an airplane at Orangeburg Airport.							
Bamberg County	20	2130 EST			0	0	3	0	Wind
		Wind knocked down several trees.							
Beaufort County	22				0	0	5	0	High Tides
		Spring tides accompanied by onshore winds caused \$15,000 damage to beach, mostly from beach erosion on Hilton Head Island.							
Greenville County	24	1530 EST			0	0	2	0	Wind
	24	1545 EST			0	0	4	5	Hail (2.00)
		Trees were downed in Cleveland. Hail 3.5 miles north of Travelers Rest caused damage to a motor home and tomato crop.							
Greenville County	24	1548 EST			0	0	4	4	Hail (1.75)
		Hail was reported in Tigerville.							
Spartanburg County	24	1618 EST			0	0	1	0	Wind
		Wind downed several trees in Pauline.							
Fairfield County	24	1630 EST			0	0	0	3	Hail (0.75)
		Hail was reported in Wimsboro, and some trees were downed.							
Fairfield County	24	1635 EST			0	0	0	3	Hail (.75)
		Hail was reported 5 miles north of Wimsboro and 13 miles north of Wimsboro at 615.							
Barnwell County	25				1	0	0	0	Heat
		Leon Churchwell (M-59) died from heat stress.							
Richland County	26	1535 EST			0	0	4	0	Hail (1.75)
		1535 EST			0	0	1	0	Wind
		Thunderstorm winds caused considerable minor tree damage in Columbia, South Carolina. Hail was also reported at Port Jackson.							
Anderson County	27	1830 EST			0	3	0	0	Lightning
		Lightning struck three people framing a new home. All three were injured.							
Greenwood County	27	2030 EST			0	0	4	0	Wind
		Thunderstorm winds blew down a number of trees, damaging power lines.							
Laurens County	27	2115 EST			0	0	3	0	Wind
		Trees were downed.							
Spartanburg County	28	1350 EST			0	0	5	0	Wind
		Wind blew down trees and damaged 3 houses. Two campers on Sharon Road between I-85 and Woodruff were damaged.							
Richland County	28	1700 EST			0	0	4	0	Wind
		Thunderstorm winds blew a bus into Gill Creek in eastern Columbia. Fifteen power lines were downed in Columbia.							
Statewide	1-31				0	0	5	6	Drought
		Continued drought conditions worsened during June. All crops showed moisture stress. Small grains, pastures, hay crops and corn suffered heavy damage. Streams and reservoirs were much lower than usual. Some shallow wells failed. Hydro electrical power generation was curtailed.							
39 SOUTH DAKOTA									
Meade County	03	2153 EST	.1	15	0	0	0	0	Tornado (F0)
		A tornado touched down twenty miles northeast of the Rapid City airport. No damage was reported.							
Walworth County	05	EVE			0	0	0	0	Lightning
		Lightning caused two power outages in Mabrige. One was from 1845 to 2011 CST, and the other was brief and occurred later in the evening.							
McPherson County	06	1800 CST	.1	15	0	0	0	0	Tornado (F0)
		A tornado touched down fifteen miles north of Eureka. No damage was reported.							
Edmunds County	06	1825 CST	.1	15	0	0	0	0	Tornado (F0)
		A tornado touched down briefly nine miles southeast of Roscoe. No damage was reported.							
SDZALL Statewide	06	AFIN-LT EVE			0	0	4	?	Hail, High Winds, Funnel Clouds
		Intense thunderstorms developed over western South Dakota at mid afternoon and moved to the extreme east part of the state by late evening. Some large hail fell in the west, with the largest report being two and one-half inch diameter hail at Ellsworth AFB (Pennington County) at 1440 CST and one and three-quarter inch hail four miles south of Millboro (Tripp County) between 1850 and 1900 CST. The hail flattened 400 acres of alfalfa and winter wheat seventeen miles east of Sturgis (Meade County), and the hail also damaged numerous cars on the south side of Sturgis. Strong thunderstorm winds were also reported in the evening, 80 MPH winds occurring at Gregory (Gregory County) and 77 MPH winds at Wessington (Beadle County). 65 MPH winds also occurred at Kennebec (Lyman County) at 1825 CST. The winds damaged feed bunks, power poles and irrigation systems south of Ree Heights (Hand County) and knocked down trees in Sioux Falls (Minnehaha County) at 2145 CST. Funnel clouds were reported seven miles south of Roscoe (Edmunds County) at 1815 CST, nine miles southeast of Roscoe at 1825 CST, and two miles north of Dupree (Ziebach County) at 1905 CST.							
SDZ026 Southwest SD	08	EVE-10 MRNG			0	0	0	0	Heavy Rain
		Thunderstorms produced heavy rain over the area. Four inches were reported at Fairburn (Custer County), 3.22 inches at Caputa (Pennington County), and 3.00 inches in DelRichts (Fall River County).							
SDZ00E Eastern SD	09	LT EVE-10 MRNG			0	0	5	?	Heavy Rain
		Thunderstorms produced heavy rain over a part of eastern South Dakota. The heaviest rain fell from Mitchell (Davison County) to Lake Andes (Charles Mix County) and was about thirty miles wide. Within that area, three to seven inches of rain fell, with seven inches reported just east of Lake Andes. Five and one-half inches of rain also fell in Willow Lake (Clark County). Many roads were under water from the rains, including Highway 50 east of Lake Andes and Highway 64 in Douglas County. Road damage to county roads was extensive with Douglas County receiving 100 thousand dollars in damage and Davison County, 200 thousand dollars in damage. In Davison County, two bridges were washed out near Ethan. Charles Mix, Davison and Douglas Counties were declared state disaster areas by the governor. 500 hogs drowned on a farm four miles north and four miles east of Armour. Many crops in the area were also damaged.							
Charles Mix County	10	1305 CST			0	0	0	0	Funnel Cloud
		A funnel cloud was sighted one mile north and one mile east of Lake Andes.							
Douglas County	10	1310 CST	.1	15	0	0	0	0	Tornado (F0)
		A tornado touched down five miles southwest of Armour. No damage was reported.							
Douglas County	10	1310 CST	.1	15	0	0	0	0	Tornado (F0)
		A tornado touched down just northeast of Armour. No damage was reported.							

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 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	
— SOUTH DAKOTA									
Butte and Meade Counties	13	1700-2000			0	0	0	?	Hail, Heavy Rain, Funnel Cloud
<p>One and three-quarter inch diameter hail was reported in northeast Meade County at 1800 CST. The hail flattened hay around Union Center. Thunderstorms also produced three inches of rain fourteen miles northwest of Union Center, and Union Center had one inch of rain in twelve minutes. A possible funnel cloud was sighted seven miles north of Newell at 1700 EST.</p>									
Meade and Pennington Counties	14	1445-1520			0	0	3	?	Hail
<p>Thunderstorms produced large hail, up to one and three-quarters inch in diameter at Piedmont at 1445 CST. One and one-quarter inch diameter hail fell in northwest Rapid City at 1520 CST and at the Rapid City Airport at 1505 CST.</p>									
Hughes County	19	1819			0	0	0	0	Funnel Cloud
<p>A funnel cloud was sighted near Blunt.</p>									
Edmunds County	19	2235			0	0	0	0	Funnel Clouds
<p>Two funnel clouds were reported one-half mile south of Roscoe.</p>									
Hand County	19-	LT EVE-20			0	0	4	?	Heavy Rain
<p>Thunderstorms produced up to five and one-half inches of rain in the southern part of the county in a one hour period. The heavy rains washed out a bridge seventeen miles south and one mile west of Miller.</p>									
SD20SE Southeast SD	20	AFTN			0	0	4	?	Heavy Rain, High Winds
<p>Thunderstorms produced rainfall of four inches, seven miles north of Sioux Falls (Minnehaha County); three and one-half inches in Baltic (Minnehaha County), and 2.35 inches at Wall Lake (Minnehaha County). Brookings (Brookings County) received an inch of rain in twenty minutes. Strong thunderstorm winds uprooted trees in Sioux Falls and Lennox (Lincoln County). The strong winds also moved a building 59 inches off its foundation in Brookings, and grain was flattened by the winds near Lennox. The winds also caused power outages over much of the area, with some locations without electricity for five hours.</p>									
SD20NW Northwest SD	20	EVE			0	0	4	0	High Winds
<p>Thunderstorms produced winds of 63 MPH at the Rapid City airport (Pennington County) at 1922 CST and 80 MPH in Buffalo (Harding County) in the evening. The winds knocked down trees and disrupted power and phone service in Rapid City. Several buildings were severely damaged in Buffalo and north of Camp Crook (Harding County).</p>									
Stanley County	20	2000			0	0	0	0	Funnel Clouds
<p>Two funnel clouds were reported. One was five miles north of Hayes and the other was three miles west of Hayes.</p>									
SD20SE Southeast SD	21-22	AFTN-ERY			0	0	6	?	High Winds, Hail, Heavy Rain, Funnel Clouds, Lightning
<p>Intense thunderstorms produced winds of up to 95 MPH at Yankton (Yankton County) at 2250 CST. 93 MPH winds were also reported at Vermillion (Clay County) at 2248 CST, with 70 MPH winds at Viborg (Turner County) at 2320 CST and Elk Point (Union County) at 2330 CST. The winds lasted about 30 minutes and caused considerable damage, with many trees uprooted and signs destroyed. The area that received the most damage was from Springfield (Bon Homme County) to Vermillion, south of Sioux Falls (Minnehaha County). Many farms had considerable building damage, with some buildings destroyed by the winds. The winds and fallen trees caused many power outages lasting as long as one and one-half days in a portion of Yankton. Damage by the winds was estimated at half of a million dollars in Clay County.</p>									
— SOUTH DAKOTA									
<p>Hail from the thunderstorms was up to two and three-quarters of an inch in diameter at Colman (Moody County). Hail an inch in diameter fell at Willow Lake (Clark County) at 1540 CST, Howard (Miner County) at 1630 CST, and at Clear Lake (Deuel County) at 2238 CST. Severe hail damage occurred five miles south of Junius (Lake County), where corn and soybeans were stripped. Large hail also fell twelve miles northeast of Yankton.</p>									
<p>The thunderstorms also produced heavy rainfall. The heaviest rain fell in southern Lake, southern Moody and northern Minnehaha Counties. In that area, three to seven inches of rain fell, with the largest amount of 7.5 inches reported at Renner (Minnehaha County). The rain caused urban and small stream flooding, and many basements were flooded. Sandbagging was done in Renner and Madison (Lake County). Water was over many roads and some roads were closed. A road in northern Minnehaha County had a twenty foot gap in it.</p>									
<p>Funnel clouds were sighted near Canova (Lake County) at 1635 CST and 1625 CST, and eight miles east of Carthage (Miner County) at 1755 CST. Lightning started a transformer fire at Colton (Minnehaha County) at 1930 CST and a tree fire in Dell Rapids (Minnehaha County) at 1930 CST.</p>									
Clay County	21	2257	.2	25	0	0	3	0	Tornado (F1)
<p>A tornado touched down briefly near Irene, damaging several buildings on a farm.</p>									
SD2011 Black Hills	27	1700-1745			0	0	0	?	Lightning
<p>Lightning started several fires in the Black Hills. The first fire occurred at Piedmont at 1700 CST and burned one tenth of an acre. The next fire began at Rockerville at 1713 CST and burned one-half acre. The third fire started at 1725 CST near Hill City and was very small. The final fire began at 1745 CST between Keystone and Hermosa and burned one-eighth of an acre.</p>									
SD20NC North-Central SD	27	2150-2209			0	0	4	?	Hail
<p>One and three quarter inch diameter hail fell in Eureka (Mc Pherson County) between 2157 and 2209 CST. The hail caused considerable vehicle damage. Three-quarter inch diameter hail also fell near Kanol (Walworth County) at 2159 CST.</p>									
Yankton County	28	2020-2040			0	0	0	?	Hail
<p>One and three-quarter inch diameter hail fell in the Yankton area.</p>									
SD20SE Southeast SD	29	AFTN			0	0	5	?	Hail, High Winds, Heavy Rain, Funnel Clouds
<p>Intense thunderstorms produced hail up to four inches in diameter northwest of Olivet (Hutchinson County) between 1430 and 1500 CST. Two inch diameter hail also fell four miles east of Yankton (Yankton County) at 1655 CST. The hail caused considerable crop damage near Olivet. High thunderstorm winds caused considerable damage in Tripp (Hutchinson County) and Parkston (Hutchinson County) at 1345 CST. In that area, a grain bin, a barn and silos were destroyed. 1.7 inches of rain fell in an hour at Kimball (Brule County) and 1.2 inches of rain fell in twenty minutes at Plankinton (Aurora County). A funnel cloud was sighted just south of Hurley (Turner County) at 1630 CST.</p>									
Hutchinson County	29	1435	.1	30	0	0	0	0	Tornado (F0)
<p>A tornado touched down four miles west and four miles north of Olivet.</p>									
Davison County	29	1625	1.2	35	0	0	0	0	Tornado (F0)
<p>A tornado was on the ground for three minutes, starting twelve miles southwest of Mitchell.</p>									
Pennington County	29	1627			0	0	2	?	Hail
<p>One inch diameter hail fell five miles west of Rapid City.</p>									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1986

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					KILLED	INJURED	PROPERTY	CROPS	
SOUTH DAKOTA									
SDZ011 Black Hills	30	AFTN- ERY EVE	0	20	5	?			Hail, High Winds
<p>Thunderstorms produced large hail up to three inches in diameter at Ellsworth AFB (Pennington County) at 1445 CST, Oelrichs (Fall River County) at 1715 CST, and in New Underwood (Pennington County) at 1505 CST. The hail caused property damage, power outages and crop damage. Crops were flattened in a one mile wide path from Tifford (Meade County) to Ellsworth AFB. One and one-half inch diameter hail fell at Deadwood (Lawrence County) at 1340 CST, and one and three-quarter inch diameter hail was reported at Box Elder (Pennington County) at 1444 CST. Twenty people were hurt at Ellsworth AFB when the hail broke one thousand windows at 1440 CST. Hail was three to six inches deep on the roads in Spearfish Canyon (Lawrence County), and snowplows were used to clear the roads. Thunderstorms also produced 60 MPH winds five miles west of Spearfish (Lawrence County) at 1315 CST.</p>									
40 TENNESSEE									
Cookeville, Putnam County	01	1430CST	0	0	4	0			Lightning
	01	1430CST	0	0	2	0			Thunderstorm Wind
<p>Lightning sparked a fire that destroyed a barn and 4,000 bales of hay that were stored inside. Strong thunderstorm winds toppled a tree onto a truck.</p>									
Chattanooga, Hamilton County	04	1615EST	0	0	5	0			Heavy Rain
<p>A 30 by 30 foot section of roof collapsed at a hardware store under the strain of a great deal of rain in a short time. About \$90,000 in damage was done to the roof and store merchandise.</p>									
Giles County	08	1400CST	0	0	4	0			Lightning
<p>Lightning struck a house in the Vales Mills subdivision; fire damage was confined to the second floor, but water damage occurred on the ground floor as well.</p>									
Haywood County	09	1030CST	0	0	5	0			Lightning
<p>Lightning struck a house on Ripley Highway, starting a fire that consumed the house. The house was described as a total loss.</p>									
Carroll County	09	1200CST	0	0	4	0			Flash Flood
<p>One and a half inches of rain which fell in less than 30 minutes caused flash flooding in and near Huntingdon. Water entered businesses and homes near overflowing drainage areas, especially in the low-lying sections.</p>									
Cleveland, Bradley County	10	2215EST	0	0	4	0			Heavy Rain
<p>Four businesses were damaged when heavy rain accumulated on the roof of a building, causing a wood-and-concrete awning to collapse.</p>									
Carter County	24	0630EST	0	2	0	0			Lightning
<p>Two 23-year-old male campers were struck by lightning as they camped along the Appalachian Trail northeast of Elizabethton. Neither was seriously injured, but one was admitted to a hospital with numbness in his arms and legs. Both had been temporarily knocked unconscious.</p>									
McMinn County	27	1500EST	0	0	4	0			Thunderstorm Wind
	27	1500EST	0	0	3	0			Lightning
<p>Strong thunderstorm winds collapsed a large commercial chicken house, and ripped portions of the roofs of an equipment workshop and a barn on a farm between Riceville and Calhoun. Twelve mobile homes were damaged at a mobile home park, where roof and window damage was sustained. Two houses were struck by lightning in Athens. One house sustained \$1,000 worth of damage, as exterior siding and an interior wall were burned. The second house had \$700 in damage, as lightning passed through a television and a cable system.</p>									
Grainger County	28	0030EST	0	0	4	0			Lightning
<p>Thirty-seven cows were killed by lightning as they sought shelter from the rain under a tree at a farm near Rutledge. The cows, each of which had been bred, were worth \$1200 apiece.</p>									
41 TEXAS, Northern									
Johnson County	1	1118CST	0	0	0	0			Funnel
<p>A funnel was observed in the northeast part of the county at 1118CST.</p>									
Tarrant County	1	1545CST	0	0	?	?			Flash Flooding
Dallas County		1608CST	1	0	?	?			Flash Flooding
Johnson County		1648CST	0	0	?	?			Flash Flooding
Tarrant County		1608CST	0	0	?	?			Flash Flooding
<p>Widespread heavy rains began in Johnson, Tarrant, and Dallas Counties at 1500CST and totalled up to five inches in some areas by 2100CST. Several cars stalled in high water around Crowley at 1545CST. A 13 year-old boy drowned in Duncanville at 1600CST while playing in a flooded drainage ditch. Many roads in Burleson were flooded by 1640CST. Several cars stalled in high water along Interstate 35 in south Fort Worth at 1800CST. M130.</p>									
Titus County	2	1200CST	0	0	?	?			Flash Flooding
<p>Yellow Bank Creek flooded across Farm Road 127 near Monticello, sweeping a car into the creek.</p>									
Grayson County	2	1700CST	0	0	?	?			Flash Flooding
<p>Up to 4 inches of rain in a 3 hour period flooded several roads in Sherman.</p>									
Taylor County	2	1900CST	0	0	?	?			Flash Flooding
		1930CST	0	0	?	?			Flash Flooding
<p>Heavy rains produced widespread street flooding in Abilene at 1900CST and in Bradshaw at 1930CST.</p>									
Jones County	2	1930CST	0	0	?	?			Flash Flooding
		2130CST	0	0	?	?			Flash Flooding
<p>Heavy rains swelled Bitter Creek out of its banks at 1930CST, flooding Farm Road 707 south of Truby (10 miles south of Anson). Farm Road 1812 in the southwest part of the county was closed by high water at 2130CST.</p>									
Lamassas County	3	0137CST	0	2	?	?			Flash Flooding
<p>An apparently flood-weakened railroad bridge 9 miles north of Lameta collapsed under the weight of a passing freight train, derailing one engine and 14 cars.</p>									
Eastland County	3	0200CST	0	0	?	?			Flash Flooding
<p>Up to 3 inches of rain in a 2 hour period flooded several roads in Ranger and Farm Road 1027 near Okra (17 miles south of Eastland).</p>									
Hood County	3	0325CST	0	0	?	?			Flash Flooding
<p>Heavy rains flooded streets and low water crossings in Granbury.</p>									
Tarrant County	3	0400CST	0	0	?	?			Flash Flooding
<p>Heavy rains flooded several streets and underpasses in and near downtown Fort Worth.</p>									
Wise County	3	0445CST	0	0	?	?			Flash Flooding
<p>Heavy rains flooded Highway 51 south of Decatur.</p>									
Hood County	3	0530CST	0	0	?	?			Flash Flooding
<p>Heavy rains flooded Farm Road 2869 north of Hawkins.</p>									
Johnson County	3	1430CST	0	0	0	0			Funnel
<p>A funnel was observed briefly near Alvarado.</p>									
Brown County	3	1600CST	0	0	?	?			Flash Flooding
<p>Heavy rains swelled Pecan Bayou near Byrd's Store, forcing the evacuation of campers from the camping areas.</p>									
Coryell County	3	1600CST	1	0	?	?			Flash Flooding
<p>A 19 year-old female soldier fell into the rushing waters of a storm drainage ditch at Fort Hood during a heavy downpour and drowned. F190.</p>									
Coconche County	3	1720CST	0	0	?	?			Flash Flooding
<p>Up to 4 inches of rain in less than an hour in DeLeon flooded 48 federal housing units and the hospital.</p>									
Red River County	4	1155CST	0	0	?	?			Flash Flooding
<p>Heavy rains flooded Highway 271 between Rugby and Bogata.</p>									
Franklin County	4	1355CST	Short	Narrow	0	0	0	0	Tornado (FB)
<p>A tornado touched down briefly in open country in the northwest part of the county near the border with Hopkins County.</p>									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

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					KILLED	INURED	PROPERTY	CROPS		
TEXAS, Northern										
Rusk County	4	1545CST			0	0	0	0		Funnel
			A funnel was observed 2 miles north of Henderson.							
Cass County	4	1645CST 1645CST			0	0	?	?		Hail (0.75) TSM Winds (50)
			Dime size hail fell and 50 knot winds downed trees and power lines in Linden.							
Van Zandt County	4	1835CST			0	0	0	0		Funnel
			A funnel was observed near Grand Saline.							
Fannin County	4	1920CST 1925CST 1925CST 1945CST	Short Narrow		0	0	0	0		Tornado (F0) Tornado (F0) TSM Winds (63) Tornado (F0)
			Tornadoes briefly touched down in Lake Bonham at 1920 and 1925CST. Strong winds measured at 63 knots took the roof off of a well house and broke windows in the area of the lake. A tornado briefly touched down in open country just north of the Bonham Airport at 1945CST.							
Collin County	4	2118CST 2220CST			0	0	?	?		Flash Flooding Flash Flooding
			Highway 5 just north of McKinney was flooded by heavy rains at 2110CST. Highway 380 east out of McKinney was flooded at 2220CST.							
Jones County	4	2300CST			0	0	?	?		Flash Flooding
	5	0100CST			0	0	?	?		Flash Flooding
			Heavy rains flooded Farm Road 126 south of Noodle, causing it to be closed at 2300CST. The intersection of Farm Roads 1812 and 707 south of Truby was closed by high water at 0100CST.							
Eastland County	4	2325CST			0	0	?	?		Flash Flooding
	5	0935CST			0	0	?	?		Flash Flooding
			Heavy rains of up to 5 inches by 2325CST flooded and closed Farm Road 3101 by Eastland Lake Road, Highway 16 nine miles north of Desdemona, Highway 36 near Rising Star, Highway 183 six miles north of Rising Star, and Farm Road 2526 one mile off of Highway 6. Two farm roads in the southwest part of the county were closed by high water at 0935CST.							
Erath County	5	0100CST 0300CST			0	0	?	?		Flash Flooding Flash Flooding
			Heavy rains flooded the city park in Stephenville and closed several farm roads near Dublin at 0100CST. The Bosque River overflowed its banks in the southern part of the county at 0300CST, temporarily trapping three families in their homes.							
Taylor County	5	0100CST 0300CST 0500CST			0	0	?	?		Flash Flooding Flash Flooding Flash Flooding
			Heavy rains flooded Jim Ned Creek over Farm Road 613 two miles west of Tuscola at 0100CST. Highway 89 west of Lake Abilene was flooded by Elm Creek and Farm Road 707 was flooded by Cedar Creek at 0300CST. Numerous streets were flooded and closed in Abilene at 0500CST.							
Throckmorton County	5	0130CST			0	0	?	?		Flash Flooding
			Heavy rains flooded and closed Highway 79 east of Throckmorton, Highway 389 east of Throckmorton, and Highway 209 east of Woodson.							
Young County	5	0300CST			0	0	?	?		Flash Flooding
			Heavy rains flooded and closed Highway 79 west of Olney, Highway 388 west of Graham, and Highway 209 west of Graham.							
Hill County	5	0300CST 0500CST			0	0	?	?		Flash Flooding Flash Flooding
			Heavy rains flooded and closed Highway 67 near Covington at 0300CST. Highway 171 near Covington and Interstate 35 near the Johnson County line were closed at 0500CST.							
Comanche County	5	0330CST 0745CST 1200CST			0	0	?	?		Flash Flooding Flash Flooding Flash Flooding
			Heavy rains flooded low water crossings in Comanche with up to 3 feet of water at 0330CST. Several county roads were flooded and closed at 0745CST. Up to 6 inches of rain had fallen by 1200CST, flooding and closing Farm Road 1496 out of DeLeon, Farm Road 2318 between DeLeon and Downing, and Jones Bridge near Lake Proctor.							
TEXAS, Northern										
Brown County	5	0400CST 0500CST 1000CST			0	0	?	?		Flash Flooding Flash Flooding Flash Flooding
			Heavy rains forced the evacuation of campers from areas around Lake Brownwood and Pecan Bayou at 0400CST. Up to 6 inches of rain fell at Byrd's Store by 0600CST, swelling Pecan Bayou out of its banks. Street flooding and closures occurred in Brownwood at 0800CST. Highway 377 was closed by water in Brownwood at 1000CST.							
Johnson County	5	0500CST			0	0	?	?		Flash Flooding
			More than 4 inches of rain fell near Grandview in a one hour period, flooding and closing Interstate 35 between Grandview and the Hill County line.							
Ellis County	5	0650CST 1220CST			0	0	?	?		Flash Flooding Flash Flooding
			Up to 4 inches of rain fell in Maypearl, washing out several county roads by 0650CST. Additional heavy rain flooded and closed Highway 66 at Chambers Creek and Highway 916 at Chambers Creek near Maypearl at 1220CST.							
Bowie County	5	1545CST			0	0	0	0		Funnel
			A funnel was briefly sighted in the southeastern part of the county.							
Ellis County	6	0400CST 0500CST 0730CST			0	0	?	?		Flash Flooding Flash Flooding Flash Flooding
			Heavy rains flooded and closed Highway 55 near Italy and Farm Road 66 south of Maypearl at 0400CST. Several buildings were flooded in Maypearl at 0500CST. Flood water washed out a bridge on Farm Road 55 south of Avalon at 0730CST.							
Henderson County	6	0500CST			0	0	?	?		Flash Flooding
			Heavy rains flooded and closed Farm Road 753 south of Athens and Farm Road 2636 south of Malakoff at 0500CST.							
Navarro County	6	0600CST 0730CST			0	0	?	?		Flash Flooding Flash Flooding
			Heavy rains flooded and closed Highway 22 between Barry and Blooming Grove at 0600CST. Highway 55 near Blooming Grove was closed by high water at 0730CST.							
Coryell County	6	1500CST			0	0	?	?		Flash Flooding
			Heavy rains of up to 2.25 inches in Copperas Cove closed Highway 190 near Copperas Cove.							
McDulloch County	6	1600CST			0	0	?	?		Flash Flooding
			Over 2 inches of rain in a 45 minute period flooded several businesses along the Brady downtown square and closed low water crossings in Brady.							
Angelina County	7	1530CST 1615CST			0	0	0	0		Funnel Flash Flooding
			A funnel was observed along Highway 69 north of Lufkin at 1530CST. Heavy rains swelled Moccasin and Crawford Creeks out of their banks south and west of Lufkin at 1615CST.							
Hamilton County	8	1745CST			0	0	?	?		Flash Flooding
			Heavy rains flooded streets and several businesses in downtown Hamilton.							
Angelina County	9	0330CST 0500CST 1000CST	Short Narrow		0	0	?	?		Flash Flooding Flash Flooding Tornado (F0)
			Heavy rains swelled a small creek out of its banks in Lufkin at 0330CST. Highway 59 north out of Lufkin was flooded and closed at 0500CST. A tornado was briefly observed in open country near the intersection of Farm Roads 1475 and 326 (7 miles east of Lufkin) at 1000CST.							
Nacogdoches County	9	0330CST 0400CST 1000CST			0	0	5	?		Flash Flooding Flash Flooding Flash Flooding
			Heavy rains swelled LaMana Creek out of its banks in Nacogdoches at 0330CST, flooding an apartment complex. Damages were estimated at \$10,000. Up to 5 inches of rain in a 5 hour period by 0600CST flooded and closed a number of county roads near Nacogdoches. A family was forced to evacuate their home in Nacogdoches because of high water at 1000CST.							

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1986

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					KILLED	INJURED	PROPERTY	CROPS	
— TEXAS, Northern									
Panola County	9	0800CST 1100CST 1400CST			0	0	?	?	Flash Flooding Flash Flooding Flash Flooding
<p>Heavy rains flooded streets in Carthage at 0800CST. With 6.18 inches of rain between 0700 and 1100CST, portions of Highways 59, 79, 315, and 149 were flooded and closed in and near Carthage at 1100CST. Lake Murvaul overflowed by 1400CST, flooding several nearby houses and boat houses.</p>									
Shelby County	9	0800CST			0	0	?	?	Flash Flooding
<p>Heavy rains produced widespread street flooding in Center. Some county roads were also flooded by 3-5" rains.</p>									
Wichita County	10	1417CST 1442CST 1451CST 1500CST 1520CST 1602CST 1700CST 1820CST 1900CST			0	0	?	?	Hail (0.75) TSTM Winds (52) Hail (1.00) TSTM Winds (61) TSTM Winds (73) Hail (1.00) TSTM Winds (54) Hail (0.75) Flash Flooding
<p>Hail up to 3/4 inch fell in a number of areas around Electra between 1417 and 1450CST. Winds to 52 knots were reported 8 miles southwest of Electra at 1442CST. One inch hail fell just north of Iowa Park at 1451CST. Winds gusts to 61 knots at Burk Burnett at 1500CST. Several reports of winds between 50 and 73 knots were received around the Iowa Park and Wichita Falls area between 1520 and 1549CST. Downed trees and power lines and some roof damage resulted from these winds. Hail to one inch fell just southwest of Wichita Falls at 1602CST. Winds to 54 knots were recorded in Wichita Falls at 1700CST. Hail to 3/4 inch fell in Wichita Falls at 1820CST. Heavy rains of up to 4.50 inches swelled Holliday and McGrath Creeks out of their banks at 1900CST, damaging 100 houses, 87 apartments, and 3 businesses in Wichita Falls.</p>									
Archer County	10	1600CST 1725CST			0	0	?	?	Hail (0.75) TSTM Winds
<p>Hail to 3/4 inch fell near Holliday at 1600CST. A garage was blown down at 1725CST near the junction of Highway 281 and Farm Road 1954 in the northeast part of the county.</p>									
Clay County	10	1730CST 1820CST 1830CST			0	0	?	?	Hail (1.75) Hail (1.00) TSTM Winds (52)
<p>Golf ball size hail fell near Petrolia (12 miles north of Henrietta) at 1730CST. Hail to one inch fell in the Jolly and Henrietta areas between 1820 and 1845CST. Winds to 52 knots were observed at Henrietta at 1830CST.</p>									
Jones County	10	2039CST			0	0	?	?	TSTM Winds (70)
<p>Winds to 70 knots were observed in Stamford.</p>									
Shackelford County	10	2230CST			0	0	?	?	TSTM Winds (52)
<p>Winds up to 52 knots were observed by Department of Public Safety personnel just southwest of Albany.</p>									
Cherokee County	15	1940CST			0	0	0	0	Funnels
<p>Funnels were observed near Rusk and near Jacksonville at 1940CST.</p>									
Wise County	16	1320CST			0	0	?	?	TSTM Winds (54)
<p>Winds to 54 knots were observed at the north end of Eagle Mountain Lake.</p>									
Tarrant County	16	1340CST			0	0	?	?	TSTM Winds (52)
<p>Winds to 52 knots were observed in Benbrook.</p>									
Dallas County	16	1345CST			0	0	?	?	TSTM Winds
<p>Power lines were downed and trees uprooted in Dallas.</p>									
Jones County	16	1610CST 1615CST Short Narrow			0	0	?	?	TSTM Winds (66) Tornado (F0)
<p>Winds to 66 knots were observed in Stamford at 1610CST. A tornado was briefly observed in open country just south of Stamford at 1615CST.</p>									
McLennan County	16	1625CST 1645CST 1657CST			0	0	?	?	TSTM Winds (50) TSTM Winds Hail (0.75)
<p>Winds to 52 knots were observed in China Spring (12 miles northwest of Waco) at 1625CST. Trees and power lines were downed by strong winds in Crawford at 1645CST. Hail to 3/4 inch fell in Crawford at 1657CST.</p>									
— TEXAS, Northern									
Henderson County	16	1630CST			0	0	0	0	Funnel
<p>A funnel was observed near Chandler in the extreme northeast part of the county.</p>									
Taylor County	16	1645CST 1645CST Short Narrow			0	0	?	?	TSTM Winds (50) Tornado (F0)
<p>Winds to 50 knots downed trees and power lines in Abilene between 1645 and 1740CST. A tornado touched down briefly at Eldorado Airport just east of Abilene.</p>									
Callahan County	16	1650CST Short Narrow			0	0	?	?	Tornado (F0)
<p>A tornado touched down briefly along Farm Road 604 just north of Clyde.</p>									
Coleman County	16	1800CST			0	0	?	?	TSTM Winds
<p>Strong winds downed trees and power lines in Coleman. Several storage buildings were blown over and two businesses had windows blown out.</p>									
Dorcy County	16	1900CST 2000CST			0	0	?	?	TSTM Winds Flash Flooding
<p>Strong winds downed phone and power lines in Copperas Cove at 1900CST. Six to eight houses were damaged by high water in Copperas Cove at 2000CST.</p>									
Bell County	16	2000CST			0	0	?	?	Flash Flooding
<p>Heavy rain swelled Nolan Creek out of its banks in Killen, forcing several families from their houses.</p>									
Concho County	16	1410CST			0	0	0	0	Funnel
<p>A funnel was observed briefly 5 miles northeast of Eola (northwest part of county).</p>									
Fannin County	23	1445CST			0	0	?	?	TSTM Winds
<p>Strong winds downed trees and power lines in Honey Grove.</p>									
Dallas County	23	1610CST			0	0	?	?	TSTM Winds (61)
<p>Winds gusts to 61 knots in Carrollton during a thunderstorm.</p>									
Grayson County	23	1632CST			0	0	?	?	TSTM Winds (55)
<p>Winds gusts to 55 knots during a thunderstorm at the Grayson County Airport.</p>									
Tarrant County	24	1707CST			0	0	?	?	TSTM Winds (55)
<p>Winds gusts to 55 knots during a thunderstorm at Carswell Air Force Base in Fort Worth.</p>									
Shelby County	26	1930CST 1930CST			0	0	?	?	TSTM Winds Flash Flooding
<p>Thunderstorms associated with the remnants of Hurricane Bonnie downed trees and power lines in several areas of the county. Some flooding occurred near Timpson and Tenaha overnight as 3-5" rains fell over the county.</p>									
Panola County	26	2200CST 27 0015CST 27 Morning			0	0	?	?	Flash Flooding Flash Flooding Flooding
<p>Heavy rain associated with the remnants of Hurricane Bonnie flooded Highway 31 near DeBerry at 2200CST. At 0015CST, Farm Road 123 was flooded one mile east of Highway 31. Flooding also occurred at the same time along Highway 79. Lowland flooding continued into the morning of the 27th as 6-8" rains collected over the eastern part of the county.</p>									
Harrison County	27	Morning			0	0	?	?	Flooding
<p>Heavy rain associated with the remnants of Hurricane Bonnie caused widespread flooding of roads and lowland areas, beginning around 0200 CST and continuing through mid-day. Rainfall totals exceeded six inches over the eastern half of the county, with Washon recording 11.65" between 2100 on the 26th and 1100 CST the next day. Major flooding occurred on several streams and bayous, and I-20 was closed at one location around 0600 CST for several hours.</p>									
Marion County	27	Morning			0	0	?	?	Flooding
<p>Widespread rains totalling between 5 and 7 inches from the remnants of Hurricane Bonnie flooded roads and lowland areas between 0200 and 1000 CST.</p>									
Cass County	27	Morning			0	0	?	?	Flooding
<p>Four to six inch rains from the remnants of Hurricane Bonnie flooded 10-15 inch roads between 0700 and noon CST.</p>									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 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	

TEXAS, Northern

Bowie County	27	Morning	0	0	?	?	?	?	Flooding
<p>Three to five inch rains from the remnants of Hurricane Bonnie closed some roads in the southern part of the county between 0800 and Noon CST.</p>									
Lamar County	28	1415CST	0	0	2	0	0	0	Funnel
		1415CST	0	0	?	?	?	?	TSM Winds
		1415CST	0	0	?	?	?	?	Flash Flooding
<p>A funnel was observed briefly along Highway 271 north of Paris. Strong winds downed trees in Paris. Heavy rain flooded low-lying areas in Paris.</p>									
Morris County	28	1800CST	0	0	0	0	0	0	Funnel
<p>A funnel was observed briefly near Lone Star.</p>									

41 TEXAS, Southern

Val Verde County	01	0335CST	0	0	0	0	0	0	Flash Flooding
<p>Three and a half inches of rain fell 30 miles north of Pendale where Johnson Draw was running full. Local flash flooding occurred.</p>									
Gillespie County	02	Early Morning	0	0	0	0	0	0	Flash Flooding
<p>5-7 inches of rain fell over portions of the county. Low water crossings were flooded and at least one vehicle was washed off of a road. Considerable farm and ranch land was washed away, including miles of fences. Stonewall had flash flooding of low water crossings in the afternoon from 5 inches of rain.</p>									
Dewitt County	02	1721CST	0	0	0	0	0	0	Flash Flooding
<p>Yoakum reported very heavy rainfall with some flooding.</p>									
Bexar County	02	1830CST	1	0	0	0	0	0	Flash Flooding
<p>Up to 2 inches of rain fell over the north and northwest side of the city of San Antonio, resulting in flash flooding of low water crossings. One man was crushed to death at a low water crossing when the swift water flipped his automobile over. This occurred on the Olmos Creek near a park and golf course. Firemen were making a valiant attempt to rescue him when the swift water rose to foil their efforts. His body was later recovered 100 yards downstream. M61y.</p>									
Burnet County	03	1958CST	0	0	?	?	?	?	Flash Flooding
<p>Heavy rains flooded several low water crossings in the county. One bridge was washed away on Morgan Creek.</p>									
Jasper County	03	2140CST	0	0	0	0	0	0	Flash Flooding
<p>Jasper County Sheriff's Dept. reported flash flooding of several roads in the area from heavy rains. Water was standing on Hwy. 96 in low places, especially at the bottom of the hills. Streams were full and swift. There was heavy rain in and around Bon Weir.</p>									
Atascosa, Bexar, Frio, Guadalupe, and Medina Counties	04	0300-1100CST	0	?	6	0	0	0	Flash Flooding
<p>Up to eleven and a half inches of rain fell in Medina County in and around the town of Yancey. The small community was temporarily isolated as high water closed all of the roads into the town. Several homes in the area had water in them. The town of Devine reported about 10 inches of rain, and the resulting flood waters rose into at least 10 homes. The worst flooding of recent memory occurred in the city of San Antonio where up to 9.61 inches of rain was recorded. The 9.61 was measured on the northeast side of the city near Windercrest. The NWS office at Broadway and Loop 410 had 6.50 inches of rain which was a record amount for a 24 hour period. In general, 5-8 inches of rain fell over Bexar County, and the heavy rains extended west and southwest to southern Medina County. Widespread flash flooding occurred from these heavy rains. All streams and creeks in the area were out of their banks, and the Medina and San Antonio Rivers remained above flood stage for several days. The San Antonio River, at Elmendorf, rose to a stage of 53 feet on the morning of the 5th which was the second highest stage on record. Flooding of low lands occurred along the Atascosa River, as well as the San Miguel, Salado, Black, Martinez and Leon Creeks. There were numerous evacuations from the lowlands surrounding these drainage areas. On the northern side of the city, flood waters from the Olmos Basin rushed into the flood control lake of the Olmos Dam. The lake rose to a height of 708.6 feet, which was about 20 feet from the top of the spillway. About 200 homes housing about 2,000 persons were evacuated along the flood plain of the San Antonio River below the dam in the anticipation of the release of the flood waters. Other areas were evacuated also, including the KOA Campground on the Salado Creek. Flooding was severe enough to close several of the main freeways in the city. Over 100 low water crossings in the city were barricaded. At least 18 persons had to be rescued by emergency crews, some by helicopter. At one time, 4 firemen had to be rescued as they were attempting to pull a motorist out of a swift swollen creek and their boat overturned. On the northeast side of the city, the roof of a warehouse</p>									

TEXAS, Southern

Harris County	04	Afternoon-Evening	0	0	5	0	0	0	Flash Flooding
<p>5-6 inches of rain fell over the east and southeast part of the county where many streets were flooded. The flooding was centered over the southeast part of Houston and in the Baytown area. The Highlands area and the Lakewood subdivision reported serious street flooding. Numerous vehicles were stalled out in the high water, including about a dozen school buses. The west side of Baytown reportedly had 9 inches of rain where water was reported as 4 feet deep in one street.</p>									
Gillespie County	06	1930CST	0	0	0	0	0	0	Flash Flooding
<p>Heavy rains caused flash flooding in the northwest part of the county where 4 inches of rain fell.</p>									
Bexar County	06	2230CST	0	0	0	0	0	0	Flash Flooding
<p>Up to 2 inches of rain fell over portions of the city of San Antonio, resulting in the flooding of low water crossings. Some streets were closed. Numerous recent heavy rains had made the city susceptible to flash flooding from rainfall amounts in the 1-2 inch category.</p>									
Tyler County	07	1630CST	0	0	0	0	0	0	Flash Flooding
<p>Heavy rains caused flooding of highways east of Sulphur. The Neches River was full, with tributaries and lowlands flooded.</p>									
Brazos County	07	1810CST	0	0	0	0	0	0	Flash Flooding
<p>Heavy rains fell in the Bryan and College Station area, resulting in flooding of streets. Many roads were closed.</p>									
Jefferson County	07	1835CST	0	0	0	0	0	0	Flash Flooding
<p>Heavy rains flooded streets in the Stonegate addition of north Fort Arthur.</p>									
Nueces County	08	1300CST	0	0	0	0	0	0	Flash Flooding
<p>Up to 6 inches of rain fell on the south side of the city of Corpus Christi. Streets were flooded and high water closed several roads in the area. Several streets had to be barricaded. Several motorists were stranded in high water. Minor flooding occurred as water rose into several homes.</p>									
Washington County	7-8	Evening-Night	0	0	5	0	0	0	Flash Flooding
<p>Up to 6 inches of rain fell in and around Brenham. The resulting flood waters damaged at least 50 homes and businesses. The areas worst hit were the Durden subdivision and the 4 Corners Shopping Center. Some FM roads were closed because of the high water.</p>									
Hardin, Harris, Jefferson and Orange Counties	8-9	Evening-Morning	0	0	4	0	0	0	Flash Flooding
<p>4-9 inches of rain fell over portions of the four county area. The worst flooding occurred along the lowlands surrounding the Hillbrandt Bayou in Jefferson County. The western part of Beaumont and western Jefferson County had numerous roads under water. In Vidor, 10 streets were impassable because of the high water. Cedar, Cow and Adams Bayou were flooded on the morning of the 9th. In eastern Harris County, Baytown reported widespread street flooding.</p>									
Zapata County	08	2020CST	0	0	0	0	0	0	Flash Flooding
<p>4-5 inches of rain in the southern part of the county flooded some roads including US Hwy. 83.</p>									
Liberty and Montgomery Counties	09	Day	0	0	0	0	0	0	Flash Flooding
<p>Heavy rains in northeast Montgomery and northwestern Liberty Counties, especially around the towns of Splendora and Cleveland, caused flooding that forced the evacuation of about 160 persons. Peach and Caney Creeks flooded the lowlands surrounding these drainage areas and the water rose into several homes. 17 persons were evacuated in Cleveland due to the high water.</p>									
Hidalgo County	12	1300CST	0	0	4	0	0	0	Wind
<p>High winds from a thunderstorm overturned a mobile home in San Juan. 6 utility poles were also downed in the area.</p>									
Bee County	12	1315CST	0	0	5	0	0	0	Wind
<p>High winds from a thunderstorm damaged a lumber yard and outbuilding on the southside of the town of Skidmore. The high winds also uprooted trees and downed power lines. The area effected by the high winds was about 1/4 of a mile long.</p>									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1986

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					KILLED	INJURED	PROPERTY	CROPS	

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

TEXAS, Southern

Hays County	12	1400CST			0	0	4	0	Wind
High winds from a thunderstorm ripped the roof off of a residence on the northwest side of the town of Dripping Springs.									
Jim Wells County	12	1530CST			0	1	4	0	Wind
2 miles southeast of Orange Grove, high winds from a thunderstorm blew over a mobile home onto another one. There was extensive damage to both homes. A minor injury resulted from flying glass.									
Val Verde County	12	1855CST			0	0	0	0	Flash Flooding
2-3 inches of rain fell in the Loma Alta and Pandale area and flooded low water crossings. Hwy. 163 north of Comstock was closed due to high water.									
Brazos County	16	Evening			0	0	?	0	Flash Flooding
Heavy rains flooded streets and high water washed cars off into ditches and creeks in the Bryan-College Station area. As much as 3 feet of water covered some streets in College Station. Major street flooding occurred in and around the Tx. A&M Campus.									
Bandera and Bexar Counties	18	Early Morning			0	0	0	0	Flash Flooding
Up to 6.50 inches of rain fell in Bandera City, and 4-5 inches over the northwest part of Bexar County caused flooding of low water crossings and many roads. Creeks and streams in the area got out of their banks.									
Real and Uvalde Counties	18	Morning			0	0	0	0	Flash Flooding
Several inches of rain caused flash flooding of low water crossings in these two counties. Several roads in the area were closed including Hwy. 55 between Camp Wood and Barksdale. US Hwy. 83 had water covering it in several places.									
San Patricio County	18	1400CST			0	0	5	0	Wind
High winds from a thunderstorm did minor damage to two homes on the east side of Lake Corpus Christi. One mobile home at Clearwater Cove was also damaged. There was minor to moderate damage to 4 homes at the Ft. Loma subdivision. Nearby trees were uprooted. Very heavy rain also fell, with one reported amount of 4 inches.									
Southeast Texas TXZ045-046-048	26	Morning			4	24*	6	5	Hurricane Bonnie
Hurricane Bonnie, the first June hurricane to affect the Texas Coast since 1957, made landfall between High Island and Sabine Pass around 0345CST. Bonnie formed first as a tropical depression about 350 miles southeast of New Orleans, late morning on the 23rd. It intensified to tropical storm strength and was named Bonnie at 1000CST on the 24th. Hurricane strength was attained at 1000CST on the 25th. The hurricane with its 97 MPH winds (at landfall) was labeled a category one on the Saffir-Simpson Scale. The central pressure at landfall was 990 millibars or 29.23 inches of mercury. The highest wind measured in the area was a gust to 84 knots or 97 MPH which was recorded at the Sea Rim State Park. The peak gust at the NWS office at Jefferson County Airport was 66 knots (75MPH) out of the southeast at 0646CST.									
While the storm caused no major structural damage, there was widespread minor damage and debris littered the streets of Port Arthur and Beaumont. The high winds broke out many windows, and downed countless trees, signs, fences and tree limbs. Fallen trees damaged several homes. High winds ripped the roofs off of numerous homes and businesses. Many schools in the area suffered roof and window damage. The high winds tilted over tractor-trailer rigs and flipped over smaller vehicles. Several aircraft were damaged at local airports. Power was out in most of the area as many utility poles were downed or leaning so that electrical lines were not functional. In Beaumont, high winds blew over the radio tower at the Texas Dept. of Public Safety Building. There were several reports of funnel clouds spotted, but no confirmed tornadoes. In Chambers County, high winds ripped the top off of a mobile home near Winnie. Further inland, high winds on Sam Rayburn Reservoir, damaged boats and marinas, and the damage was estimated at near one million dollars. There were many trees and power lines down in Tyler County.									
Approximately 1300 persons were forced from their homes from flooding that was produced by the torrential rains that accompanied the hurricane. The rains were the heaviest from the Beaumont area northwest to Lake Livingston. As much as 13 inches fell at Ace, in southern Polk County. This heavy rain produced a runoff that resulted in a rise on the Mill and Menard Creek that flooded Bear Foot Lake and some homes surrounding the lake. The lake rose and the flood waters eroded part of the Big Thicket Lake Estate Dam. Below the dam, about 200 families were evacuated in fear that the structure would give way. There was no deaths or injuries from this event. Local flooding occurred in and around Bridge City where 7.5 inches of rain fell. Around 6 inches also fell near Kirbyville along the Jasper-Newton County line. Flooding closed several FM roads in the area. In San Jacinto County, flooding occurred along Big Creek which closed US Hwy. 59 for several hours. In Hardin County, rains in excess of 6 inches fell on the headwaters of Pine Island Bayou and resulted in the flooding of hundreds of homes and businesses. Village creek was flooded in Hardin and Tyler Counties. There was overbank flooding of the Neches River in Tyler, Jasper, Hardin, Orange, Jefferson and Polk Counties.									

TEXAS, Southern

Tx. Hwy. 87 in Jefferson County was closed early on the 26th because of fallen poles and scattered debris. By mid afternoon the road was partially cleared and open for traffic.									
Highest tide from the storm was 5.4 feet at Sabine Pass on the morning of the 26th. Tides were generally 3-4 feet on Bolivar Peninsula. The highest tide at Galveston was 2.2 feet on the evening of the 25th.									
The effects of Bonnie on the counties of Harris and Galveston were trifling or nil. The peak wind at the Galveston WSO was 30 knots out of the northwest at 0445CST. At Alvin, peak wind was 21 knots out of the southwest at 1407CST. Rainfall at both locations was 0.38 and 0.62 inches, respectively.									
An estimated 25,000 persons evacuated the upper coastal areas in the advance of the storm.									
There were no deaths that could be attributed directly to the storm. However, there were 4 related deaths. Two died in traffic accidents, one from a house fire, and another one drowned while in the process of getting fresh water from a pond. The fire victim was the result of the person using candles because of the loss of electricity. The fire also spread very rapidly because of high winds. There were numerous injuries, estimated at 24*. 4 persons were injured in a pickup truck that was flipped over by the high winds. Other persons were injured by falls when they slipped down on wet surfaces made more unstable by the high winds. There were the usual cuts by flying glass. Post storm, one man fell out of a tree while trying to cut a limb. EMS personnel responded to about 40 calls for assistance during the storm. M3V, M56V, F56P, F820									

41 TEXAS, Western

Howard County	01	1517CST			0	0	?	?	Hail
Skywarn Spotter reported golfball-sized hail 10 miles west of Big Spring.									
Andrews County	01	1648CST			0	0	0	0	Hail
Spotter reported 3/4-inch sized hail 1 mile east of Andrews.									
Gaines County	01	1716CST			0	0	0	0	Hail
The Department of Public Safety reported golfball-sized hail near Seminole.									
Lamb County	01	1730CST							Funnel
A funnel cloud was sighted near Earth.									
Scurry County	01	1819CST			0	0	0	0	Hail
Golfball-sized hail 4 miles southeast of Ira was reported.									
Martin County	01	1830CST			0	0	0	0	Hail
Golfball-sized hail in southern Martin County was reported.									
Scurry County	01	1831CST			0	0	0	0	Hail
Baseball-sized hail 2 miles east of Ira was reported.									
Nolan County	01	1845CST			0	0	0	0	Hail
Up to 1-inch sized hail in Maryneal was reported.									
Martin County	01	1915CST			0	0	?	?	Hail
Sheriff's Department reported marble- to golfball-sized hail in the southeast corner of the county.									
Andrews County	02	1125CST							Funnels
Three funnels over Andrews County were reported by spotters and the sheriff.									
Hale County	02	1320CST	Short	30	0	0	0	0	Tornado (FO)
		1320CST	Short	30	0	0	0	0	Tornado (FO)
Two small tornadoes were sighted by Skywarn Spotters. One was located 4 1/2 miles west of Petersburg and the other about 6 miles west of the same town.									
Randall County	02	1530-1630CST			0	0	0	0	Flash Flooding
A small, nearly stationary thunderstorm deposited an estimated 3 inches of rain in a one hour period, causing street flooding that overflowed into homes in Amarillo's southeast side. Residents reported that damage to carpets and interior furnishings had occurred.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1986

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					KILLED	INJURED	PROPERTY	CROPS	
TEXAS, Western									
Midland County	02	1620CST	Short	30	0	0	0	0	Tornado (FO)
									Woman at a radio station reported a tornado that dipped down briefly on Florida Street in Midland.
Brewster County	03	Morning- Early Afternoon			0	0	?	?	Flash Flooding
									Torrential rains, up to 5 inches in an hour, followed hail that piled up 4 feet deep in places. Numerous livestock and wildlife were killed by hail, or drowned in resultant flash flooding along the Glass Mountains between Alpine and Marathon.
Bailey County	04	1245CST	Short	30	0	0	0	0	Tornado (FO)
									A small tornado touched down briefly 6 miles west of Muleshoe.
Bailey County	04	1300CST	Short	30	0	0	0	0	Tornado (FO)
									Bailey County Sheriff reported a tornado 2 miles west of Muleshoe; possibly the same tornado as above.
Lamb County	04	1310CST	Short	40	0	0	0	0	Tornado (FO)
									A small tornado, about 6 miles east of Basner, stayed down for about 3 minutes, moving little.
Hale County	04	1310CST	Short	40	0	0	0	0	Tornado (FO)
									Sheriff's deputy reported a tornado near Interstate 27 just south of Plainview. No damage was reported.
Hale County	04	1323CST							Funnel
									A funnel cloud was sighted about 9 miles west of Abernathy according to the police department.
Hale County	04	1330CST							Funnels
									Police units out of Cotton Center sighted 3 small funnel clouds near Cotton Center.
Bailey County	04	1340CST	Short	30	0	0	0	0	Tornado (FO)
									A small tornado, 3 miles west of Needmore, touched down briefly.
Bailey County	04	1345CST							Funnel
									A funnel cloud was reported by the sheriff 6 miles west-northwest of Muleshoe.
Bailey County	04	1435CST							Funnel
									A funnel cloud was sighted 3 miles north of Coyote Lake.
Crosby County	04	1600CST			0	0	4	0	Hail
									Large hail damaged the roofs of a small cluster of homes 10 miles north of Crosbyton.
Crosby County	04	1630CST			0	0	0	0	Hail
			Short	40	0	0	0	0	Tornado (FO)
									Golfball-sized hail fell in extreme northeast Crosby County, and a small tornado touched down briefly at about the same time and location.
Lubbock County	04	1648CST			0	0	2	0	Wind
									Wind gust to 75 mph was reported at Reese AFB, with only minor damage.
Lubbock County	04	1720CST			0	0	0	0	Wind
									Wind gust to 60 mph was reported about 2 miles west of Slaton.
Dawson County	04	Evening			0	0	0	6	Wind, Hail
									Roughly 10 percent, or 22,500 acres, of the county's cotton crop was destroyed by high wind and hail. Wind gusting to 81 mph drove sand and hail of unknown size across the crops.
Donley County	08	1314CST	Short	40	0	0	0	0	Tornado (FO)
									A tornado touched down briefly on the J.A. Ranch, 10 miles southwest of Clarendon.
Nolan County	08	1500CST			0	0	0	0	Wind
									Wind gust to 64 mph occurred near Sweetwater.
Donley County	08	1510CST	Short	30	0	0	0	0	Tornado (FO)
									A short-lived tornado was reported 5 miles south of Clarendon.
TEXAS, Western									
Hall County	09	1930CST			0	0	5	?	Wind
									A thunderstorm moved southwest-northeast through town, inflicting roof and tree damage due to wind. Wind was estimated to have been 75-85 mph by Memphis Police Chief. Golfball-sized hail and brief torrential rain accompanied the 5-minute storm. An 8 x 15 foot empty fiberglass storage drum was lifted and carried airborne for 250 yards, then thrown into a grove of trees. A telephone building office was partially unroofed, causing approximately 200,000 dollars of water damage to computers. The damage appeared, from debris scattered trajectories, to have been the result of a twisting wet microburst.
Floyd County	16	1432CST 1439CST			0	0	?	?	Hail
									Golfball-sized hail, and a second burst of 2-inch diameter hail, fell in Lockney.
Hale County	16	1535CST			0	0	?	?	Hail
									Hail, 1 inch in diameter, fell in Petersburg.
Lubbock County	16	1553CST			0	0	4	?	Wind, Hail
									A 72 mph gust of wind hit the airport at Lubbock, followed by 78 mph at Reese Air Force Base and 81 mph at Texas Tech. The rest of the city was lashed by the powerful wind a few minutes later. Hail, to 2-inch size, fell in parts of the county. The wind and hail inflicted widespread minor damage to trees, fences, and power lines, as well as to some buildings and houses. The strong wind affected most of the county and surrounding counties.
Hockley County	16	1621CST			0	0	?	?	Wind
									65+ mph wind with considerable blowing dust occurred, according to Skywarn Spotters, just west of the Lubbock-Hockley County Line. The wind toppled fences.
Hockley County	16	1628CST			0	0	0	0	Wind
									59 mph wind at a Levelland radio station was reported.
Lynn County	16	1722CST			0	0	0	0	Wind
									60 mph wind, with near zero visibility due to blowing dust and sand, at O'Donnell was reported.
Terry County	16	1730CST			0	0	?	?	Hail, Wind
									Golfball-sized hail fell 3 miles northeast of Brownfield. At about the same time, 60+ mph wind hit Meadow. The storm lifted sheds and toppled signs and fences. The hail caused no apparent damage.
Garza County	16	1730CST			0	0	0	0	Wind
									60 to 70 mph wind at Post was reported by the local radio station.
Scurry County	16	1849CST			0	0	4	0	Wind
									Thunderstorm wind, gusting to 60 mph, blew down a building front, toppled 17 electrical power poles, and snapped numerous trees around the City of Snyder.
Midland County	16	1856CST			0	0	3	0	Wind
									Wind gusts to 61 mph, about 7 miles west of Midland, occurred at Midland Airport. The wind flipped and damaged an anchored light aircraft.
Ector County	16	1920CST			0	0	?	0	Wind
									The Odessa Fire Department reported a thunderstorm wind gust to 60 mph in Odessa.
Sterling County	16	2002CST			0	0	?	0	Hail
									Golfball-sized hail in Sterling City caused unknown damage.
Crane County	16	2045CST			0	0	4	?	Wind
									The Sheriff's Department reported that 60 mph winds downed power lines and snapped 8 power poles 8 miles south of Penwell.
Nolan County	17	1555CST							Funnel
									A funnel cloud was sighted by the Department of Public Safety 10 miles south of Sweetwater.
Martin County	18	1113CST	Short	30	0	0	?	?	Tornado (FO)
									The Department of Public Safety and a Skywarn Spotter reported a tornado 10 miles north of Stanton.
Martin County	18	1121CST	Short	30	0	0	?	?	Tornado (FO)
									A Skywarn Spotter reported a tornado 7 miles south of Lenorah.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1986

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
TEXAS, Western									
Martin and Howard Counties	18	1133CST	17	60	0	0	?	?	Tornado (FO)
Martin County Emergency Coordinator reported a tornado 14 miles north-northeast of Stanton in Martin County, moving slowly south-east. The tornado crossed the county line and was last seen 4 miles north of Lomax in Howard County.									
Martin County	18	1139CST							Funnels
Two funnels were sighted by Skywarn Spotters north of Highway 176 in the southeastern part of the county, moving slowly south-southeast.									
Howard County	18	1145CST	Short	50	0	0	?	?	Tornado (FO)
A tornado was observed and photographed near U.S. Highway 87 between Ackerly and Vealmoore in the extreme northwest portion of the county.									
Gaines County	20	Afternoon			0	0	4	?	Flash Flooding
Heavy rains from a thunderstorm caused water four feet deep over U.S. Highway 385 just north of Seagraves. The flood waters washed several autos off the road as visibility lowered to zero and the drivers could not see the flood waters. Rain totaled between 4 and 6 inches.									
El Paso County	21	2300-2350CST			0	0	?	5	Hail
Hail, ranging in size from marbles to golfballs, destroyed about 800 acres of cotton near State Highway 20 (13 miles southeast of Tornillo) in the extreme southeast part of the county. The loss was around 400,000 dollars.									
El Paso County	22	1556CST			0	0	0	0	Hail
3/4-inch sized hail fell in west El Paso.									
El Paso County	22	1755CST			0	0	?	0	Wind
Thunderstorm wind to 64 mph hit west El Paso.									
Lubbock County	30	1725CST			0	0	0	0	Wind
Thunderstorm wind to 60 mph was accompanied by heavy blowing dust near Wolforth.									
Lubbock County	30	1745CST			0	0	0	0	Wind
Southwest Lubbock was hit by considerable blowing dust raised by 60 mph wind from a thunderstorm.									
Terry County	30	1830CST			0	0	3	0	Wind
Thunderstorm outflow wind broke several large tree limbs and raised a thick veil of blowing dust.									
Moore County	30	2005CST	Short	30	0	0	0	0	Tornado (FO)
A tornado touched down briefly 10 miles northwest of Dumas.									
42 UTAH									
UTZ003 Wasatch Front	01	0630MST			0	0	1	0	High winds
Easterly canyon winds gusted to 62 mph in Centerville early this Sunday morning.									
Utah County	01	1430MST			0	0	3	0	Thunderstorm Winds
A thunderstorm downburst pushed a 70 foot trailer off its blocks, blew gravel through windows and damaged trees in Provo. A person on the scene reported seeing a funnel in the area at the same time, which was probably a result of the swirling outflow of wind.									
Summit County	07	0130MST			0	0	5	0	Flash Flood
A saturated levee at Trial Lake, in the Uintah Mountains, gave way, and the resulting flash flood washed out Utah Highway 150 in two places. Twenty people were stranded in various campgrounds along the river, but no injuries were reported. Several smaller roadways and bridges were washed out or undermined.									
UTAH									
UTZ002 Great Salt Lake Desert	07	2015MST			0	0	6	0	Flooding
Steady northerly winds, in the 40 to 50 mph range, across the Great Salt Lake, pounded a 200 yard wide breach in the AMAX Magnesium Corporation's outer dike. The break in the 13 mile long dike allowed water from the Great Salt Lake to destroy an intricate system of evaporation ponds, from which minerals were extracted from concentrated Great Salt Lake brine. Dikes which protect American Salt's evaporation ponds were also threatened, as were a section of Union Pacific's railroad tracks across the southern end of the lake. High waves also damaged the 27 mile Southern Pacific causeway, and put that facility out of service for several weeks.									
UTZ003 Wasatch Front	09-09	0100MST-0230MST			0	0	3	0	Flooding
Heavy thundershowers produced basement and street flooding in Davis County. A few basements in Bountiful had 5 to 6 feet of water, and minor street flooding to 10 inches occurred. Rainfall storm totals included 2.31 inches in Centerville, 1.55 inches in Bountiful, and .86 inches in Kearns.									
Davis County	12	1815MST			0	0	4	0	Thunderstorm Winds
Downburst winds damaged the roofs of at least 15 homes and downed trees and 10 blocks of power lines in northern Davis County. The center of intensity appeared to be in the West Point/Clinton area. Residents reported seeing a funnel with the storm.									
Salt Lake County	25	1730MST			0	0	0	0	Funnel Cloud
A small funnel cloud was spotted over the Great Salt Lake, just northwest of the Salt Lake International Airport.									
Wayne County	25	1903MST			0	0	1	0	Thunderstorm Winds
The National Weather Service observer in Hanksville recorded a wind gust to 58 mph. The temperature dropped from 78 degrees to 57 degrees in a short time. Power lines were knocked down, and a funnel was reported by the public.									
43 VERMONT									
Addison County	01	1000EST			0	0	0	0	Hail (1.5)
	01	1258EST			0	0	0	0	Hail (0.75)
Chittenden County	01	1020EST			0	0	0	0	Hail (0.50)
	01	1025EST			0	0	0	0	Hail (0.75)
	01	1025EST			0	0	4	2	High Wind
	01	1045EST			0	0	0	0	Hail (0.75)
	01	1050EST			0	0	3	4	High Wind
	01	1135EST			0	0	0	3	High Wind
	01	1130EST			0	0	0	2	High Wind
	01	1230EST			0	0	0	3	High Wind
	01	1230EST			0	0	0	3	High Wind
	01	1338EST			0	0	0	0	Hail (0.40)
	01	1345EST			0	0	0	5	Hail (1.0)
	01	1445EST			0	0	0	0	Hail (1.0)
Bennington County	01	1010EST			0	0	0	0	Hail (0.25)
	01	1515EST			0	0	0	2	High Wind
	01	1515EST			0	0	0	0	Hail (0.75)
	01	1521EST			0	0	0	2	High Wind
Windham County	01	1530EST			0	0	0	0	Hail (1.0)
Orange County	01	1530EST			0	0	0	0	Hail (1.0)
Widespread thunderstorms hit most sections of Vermont. Trees and power lines were reported down in many areas, and large hail also fell. Strawberry crops were severely affected. Damage was estimated at well over one million dollars to this crop alone.									
VTZ002-003	04	0600EST			0	0	0	5	Frost
Late season frost did some crop damage.									
Bennington County	16	1400EST			0	0	0	2	High Wind
	16	1955EST			0	0	0	2	High Winds
Rutland County	16	1545EST			0	0	0	0	Hail (0.75)
	16	2050EST			0	0	0	2	High Wind
	16	1845EST			0	0	4	2	High Wind
	16	1900EST			0	0	0	2	High Wind
	16	2015EST			0	0	4	3	High Wind
	16	1850EST			0	0	4	3	High Wind
	16	2030EST			0	0	5	2	High Wind
	16	2100EST			0	0	4	2	High Wind
	16	2100EST			0	0	0	3	High Wind
	16	2100EST			0	0	0	0	Hail (0.75)
	16	2115EST			0	0	0	2	High Wind
	16	2100EST			0	0	0	3	High Wind
	16	2100EST			0	0	0	3	High Wind
Essex County	16	2115EST			0	0	0	3	High Wind
Orleans County	16	2100EST			0	0	0	3	High Wind
Orange County	16	2115EST			0	0	0	3	High Wind
Franklin County	16	2140EST			0	0	0	3	High Wind
Caledonia County	16	2140EST			0	0	0	2	High Wind
Washington County	16	2140EST			0	0	0	2	High Wind
	16	2302EST			0	0	0	3	High Wind

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1986

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					KILLED	INJURED	PROPERTY	CROPS	
VERMONT									
			Widespread thunderstorms with damaging winds battered the entire state. Trees and power lines were downed in many areas; hardest hit areas were Fairfax, Peron Hill, and St. Albans. Anchored boats in Lake Champlain were sunk while moored.						
Orleans County	24	1400EST			0	0	0	2	High Wind
Windsor County	24	1400EST			0	0	5	3	High Wind
Rutland County	24	1400EST			0	0	3	3	High Wind
Lamoille County	24	1400EST			0	0	0	3	High Wind
			Convective winds knocked down trees and power lines. Roofs were damaged in Pawlet and Woodstock.						
Rutland County	28	1700EST			0	0	2	2	High Wind
			Thunderstorms hit Rutland County, knocking down trees and power lines.						
44 VIRGINIA									
City of Lynchburg	11	1830EST			0	0	4	0	Thunderstorm
			Heavy thunderstorm rains caused localized flooding and sewer backups. Power outages occurred to over 3000 customers for several hours. One house was struck by lightning, causing minor damage.						
Hanover County	20	1645EST			0	0	?	?	Hail
			3/4 inch hail fell at Hanover County Airport in western Hanover County.						
Westmoreland County	28	1700EST			0	0	4	0	Thunderstorm Winds
			High thunderstorm winds of over 50 knots damaged Stratford Hall Plantation near Montross where twenty or more trees were uprooted or felled by winds and lightning. The damage included a tree fallen on a cabin and a car. Damage to the stable area was also reported.						
Rockbridge County	30	1445EST-1505EST			0	0	4	0	Thunderstorm Winds
			Numerous trees, branches and power lines were downed, and several cars damaged. Power outages lasting as late as midnight occurred to over 1000 customers.						
45 WASHINGTON									
Thurston, Pierce, King, Snohomish, Kitsap, Island, and San Juan Counties	14	1200-1500PST			0	0	?	0	Thunderstorm
			An active thunderstorm moved through the Puget Sound region. The squall line was formed as cool marine air rushed inland from the coast and mixed with hot air that was over the interior. Numerous boats were capsized by gusty winds which were measured as high as 51 knots at the Hood Canal Bridge (west Puget Sound). At least one boat was stranded in the San Juan Islands. Much of the area had lightning-induced power outages.						
Western Washington Interior	18	0900PST in south, 1500-1600PST in north			0	0	0	0	Funnel clouds, Thunderstorms
			Numerous funnel cloud sightings were reported from interior sections of Western WA. Very unstable air in the wake of a cold front was over the area. In Longview, near the Columbia River, a tree was reportedly uprooted about 10am because of high surface winds associated with a funnel cloud. By late afternoon, several sightings from around the Seattle Metropolitan area were phoned into the National Weather Service Forecast Office. No damage was observed in the Seattle area.						
46 WEST VIRGINIA									
Randolph County	07	1345EST			0	0	?	0	Hail (1.00), Wind
			An isolated thunderstorm produced high winds and one inch hail in Valley Bend. Four large trees were blown over. A tin roof was blown off a flea market. Rainfall totalled 1.37 inches in 20 minutes.						
Wetzel County	27	1938EST			0	0	?	0	Hail (0.75)
			3/4 inch diameter hail was reported in the northern part of New Martinsville during a thunderstorm. Power lines were damaged by falling trees on Route 7.						
47 WISCONSIN									
Belleville, Dane Co.	10	1600CST			0	0	3	3	Thunderstorm Winds
			Strong thunderstorm winds toppled large trees onto several homes in Belleville.						
Durand, Pepin Co.	10	2030-2110CST			0	0	5	5	Thunderstorm Winds
			Thunderstorm downburst winds up to 80 mph caused major damage to several homes and barns, and downed numerous trees and power lines in the Durand area. Roofs were torn off a couple of homes and barns. Falling trees crushed several vehicles.						
Chippewa Falls, Chippewa Co.	10	2050CST			0	0	0	?	Hail (1.75)
	10	2030-2110CST			0	0	3	?	Thunderstorm Winds
			Intense thunderstorm winds blew down several trees and power line poles in the Chippewa Falls area. Golfball size hail fell at Lake Wissota.						
Adams, Adams Co.	11	0055-0100CST			0	0	1	4	Thunderstorm Winds
			Thunderstorm downburst winds hit a heavily wooded, 30 acre parcel of land SW of Adams. Several large trees were snapped off 1/3 to 1/2 of the way up while numerous others were knocked down, uprooted or bent over. The winds affected an area 1/2 mile long and 1/4 mile wide, with only minor property damage occurring.						
Dalton, Green Lake Co.	11	1315CST			0	0	0	0	Hail (1.75)
			A severe thunderstorm produced golfball size hail near Dalton.						
Big Flatts, Adams Co.	11	1405CST			0	0	0	0	Hail (1.75)
			A violent thunderstorm dumped golfball size hail at Big Flatts.						
Naukesha, Naukesha Co.	11	1425-1445CST			0	0	4	?	Thunderstorm Winds
			Thunderstorm winds gusting up to 69 mph damaged some hangars at the Naukesha County airport and downed several trees in the Sussex area.						
Cambellsport, Fond Du Lac Co.	11	1450- 8.0 1520CST	100		0	0	5	0	Tornado (F2)
			A tornado skipped along an 8 mile path across southeast Fond Du Lac County. It touched down near Ashford, damaging a trailer, cement shed and barn. The storm's associated winds blew over an 80 foot cement silo near Cambellsport and tipped over several pole buildings. The final destruction took place near Naucousta where a horse barn was destroyed and a metal feed trough was blown about 1/4 mile down the road. Extensive tree damage also took place, especially near highways 45 & 67.						
Appleton and Hilbert, Calumet Co.	19	1707-1738CST			0	0	0	0	Hail (1.50)
			A severe thunderstorm dumped hail up to walnut size in Appleton and 3/4 inch hail at Hilbert.						
Markesan, Green Lake Co.	19	1915CST			0	0	0	0	Hail (0.75)
			3/4 inch diameter hail fell from a severe thunderstorm just north of Markesan.						
Superior, Douglas Co.	21	1700-1745CST			0	0	6	6	Thunderstorm Winds
			A severe thunderstorm packing winds up to 85 mph ripped through the Superior area, uprooting or snapping 500 trees, 40 of which landed upon homes, and damaging several cars. The winds blew off a roof of a freezer/cooler company, causing \$400,000 worth of food to spoil and \$100,000 damage. A 50,000 gallon storage tank was leveled at a nearby factory, causing \$200,000 damage. 3 airplanes were demolished at Sky Harbor airport and several others, damaged. 12,000 customers lost all electrical power. A 50 foot radio tower was bent over. Trees and power lines were also knocked over in the Solon Springs and Lake Nebagamon areas.						

STORM DATA AND UNUSUAL WEATHER PHENOMENA

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					KILLED	INJURED	PROPERTY	CROPS	
WISCONSIN									
Bayfield Co.	21	1745-1810CST			0	0	5	?	Thunderstorm Winds
		Intense thunderstorm winds caused spotty damage across Bayfield County. Several trees were leveled and a storage shed, destroyed near Port Wing. Downed trees and wires, and substantial damage to a partially built swimming pool occurred at Bayfield. Large trees were damaged or were uprooted in Drummond.							
Couderay, Sawyer Co.	21	1820-1825CST	0.5	75	0	0	5	?	Tornado (F1)
		A small tornado extensively damaged a 14X70 foot mobile home, a barn and house, as well as uprooting numerous trees from a golf course 1W of Couderay.							
Glen Flora, Rusk Co.	21	1900-1910CST			0	0	5	?	Thunderstorm Winds
		Thunderstorm downburst winds caused substantial damage to numerous trees and 3 residences in Glen Flora. A 12X16 foot deck was ripped away from a twisted mobile home, and 2 metal sheds were blown away. A camper was torn from its pickup truck, several roofs were blown off homes, and a small radio tower was bent over.							
Price Co.	21	1927-1935CST			0	0	4	?	Thunderstorm Winds
		Strong thunderstorm winds blew a roof off a house 3E of Phillips and knocked down trees and power lines in the Park Falls, Fifield, and Prentice areas.							
Medford, Taylor Co.	21	2000CST			0	0	?	?	Thunderstorm Winds
		Intense thunderstorm winds uprooted several large trees in Medford.							
St. Croix Co.	23	1520-1535CST			0	0	3	5	Thunderstorm Winds, Hail
		Wind-driven hail up to marble size cut several hail swaths across St. Croix County, severely damaging crops on 15 farms, with lesser damage on 25 other farms occurring. The hardest hit area was south of I-94 from Roberts to Woodville. Damage occurred to corn, soybean and barley along one, 2 mile wide swath. Roof damage took place at several homes, and a few large trees were uprooted.							
Marquette Co.	23	1602CST			0	0	0	?	Thunderstorm Winds
		Winds gusting up to 60 mph during a severe thunderstorm felled several trees 5S of Westfield.							
Thorp, Clark Co.	23	1630CST			0	0	3	0	Thunderstorm Winds
		Very strong thunderstorm winds blew a roof off a patio and onto a car, breaking the windshield and crushing the car in Thorp. The winds also knocked down some trees and power poles.							
Stevens Point, Portage Co.	23	1745-1800CST			0	0	3	?	Thunderstorm Winds
		Intense thunderstorm winds felled 40 trees and several power poles in Stevens Point. Roofs were damaged at a few homes.							
Pewaukee, Waukesha Co.	23	1905CST			0	0	5	0	Lightning
		Lightning struck a Pewaukee home and the resulting fire caused \$125,000 damage.							
Lake Franklin, Forest Co.	25	1810CST			0	0	0	?	Hail (1.50)
		Hail up to 1-1/2 inch in diameter falling from a severe thunderstorm covered the ground near Lake Franklin.							
Abbotsford, Marathon Co.	26	1545-1555CST			0	0	?	?	Thunderstorm Winds
		Extremely strong thunderstorm winds caused widespread tree damage in Abbotsford.							
Langlade Co.	26	1630CST			0	0	5	?	Thunderstorm Winds
		Violent thunderstorm winds uprooted several large pine trees, one of which crashed onto a machine shop about 7NW of Antigo. The winds also ripped off a barn roof, leveled a wooden shed, and flipped over a feed cart.							
Nekoosa, Wood Co.	26	1706CST			0	0	?	?	Thunderstorm Winds
		A severe thunderstorm generated winds which gusted to 65 mph at Nekoosa.							
WISCONSIN									
Near Sparta, Monroe Co.	26	2017-2025CST	5.5	100	0	0	5	5	Tornado (F2), Hail
		A tornado skipped along a 5-1/2 mile path, first touching down near Highway 16, 5W of Sparta and moved northeast before lifting 2-1/2N of Sparta. The twister lifted a large roof from a machine shed, heavily damaged 2 buildings, and destroyed a small windmill. Associated thunderstorm winds leveled trees and damaged roofs on neighboring farms, and also blew down a pole barn and tipped a recreational vehicle over. 2 to 4 inches of rain accompanied the storm which caused \$750,000 in soil damage because of washing, and marble size hail damaged \$236,000 worth of crops.							
Rock Co.	27	0225CST			0	0	4	0	Lightning
		Lightning struck the attic of a house 1N of Janesville. The resulting fire burned out the attic and caused \$40,000 damage.							
Walworth Co.	27	0230-0240CST			0	0	5	0	Thunderstorm Winds
		Intense thunderstorm winds ripped the roofs from a house and pole shed, tipped over 2 cement pillars, moved a small shed, and uprooted several trees near Richmond. In Elkhorn, several tree limbs and a large tent were blown down.							
Burlington, Racine Co.	27	0240CST			0	0	4	0	Thunderstorm Winds
		Thunderstorm winds felled several trees and power poles in Burlington. One large tree damaged a roof and fence of a nearby house.							
48 WYOMING									
Fremont County, Shoshoni	07	1530MST	2.0	50	0	0	5	0	Tornado (F2)
		A tornado formed south of Shoshoni and moved northeast through the town. Several mobile homes were damaged, one two-story building was destroyed, and debris was scattered throughout the town. Damage was estimated at \$100,000. The local electric association measured the wind to 120 mph.							
Park County, 20 SW Powell	07	Afternoon			0	0	0	?	Hail (0.75)
		Hail up to 3/4 inch in diameter damaged around 1000 acres of barley, sugar beets, and alfalfa hay in the Heart Mountain area, twenty miles southwest of Powell.							
Platte County: 5 NW Guernsey	07	1720MST			0	0	?	0	Hail (1.75)
Guernsey	07	1755MST			0	0	?	0	Hail (1.75)
		Golf ball size hail fell in the town of Guernsey at 1720MST. The hail was reported at Guernsey State Park, just northwest of the town, 35 minutes before.							
Goshen County: 12 NW Torrington	07	1910MST	2.0	25	0	0	0	0	Tornado (F0)
25 NW Torrington	07	1900MST to 2200MST			0	0	?	0	Flash flood
		A tornado was reported by law enforcement personnel at 1910MST between Lingle and Ft. Laramie, about 12 miles northwest of Torrington. Traffic along U. S. Highway 26, between Guernsey and Ft. Laramie, was blocked from 1900MST to 2200MST due to debris and water up to 4 feet deep. This was about 25 miles northwest of Torrington.							
Converse County, 15 E Douglas	08	Afternoon			0	0	?	?	Hail (1.75)
		Golf ball size hail fell between Orin and Lost Springs, about 15 miles east of Douglas, during the late afternoon. Heavy rain washed hail into drifts as much as 4 feet deep. Over 7 inches of rain fell at Lost Springs. There were several reports of washed out roads in Converse County.							
Laramie County: 1 NW Carpenter	08	1610MST			0	0	3	4	Hail (1.75)
3 W Carpenter	08	1643MST			0	0	4	5	Hail (4.00)
Albin	08	1650MST	2.0	25	0	0	0	0	Tornado (F0)
5 S Hillsdale	08	1715MST			0	0	0	?	Hail (1.75)
		Golf ball size hail was reported just northwest of Carpenter at 1610MST. At 1643MST, softball size hail was reported about 3 miles west of Carpenter. There was considerable damage to crops. Vehicles and houses were also damaged. At 1650MST, Air Force personnel reported a tornado near Albin. At 1715MST, golf ball size hail fell 5 miles south of Hillsdale.							

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 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	
WYOMING									
Goshen County: La Grange 14 S Lusk	08	1745MST			0	0	?	0	Hail (1.75)
	08	1805MST	1.0	25	0	0	0	0	Tornado (F0)
	Golf ball size hail was reported at La Grange at 1745MST. At 1805MST, fire department personnel reported a tornado about 14 miles south of Lusk on the Goshen and Niobrara County line near U. S. Highway 85. The tornado was on the ground for only a couple minutes.								
Albany and Carbon Counties, 35 NW Laramie	10	1941MST			0	0	5	0	Flash flood
	Pierce Dam failed at 1941MST, spilling its contents into Rock Creek. This was about 35 miles northwest of Laramie along the Albany and Carbon County line. A bridge over Rock Creek along Wyoming Highway 13 was undercut. There was some flooding of buildings and ranch lands where Rock Creek runs into the Medicine Bow River.								
Goshen County, 15 N Torrington	12	1710MST			0	0	0	?	Hail (2.00)
	Ping-pong ball size hail was reported 15 miles north of Torrington at 1710MST.								
Natrona County: Bar Nunn Casper	12	1900MST	1.0	25	0	0	3	0	Tornado (F1)
	12	1900MST			0	0	?	0	Hail (1.75)
	A tornado tore off half the roof of a home at Bar Nunn. Four trailers were also damaged at 1900MST. About the same time, golf ball size hail fell on the west side of Casper.								
Converse County, 5 W Glenrock	12	2030MST			0	0	0	?	Hail (2.75)
	Baseball size hail was reported about 5 miles west of Glenrock at 2030MST.								
Platte County: Wheatland 6 N Chugwater	13	1330MST to 1345MST			0	0	?	0	Hail (1.75)
	13	1451MST to 1510MST	15	25	0	0	0	0	Tornado (F0)
	Quarter-inch to golf ball size hail fell in Wheatland from 1330MST to 1345MST. A tornado was reported by a Platte County sheriff's officer at 1451MST, 6 miles north of Chugwater. The tornado was last seen 10 miles east of Slater at 1510MST.								
Goshen County, 13 S Torrington	13	1537MST			0	0	0	0	Hail (1.75)
	Golf ball size hail occurred 13 miles south of Torrington at 1537MST.								
Laramie County, 3 SW Albin	13	1720MST	1.0	25	0	0	2	0	Tornado (F0)
	A tornado, reported by Civil Defense authorities, downed power lines 3 miles southwest of Albin at 1720MST.								
Crook County, Hulett	14	1150MST			0	0	?	0	Hail (1.75)
	Golf ball size hail fell in Hulett at 1150MST.								
Freemont County, Lander	14	1455MST			0	0	0	0	TSTM Wind (63)
	Wind gusts to 63 mph were logged at the Lander airport.								
Park County, Cody	14	2000MST			0	0	?	0	TSTM Wind (81)
	A thunderstorm produced wind gusts to 81 mph in Cody at 2000MST.								
Natrona County, Casper	19	1725MST to 1930MST			0	0	6	0	Flash flood
	Flash flooding occurred along Casper Creek. Extensive damage was reported just west of Casper. Over 2.5 inches of rain fell on the west side of Casper from 1730MST to 1930MST.								
Park County, Powell	19	Evening			0	0	4	0	Lightning
	Lightning struck the Powell water treatment plant, destroying an electrical transformer and damaging other electrical equipment. Damage estimates ran slightly more than \$10,000.								
Laramie County: 25 N Cheyenne 30 NW Cheyenne	20	1410MST			0	0	0	0	Hail (0.75)
	20	1430MST			0	0	0	0	TSTM Wind (58)
	Three-quarter inch hail was reported 25 miles north of Cheyenne at 1410MST. Thunderstorm gusts to 58 mph were logged at an Air Force site 30 miles north-northwest of Cheyenne at 1430MST.								
Campbell County, Gillette	20	1453MST and 1513MST			0	0	?	0	TSTM Wind (76)
	Thunderstorm wind gusts to 76 mph were recorded at the Gillette airport at both 1453MST and 1513MST.								
WYOMING									
Platte County, 3 E Glendo	21	1912MST			0	0	?	0	Hail (2.75)
	Baseball size hail was reported by the Wheatland police just east of Glendo. The hail fell at the Glendo Reservoir, about 3 miles east of Glendo, and occurred at 1912MST.								
Yellowstone National Park, Northeast Entrance	27	1840MST			0	0	?	0	TSTM Wind (75)
	Winds gusting to 75 mph and marble size hail accompanied a thunderstorm at the northeast entrance to Yellowstone Park at 1840MST.								
Goshen County, 25 N Torrington	29	1915MST to 1930MST			0	0	0	?	Hail (2.75)
	Egg to baseball size hail occurred 25 miles north of Torrington from 1915MST to 1930MST.								
Weston County, 10 N Newcastle	30	0031MST			0	0	0	0	Hail (2.0)
	Egg size hail fell 10 miles north of Newcastle, midway between Newcastle and Osage at 0031MST.								
49 ALASKA, Northern	NO REPORT RECEIVED								
49 ALASKA, Southern	NO REPORT RECEIVED								
49 ALASKA, Southeastern	NONE REPORTED								
50 HAWAII	NONE REPORTED								
51 PUERTO RICO	NONE REPORTED								
52 VIRGIN ISLANDS	NONE REPORTED								
53 PACIFIC	NONE REPORTED								

STORM SUMMARY

JUNE 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 60				SEE PAGE 60												
Number					8			9	1	1	3		8	1						2	9		4	2	10		1	
Days					3			8	1	1	2		2	1						2	5		1	2	6		1	
Deaths																												
Injuries					6						1																	
Property Damage					6			5	4	3	4		6	3						6	4				6		5	
Crop Damage											4		5	3							?	?		?	4		4	
HAIL																												
Deaths																												
Injuries																												
Property Damage	3				3				3	5	3		2	4	4				?					4	8		3	
Crop Damage	3				5				5	7	3		5	5							6			6	8		8	
THUNDERSTORM WINDS																												
Deaths																												
Injuries		1	15						2																			
Property Damage	4	5	4		4	3		5	5	5	5		6	5	4					3	4	6	5	5	5	20	4	
Crop Damage	3										?		4	3									2	5	5	8	7	
HIGH WINDS																												
Deaths																												
Injuries																		1										
Property Damage																		2										
Crop Damage										5				2							3							
LIGHTNING																												
Deaths					1			4	1				1															
Injuries					5			17	11																			
Property Damage								4	5				4	4														
Crop Damage	?		8					4	3	5			2	4														1
FLASH FLOODS																												
Deaths																												
Injuries																												
Property Damage																												
Crop Damage																												
FLOODS																												
Deaths																												
Injuries																												
Property Damage																												
Crop Damage					5																							
HEAVY SNOWSTORMS AND BLIZZARDS @																												
Deaths																												
Injuries																												
Property Damage																												
Crop Damage																												
ICE STORMS #																												
Deaths																												
Injuries																												
Property Damage																												
Crop Damage																												
HURRICANES AND TROPICAL STORMS																												
Deaths																												
Injuries																												
Property Damage																												
Crop Damage																												
ALL OTHERS																												
Deaths																												
Injuries																												
Property Damage																												
Crop Damage																												
													3															

SEE REFERENCE NOTES FOR STORM DAMAGE CATEGORIES

STORM SUMMARY

JUNE 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	7	12	5	1					8	SEE PAGE 60	24					SEE PAGE 60									
Days			1	3	6	2	1					5		7														
Deaths																												
Injuries			2		1																						17	
Property Damage			5	5	7	6						3		?														
Crop Damage			4	?	7									?														
HAIL																												
Deaths																												
Injuries												20																20
Property Damage			3	5	7	4	?	?	?		5	5		4			?											
Crop Damage		5	3	5	7		?	5			6	?		5		5	?											
THUNDERSTORM WINDS																												
Deaths																												1
Injuries			5		12	2	2		15		1																89	
Property Damage	?	3	6	5	7	6	6	?	6		5	6		5	4	5	5	?										
Crop Damage			4	5	7		?	?			2	?		?		3												
HIGH WINDS																												
Deaths			4																									5
Injuries			9																									11
Property Damage			7											5	1	5												
Crop Damage		4	5											6		3												
LIGHTNING																												
Deaths				1		1	1																					13
Injuries			3	3	2	2	5		2	5	3	3															76	
Property Damage			5	5	6	2	?	5	6		6	?					3											
Crop Damage			1	?	5		?		?			?																
FLASH FLOODS																												
Deaths							1							3														5
Injuries								?						2														9?
Property Damage			6	5	4	6	?	5		4				7	5													
Crop Damage				?		6	?	5						6														
FLOODS																												
Deaths																												
Injuries																												
Property Damage			6	5		?	?		5						6													5
Crop Damage			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														24														24
Crop Damage														6														
ALL OTHERS																												
Deaths											1																	2
Injuries																												1
Property Damage																												
Crop Damage			5	?							6	6				5												

SEE REFERENCE NOTES FOR STORM DAMAGE CATEGORIES

STORM SUMMARY

JUNE 1986

STATE	TORNADOES				HAILSTORMS			WINDSTORMS				LIGHTNING				FLOODING				HEAVY SNOWSTORMS AND BLIZZARDS				ICE STORMS				ALL OTHER			
	NUMBER	DAYS	DEATHS	INJURIES	DAMAGE	DEATHS	INJURIES	DAMAGE	DEATHS	INJURIES	DAMAGE	DEATHS	INJURIES	DAMAGE	DEATHS	INJURIES	DAMAGE	DEATHS	INJURIES	DAMAGE	DEATHS	INJURIES	DAMAGE	DEATHS	INJURIES	DAMAGE	DEATHS	INJURIES	DAMAGE		
																														PROP. ERTY	CROPS
Indiana Louisiana Tennessee West Virginia	5	1		7	5			3	3	5 ? 4 ?	?	?	2	5 3 5			7 4	?										1	6 5	?	
<p>Numbers of deaths and injuries above are included in monthly totals on page 59.</p>																															

REFERENCE NOTES

† Storm damage categories are from 1 to 9 as follows:

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

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

Definition of Fujita Tornado Scale (F scale)

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

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

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

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

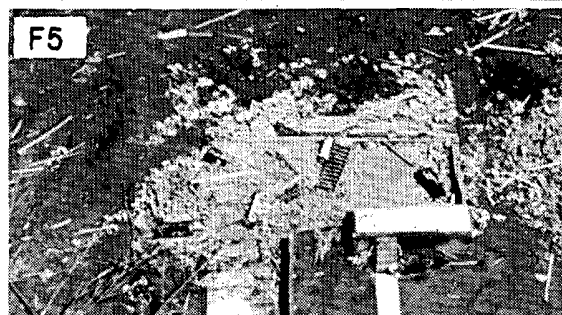
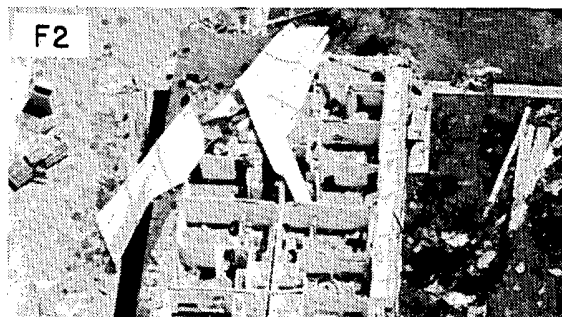
(F4) Devastating tornado (207-260 mph): Devastating damage
Well-constructed houses leveled; structure with weak foundation blown off some distance; cars thrown and large missiles generated.

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

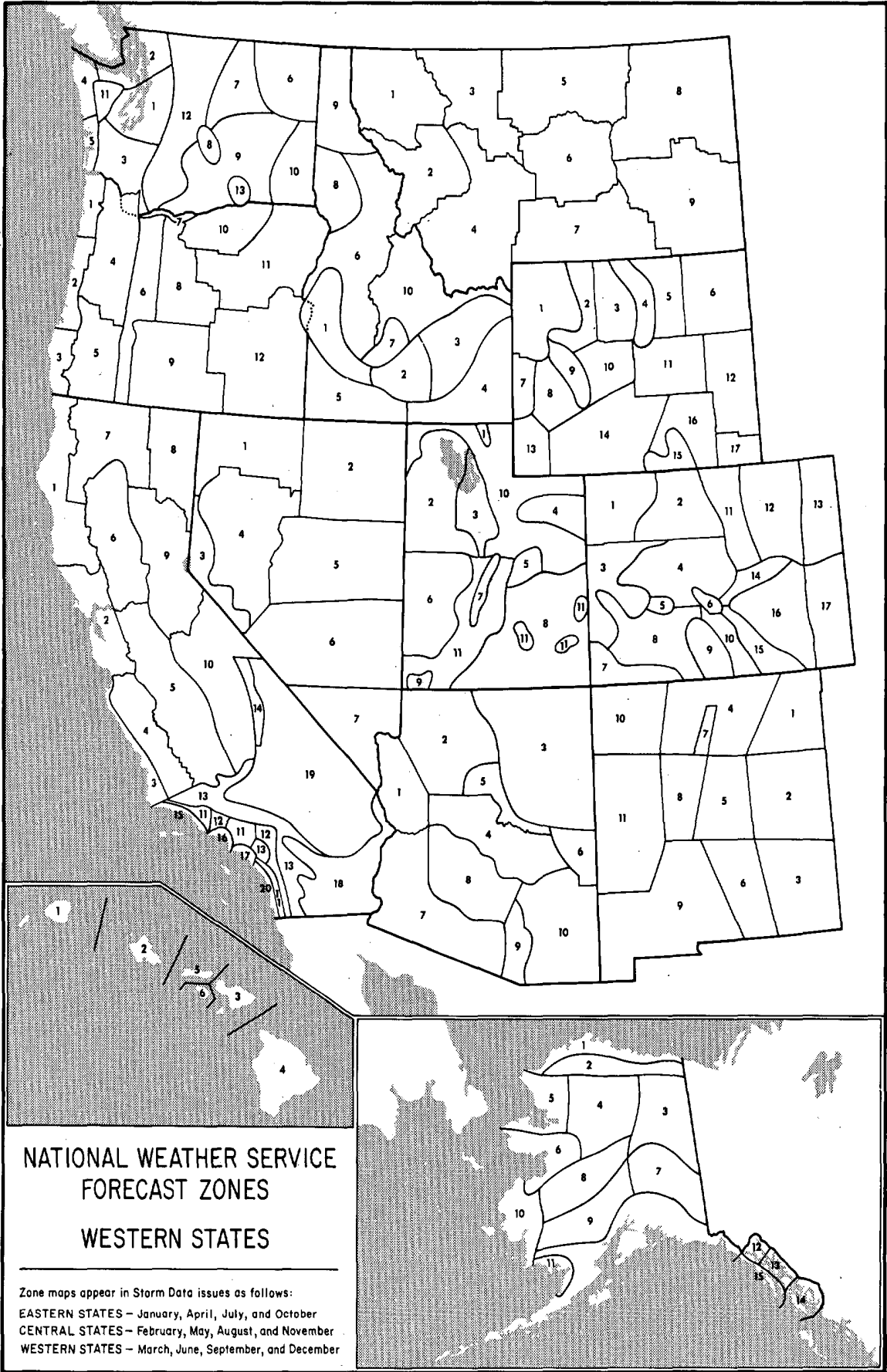
(F6-F12) (319 mph to Mach 1, the speed of sound):
The maximum wind speeds of tornadoes are not expected to reach the F6 wind speeds.

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

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



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





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

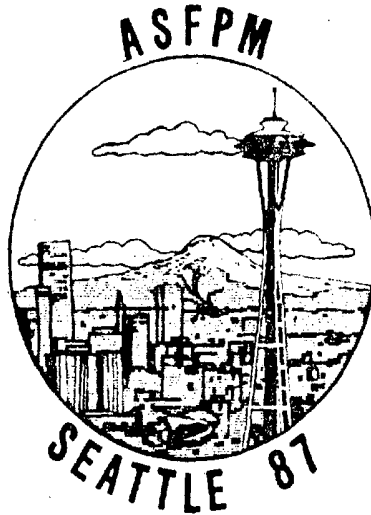
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Association of State Floodplain Managers
11th Annual Conference
Seattle, Washington
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FLOODPLAINS '87: Realistic Approaches to Better Management

* * CONFERENCE DETAILS ON PAGE REVERSE * *

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