

AUGUST 1978

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NUMBER 8

STORM DATA



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NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

ENVIRONMENTAL DATA AND
INFORMATION SERVICE

NATIONAL CLIMATIC CENTER
ASHEVILLE, N.C.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1978

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	
ALABAMA											
Mobile County	4	2:50p	-	-	0	0	5	0			Lightning
											Lightning hit some oil storage tanks at Citronelle, north of Mobile. The tanks caught fire and burned for over 3 hours, causing around \$250,000 in damage. Five crude oil tanks were affected.
DeKalb County	4	5:00p	-	-	0	0	4	0			Windstorm
											High winds from a severe thunderstorm caused damage in the High Point area just north of Fort Payne. Two houses were damaged, 1 house trailer destroyed, a double carport destroyed, and one other building was destroyed.
Cullman County	8	3:25p	-	-	0	0	0	0			Hail
											A large thunderstorm produced hail as large as golfballs 3 miles west of Cullman.
Jefferson County	8	3:55p	-	-	0	0	2	0			Hail
											A severe thunderstorm produced hail larger than golfballs, 15 miles southwest of Birmingham. The hail broke the windshield out of a truck on interstate 59.
Mobile County	10	7:45a	-	-	0	0	0	0			Waterspouts
											Three waterspouts were sighted by the U.S. Coast Guard about 4 miles south of Dauphin Island.
Mobile County	19	3:40p	-	-	0	0	4	0			Wind/hail
											A severe thunderstorm produced winds estimated at 70 to 75 miles an hour on the south and southwest side of Mobile. A church, school, and several homes were damaged. Trees and power lines were also blown down. The same storm also produced 3/4 inch hail 6 miles southeast of the Mobile airport.
Coffee County	19	6:10p	-	-	0	0	0	0			Funnel cloud
											A funnel cloud was sighted near New Brocton by the Alabama State Troopers. The funnel was moving southeast but did not touch down and no damage resulted.
Montgomery County	19	9:40p	-	-	0	0	0	0			Hail
											Golfball size hail fell from a large thunderstorm at Mt. Meigs, ten miles east of Montgomery.
ALASKA											
Southwest and South Central	20				0	0	5	0			Coastal Flood; Wind
											A storm moved northeastward through the western Aleutians on the afternoon of August 18 and continued on a track toward Norton Sound, where it was located on the evening of August 19. The low center moved onshore over the eastern Seward Peninsula on the morning of August 20 and weakened thereafter. The associated weather front moved through south central Alaska on August 20.
											Rises in water level of 6 feet or possibly more occurred on the Yukon and Kuskokwim Deltas in the morning hours of August 20 as southwesterly winds to 50 knots blew over those areas following the frontal passage. About \$50,000 worth of damage was done in the village of Kotlik, situated on the Yukon Delta. Nearly all of the damage was in lost boats, motors and fishing gear.
											Heavy surf washed out a small section of new dirt road on the eastern shore of Cook Inlet on August 20 following the frontal passage accompanied by strong southwest winds. Minor wind damage was sustained in Anchorage.
ARIZONA											
Green Valley Pima County	1	6:30 p.			0	0	4	0			Hail, Wind, Flooding
											A severe thunderstorm with very strong winds, heavy rain and golf ball size hail swept through the area. Fifty mobile homes sustained minor damage, signs were knocked down and trees uprooted. Rain runoff damaged streets and walks and did considerable damage to a golf course.
Salome Yuma County	1	7:20 p.			0	0	4	0			Wind
											A severe thunderstorm with winds gusting up to 70 m.p.h. did some damage to trailers, farm equipment, buildings and signs.
Greater Phoenix Area Maricopa County	2	10-11:00 p.			0	0	5	0			Wind, Lightning
											A severe thunderstorm with winds up to 62 m.p.h. and locally heavy rain battered the area. Hardest hit were Mesa and Tempe where damage was done to travel trailers, buildings, power lines, signs and trees. Lightning caused a rash of small fires and damaged power lines and transformers.
ARIZONA (continued)											
Green Valley Pima County	3	7:00 p.			0	0	4	0			Wind
											A vicious thunderstorm with winds up to 60 m.p.h. damaged carports and roofs of 40 mobile homes.
Greater Phoenix Area Maricopa County	3	11-12 p.			0	0	5	0			Wind, Lightning, Flooding
											A severe thunderstorm with winds up to 60 m.p.h. and locally heavy rain swept through the area. The hardest hit was the west and northwest sides where there was considerable damage to carports, mobile homes, roofs, signs, trees and power lines. Lightning strikes caused numerous fires and damage to power lines and transformers. Damage to one home alone caused by lightning was put at \$20,000, and damage to one industrial building \$120,000. The Black Canyon Freeway was closed for a while due to flooding.
Greater Phoenix Area Maricopa County	6	8:30-9:30 p.			0	0	5	0			Wind, Lightning
											The third major thunderstorm in less than a week smashed into the area with record breaking winds for August of 76 m.p.h. Extensive damage was done by the wind and lightning. Power lines were downed, roofs blown off, mobile homes damaged, large signs and fences blown down and trees uprooted. The roof of a power station was blown onto a 69,000 volt line. Lightning strikes caused considerable damage to power lines and transformers. A car struck by a falling power line caused it to burn, but occupants escaped. Lightning set fire to a three-fourth mile long row of baled hay. The metal roofing of a large motel was blown onto a power line and caused a \$150,000 fire. Damage to utilities alone from the three major storms was put at \$200,000.
Greater Phoenix Area Maricopa County	7	8-10:00 p.			0	0	5	0			Wind, Lightning
											A fast moving violent thunderstorm with winds up to 60 m.p.h. swept across the western and northwestern portions of the area and did considerable damage to roofs, mobile homes, power lines, signs and trees. In one mobile home estate only 6 of the 110 units escaped damage. Lightning set fire to a number of homes, power lines and trees and exploded several transformers.
Dolan Springs Mohave County	12	4:00 a.			1	0	2	0			Lightning
											A lineman from a utility company was struck by lightning and killed while working on a power line pole. The pole had replaced the one that was struck by lightning and burned several hours earlier.
Tucson Pima County	17	Afternoon			0	1	4	0			Wind, Lightning
											The thunderstorm that roared through the city tore one-third of the roof off a bank building and dropped it on parked cars. One man, while working on top of a storage complex, was struck in the chest by a bolt of lightning and fell 9 feet to the floor and was in critical condition.
ARKANSAS											
Just south of Little Rock - Pulaski County	11	1:30 p.			1	0	0	0			lightning
											A fourteen-year old girl was struck and killed by lightning while she was removing clothes from a metal clothesline.
Benton - Saline County	11	1:54 p.			0	1	0	0			Lightning
											A construction worker was struck and injured by lightning while he was operating a road packer on an Interstate 30 service road.
Pine Bluff Arsenal located just Northwest of Pine Bluff - Jefferson County	11	3:05 p.			0	0	0	0			Hail
											Thunderstorms produced three-quarter inch hail. No damage was reported.
Jonesboro - Craighead County	13	5:50 a. to 6:01 a.	4	50	0	3	6	0			Tornado
											A tornado moving southeastward touched down and damaged or destroyed several mobile homes on Bridges Road. It also caused extensive damage to several businesses in the city's industrial section. Three people living in mobile homes received minor injuries. Winds gusted to 69 m.p.h. at the Jonesboro Airport. Damage was estimated at \$81 thousand dollars.
Craighead County	13	Around 6:00 a.			0	0	4	?			Wind/Hail/Rain
											Heavy thunderstorms moving through the county produced high winds, golf-ball sized hail, and heavy rain. Some homes and several fields of cotton and soybeans sustained damage. Property damage was estimated at over 9 thousand dollars, but no estimate of crop damage was available.

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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 (continued)										
Bald Knob-White County	13	11:45 a.			0	0	0	5	c	Hail/Wind
										High winds and marble-sized hail caused considerable roof and window damage. Several fields of crops around the city also sustained damage. Damage was estimated at about 250 thousand dollars.
Just West of Bono to Just Northwest of Jonesboro - Craighead County	16	7:30 p.	6	20	0	0	3	0		Tornado/Hail
										A tornado moving east-southeastward touched down several times in open areas, but caused only tree and power line damage. Golf-ball sized hail also fell at the same time.
Just Northwest of Bay - Craighead County	16	8:45 p.	** 75	25	0	0	0	0		Tornado/Hail
										A tornado moving eastward touched down briefly in an open area. Golf-ball sized hail also fell at the same time. No damage was reported.
Five Miles West of Blytheville Air Force Base - Mississippi County	16	9:10 p.								Funnel Cloud
										A funnel cloud moving eastward was reported by personnel of Radio Station KLCN.
North Little Rock - Pulaski County	19	2:30 p.			0	1	0	0		Lightning
										A man was struck and severely injured by lightning while he was at home.
Southern Pulaski County	19	3:15 p.			0	2	0	0		Lightning
										An eighteen year old man was injured by lightning while talking on the telephone. A next door neighbor was also injured when the lightning traveled down a stove pipe into her home.
Henderson - Northeastern Baxter County	25	3:30 p.			0	0	4	0		Wind/Hail/Funnel Cloud
										Thunderstorms moving through the area produced high winds, and one and one-quarter inch hail. The winds damaged a marina, three travel trailers, and several homes in Henderson. A funnel cloud was spotted east of Henderson by the public at about the same time. Damage was estimated at 25 thousand dollars.
Cherokee Village Community near Hardy - Sharp County	25	8:30 p.			0	1	4	0		Lightning
										A man was slightly injured while listening to stereo headphones when lightning struck his home. His house burned, but he had time to escape. Damage was estimated at 25 thousand dollars.
Salem - Fulton County	26	3:45 p.			0	0	3	0		Wind/Hail
										Thunderstorms produced golf-ball sized hail and wind gusts up to 75 m.p.h. Damage was confined to windows, power lines, and trees.
Near Wycamp or Four Miles West of West Helena - Phillips County	29	2:30 p.	** 100	50	0	0	5	0		Tornado
										A tornado moving northward touched down in a field, and then moved into a small housing subdivision. Five homes sustained damage. Damage was estimated at about 90 thousand dollars.
CALIFORNIA										
NORTHERN										
NO REPORT RECEIVED										
CALIFORNIA										
SOUTHERN										
Inyo County	11									Due to a heavy rainstorm Death Valley had flooding on Route 190. Road was closed from Black Pt. to Furnace Creek to all but 4 wheel vehicles due to mud and debris on the road.
Los Angeles Co.	5									Resident of Pearblossom reported she measured 1.33 inches of rain in 1 hour during a heavy thunderstorm. She also had 12 birds killed by marble size hail.
COLORADO										
Parker (Douglas County)	01	1720	0.5	50	0	0	3	0		Tornado
										Tornado touched down, damaging a house and breaking a powerline pole 5 miles northwest of Parker.
Grand Valley (Mesa County)	01	2045			0	0	3	0		Lightning
										Lightning strike cut off power to 4500 customers in Fruitvale, Pear Park and Clifton for several hours.
Hotchkiss (Mesa Co.)	09	1500			1	2	0	0		Lightning
										Man, aged 17, killed by direct lightning stroke, and two companions stunned, on Rogers Mesa about 6 miles west of Hotchkiss.
Aurora (Arapahoe Co.)	10	1600			1	1	0	0		Lightning
										Two men struck on ground, one killed, one injured.
Akron	14	1400	0.5	50	0	0	?	0		Tornado
										Touchdown in field one mile southwest of Akron.
Front Range and Northeast Foothills	14	1500-1700			0	?	5	0		High winds; dust
										High winds of 70 to 100 mph caused many traffic accidents in the Denver-Boulder area, with many injured. 92 to 101 mph winds were recorded in Boulder, 83 mph west of Ft. Collins.
Northeast Mountains	14	afternoon & evening			0	0	0	0		Blowing, drifting snow
										Snow and icy roads made driving hazardous on mountain passes. Trail Ridge Road was closed by 2 inches of snow. 50 members of a church group were rescued after being stranded at Snowmass Lake near Aspen, where 6 inches of snow fell. Wind gusts of around 100 mph drifted the snow over mountain passes above 8000 feet.
Eagle	17	1843			0	0	?	0		Wind
										Thunderstorm wind gust of 60 mph recorded at airport.
Denver	17	2153			0	0	?	?		Hail
										Hail up to 1.75-inch diameter in Thornton, 10 miles north of Denver. Aircraft also reported hail aloft of 1-inch diameter on takeoff at Denver.
Virginia Dale (Larimer County)	20	afternoon			0	0	4	0		Heavy rain
										A home was flooded by runoff from heavy rain, causing about \$15,000 damage to the building, furniture, and appliances.
Hayden	21	1451			0	0	?	?		Wind gust
										Thunderstorm wind gust to 58 mph recorded at airport.
Pueblo	27	1800			0	0	?	?		Hail
										Golf-ball-size hail fell in the southwest part of the city as a thunderstorm raked the fairgrounds.
Colorado Springs	28	2200			0	0	?	?		Hail, rain
										Hail 8 inches deep, with drifts up to 4 feet, caused many traffic accidents. Local flooding with hail swept several cars down the street. Storm sewers backed up.
Limon	29	0400			0	0	3	0		High winds
										Highway patrol reported 70 to 90 mph winds, which destroyed a barn and hog sheds.
Loveland	29	1900			0	0	5	5		Hail
										Baseball-size hail shattered car windows and damaged roofs west of the city. Golfball-size hail 4 inches deep fell south of the city, and bean, corn and hay crops were destroyed.
Aurora, Denver	31	afternoon			0	0	5	0		Winds, thunderstorm
										Wind gusts tore off roof of an apartment building in Aurora. Window damage reported in Denver, with some trees down.
Grand Junction	31	1400			0	0	4	0		Windsquall
										Trees blown down by sudden wind gust, with one car smashed by trees.
CONNECTICUT										
SEE END OF TABLE										
DELAWARE										
Bowers Beach, Kent County	6				1	0	0	0		Lightning
										A member of a four-man fishing party was struck by lightning as the group was returning to shore during a thunderstorm. Listed in critical condition, he died from the injuries 12 days later. None of the other three were injured.
Port Mahon, Kent County	11	Afternoon			0	0	6	0		Lightning
										Lightning strike set fire to two jet aircraft fuel storage tanks. Estimate loss was over \$500,000.
Felton, Kent County	13	Abt 2:30 a.			0	0	4	0		Lightning
										Extensive damage done to the high school electrical system when lightning struck transformer. Damage was estimated at over \$5,000.

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DELAWARE (continued)											
New Castle County	27				0	0	4	0			Rain
											Heavy rain, beginning on the afternoon of the 27th and continuing into the morning of the 28th, totaled over 5 inches in some areas. Street and basement flooding was prevalent especially over the northern portion of the county. Electrical service was also affected due to flooding of underground cables.
Central and southern portion	31	12:30 a. - 2:30 a.			0	1	3	0			Lightning, rain
											Thunderstorm activity caused rather widespread power outages over Sussex County, mainly due to lightning strikes. Four minor fires were attributed to lightning. At Quakertown, near Lewes, lightning struck a home and inflicted minor injuries on man who was working in the basement. Elsewhere, nearly three inches of rain was reported at Milford.
FLORIDA											
Starke, Bradford County	1	3:00PM EST			0	0	4	0			Wind, rain
											Winds described as "tornado-like" hit a small area 4 miles west of Starke. Witnesses said there was no funnel cloud. A barn and a mobile home was damaged and 30 acres of corn was 90% destroyed. A 24 hour rainfall of 5 inches in Starke caused minor flooding in poorly drained areas.
Jacksonville, Duval County	1	4:30PM EST			0	0	0	0			Funnel aloft
											Two funnel clouds were sighted 5 miles north of Atlantic Boulevard along the Intracoastal Waterway.
Hollywood, Broward County	1	Afternoon			0	2	0	0			Lightning
											Lightning injured 2 men operating a pile driving machine at a construction site. The flash burned one man's eyes; the other suffered a foot burn.
Alachua County	1	6:00 to 8:00PM EST			0	0	4	0			Wind, rain
											Wind gusts to 70 mph knocked out power for 3000 area residents. Heavy thunderstorm rains washed out numerous county dirt roads. The Holiday Inn Motel at U.S. 441 and I-75 was flooded to 6 inches on the ground floor as a 3 to 4 inch downpour soaked the area.
Collier County	2	9:00PM EST			0	0	0	0			Waterspout
											A large waterspout, moving in a westerly direction, was observed 14 miles west of Vanderbilt Beach.
Pinellas County	4	5:15PM EST			0	0	0	0			Funnel aloft
											A funnel cloud was reported over East Bay Drive and U.S. Highway 19.
St. Johns County	5	9:00AM EST			0	0	0	0			Waterspout
											A waterspout was observed over the coastal waters south of St. Augustine moving westward.
Palm Beach County	5	9:33AM EST			0	0	0	0			Waterspout
											A waterspout was reported over the coastal waters of South Palm Beach County.
Lee and Charlotte Counties	5	5:30PM EST			0	0	0	0			Tornado
											A small tornado moving westward dipped down briefly on the Lee and Charlotte County line near the Peace River.
Lee County	5	5:30PM EST			0	0	0	0			Waterspout
											A waterspout was observed near Fort Myers Beach.
Monroe County	5	6:01PM EST			0	0	0	0			Waterspout
											A waterspout was observed 6 miles west of Key West.
Charlotte County	5	6:15PM EST			0	0	0	0			Waterspout
											A waterspout was reported over Charlotte Harbor near Punta Gorda.
Jacksonville, Duval County	6	11:30AM EST			0	0	0	0			Waterspout
											A waterspout formed on the St. Johns River south of the Naval Air Station. It moved north in the St. Johns River and dissipated due east of the Naval Air Station.
Jacksonville, Duval County	6	11:40AM EST	1/10	10	0	0	0	0			Tornado
											The Jacksonville Fire Control office reported a small tornado touched down in southwest Jacksonville a few miles north of the Naval Air Station.
St. Petersburg, Pinellas County	8	3:45PM EST			0	0	0	0			Hail
											Hailstones up to 1 inch in diameter occurred with a heavy thunderstorm in northwest St. Petersburg.

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FLORIDA (continued)											
Duval County	12	4:45PM EST			0	0	0	0			Funnel aloft
											A large thunderstorm produced a brief funnel cloud as it passed over the St. Johns River just east of Blount Island.
Manatee County	13	11:15AM EST			0	0	0	0			Waterspout
											A waterspout was reported offshore from Bradenton.
Manatee County	13	11:15AM EST			0	0	0	0			Waterspout
											A waterspout was reported offshore from Bradenton.
Volusia County	13	1:30PM EST	1/10	20	0	1	4	0			Tornado
											Several mobile homes were damaged and 1 person was slightly injured in a small tornado that touched down briefly south of DeBary. Residents of the Trailer Park reported sighting the tornado as it approached.
Jacksonville, Duval County	14	1:40PM EST			1	1	0	0			Lightning
											A 12-year-old boy was killed and a 69-year-old man injured by lightning that struck while they were installing a fence in West Jacksonville. The boy survived for 14 hours in intensive care in a hospital. The man was briefly unconscious and had minor burns but was not hospitalized.
Tampa, Hillsborough County	15	6:30PM EST			1	0	0	0			Lightning
											A 14-year-old boy, carrying a portable radio with extended antenna, was killed instantly by lightning while running across an open lot. Two companions were knocked to the ground but were uninjured.
Hillsborough County	15	6:30PM EST			0	0	0	0			Waterspout
											A waterspout was observed over Hillsborough Bay.
Tampa, Hillsborough County	15	6:33PM EST			0	0	0	0			Wind
											Gust associated with a thunderstorm reached 58 mph at Tampa International Airport.
Manatee County	17	6:15 EST	1/10	10	0	0	2	0			Tornado
											A small tornado caused minor damage in eastern Manatee County. A funnel cloud was reported in the same area by the Sheriff's office at 6:05PM.
Citrus County	18	4:00PM EST			0	0	0	0			Wind
											A heavy thunderstorm produced wind gusts to 60 mph and pea size hail as it moved northeastward over eastern Citrus County.
Broward County	19	12:05PM EST	1/10	10	0	0	3	0			Tornado
											A wind, described by an eye witness as a "twister", caused minor damage to trees, power lines, and automobiles in a 3 block area of Miramar.
Lake County	19	12:30AM EST			0	0	0	0			Funnel cloud.
											A police officer reported watching a funnel cloud extend to within 100 feet of the ground, then retreat upward after a minute and a half. The funnel was over a citrus grove near Honey-in-the-Hills.
Tampa, Hillsborough County	19	5:55PM EST			0	0	0	0			Waterspout
											A waterspout was reported over Tampa Bay.
Key West, Monroe County	20	4:17PM EST	1/20	10	0	0	4	0			Waterspout-tornado.
											A waterspout came ashore approximately 2 miles east northeast of Key West International Airport. It lifted a 50 foot fiber glass hull and dropped it on a shrimp boat 250 feet away, smashing the superstructure of the shrimp boat. The roof of a seafood company was extensively damaged.
Monroe County	22	10:30AM EST			0	0	0	0			Waterspout
											A waterspout was reported 7 miles north of Key West.
Volusia County	22	1:55PM EST			0	0	0	0			Waterspout
											A waterspout was reported 10 miles southeast of Daytona Beach.
Brevard County	24	8:58AM EST			0	0	0	0			Waterspout
											A waterspout was reported near Melbourne Beach.
Dade County	24	Morning			0	0	4	0			Wind, rain
											Thunderstorm winds measured at 58 MPH overturned a small aircraft at Opa-Locka Airport. Heavy rain caused a 23 car chain reaction pileup on I-95 in northwest Miami.
Lee County	24	1:39PM EST			0	0	0	0			Waterspout
											A waterspout was observed near Pine Island.

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FLORIDA (continued)									
Dade County	28	3:35PM EST			0	0	0	0	Waterspout
		A waterspout was observed just offshore from Surfside.							
Martin County	28	4:49PM EST			0	0	0	0	Waterspout
		A waterspout was reported near Hobe Sound.							
Okaloosa County	30	7:00 to 8:00AM CST			0	0	0	0	Waterspouts
		Okaloosa County Sheriff deputies reported 8 waterspouts over the coastal waters; 6 in Choctawhatchee Bay and 2 in the nearby Gulf of Mexico. The waterspouts were moving shoreward but apparently dissipated before landfall.							
Okaloosa County	30	7:30AM CST			0	0	0	0	Funnel cloud.
		A funnel cloud was reported by Okaloosa Sheriff Department near Florida School in western Okaloosa County. It did not reach the ground and no damage was reported.							
Palm Beach County	30	4:24PM EST			0	0	0	0	Waterspout
		A westward moving waterspout was observed for about 10 minutes a mile or two offshore from Boynton Beach. It dissipated before reaching land.							
Pinellas County	30	7:30PM EST			0	0	0	0	Funnel cloud.
		A funnel cloud was sighted by a deputy sheriff over the southeast corner of Lake Tarpon.							
GEORGIA									
Tybee Island, Chatham County	1	8:05 p	1/2	50	0	1	4	0	Tornado, Waterspout
		A waterspout moved onshore at the U. S. Coast Guard Station. Winds were measured at 75-80 knots for a 30 second period. The only injury of note occurred when a window blew in cutting a woman. Cars, roofs, doors, and trees were damaged.							
Candler County	10	4:00 p			0	0	3	0	Wind
		A thunderstorm damaged roofs and walls in Metter.							
Walton County	17	3:25 p			0	0	3	0	Wind
		Thunderstorm winds downed some trees, damaging a trailer just northeast of Loganville.							
Dodge County	18	4:30 p			0	0	3	0	Wind
		A downed tree from thunderstorm winds damaged a house in Eastman.							
Richmond County	19	6:00 p			0	0	3	0	Wind
		Thunderstorm winds felled trees and damaged power lines in South Augusta.							
Laurens County	20	6:00 p			0	0	4	0	Wind, hail
		A thunderstorm's winds destroyed 3 trailers near Dexter. Golf ball sized hail was also reported.							
Lowndes County	20	6:00 p			0	0	3	0	Wind
		Thunderstorm winds in Valdosta downed dozens of trees, damaging some cars and windows.							
Muscogee County	29	4:00 p					4	0	Wind
		Thunderstorm winds knocked one of the Goodyear "Blimps" off its moorings and damaged it in Augusta.							
Tift County	29	6:00 p					3	0	Wind
		A mobile home was destroyed by thunderstorm winds near Tifton.							
HAWAII									
NE of Kaneohe MCAS, Oahu	8	2:00p-2:04p							Waterspout
IDAHO									
Idaho Falls, Bonneville County	17	9:49 a.			0	0	0	0	Funnel Cloud
		A funnel cloud was observed two miles west of the airport.							
Swan Valley area, Bonneville County	17	12:00 p.			0	0	0	0	Funnel Cloud
		A funnel cloud was sighted by U.S. Forest Service personnel and was confirmed by the Deputy Sheriff from the Clark Rest Area Station on U.S. 26 where rain, strong winds, and hail were reported.							

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	
IDAHO (continued)									
Sandpoint, Bonner County	19	1:50 p.	4	100 to 300	0	1	4	0	Tornado
		Numerous trees were uprooted or broken off, one-half of a house roof torn off, a mobile home damaged, a garage destroyed with the metal roofing carried 4 or 5 blocks, and a few smaller buildings flattened. The roof of a building supply firm was blown off, and metal from the roof severed power lines. Two or three motor vehicles were damaged. A funnel cloud was reported seen; but according to witnesses it was particularly wide, unlike a tornado in that respect. The strong winds were accompanied by frequent lightning, one-half inch hail, and light showers. A man on the golf course was struck by a large tree splinter requiring stitches in his hand.							
Idaho and Lewis Counties	21	8:00 p.			0	0	3	5	Hail, Lightning
		Thunderstorms with hailstones over 3/4 inch in diameter caused heavy damage to crops from the Ferdinand area, Idaho County, through the southeast corner of Lewis County where 2000 acres of crops received damage ranging from 20 to 100 percent. Crops received heavy damage in the Ferdinand area where hail was 3 to 4 inches deep on the ground. There also were reports of damage in the Greencreek area. Lightning struck a utility pole in Lawyer's Canyon, and crews had to replace more than 4000 feet of telephone cable near Ferdinand.							
North Central	12-31				0	0	0	6	Rain
		Occasional heavy rains caused extensive damage to wheat in Kootenai County where 15 to 40 percent of the crops have sprouted in the field. The bluegrass seed crop was also heavily damaged. In Latah and Lewis Counties grain was lodged, test weights were lowered, and some grain sprouted on the stalks. The Idaho Wheat Commission reported sprout damage to wheat already harvested in Idaho, Lewis, Nezperce, Latah, Benewah, Kootenai, and Boundary Counties.							
ILLINOIS									
Southeastern DuPage County	2	About 3:30pm	4.5	870	0	0	0	0	Tornado
		A tornado touched down near the intersection of 83rd Street and Woodward Avenue in southeastern DuPage County. The rotating cloud then moved southeast, passing directly over the Argonne National Laboratory grounds. A short distance southeast of the laboratory, the storm disappeared. The only apparent damage was to tree limbs.							
North Central Mercer County-South Central Rock Island County	15	7:00pm-About 7:15pm	5.0	75	0	0	5	5	Tornado
		A tornado first hit about 1/2 miles southwest of Hamlet, north central Mercer County. It traveled in an east northeasterly direction at about 40 miles an hour, finally disappearing just northeast of Reynolds, south central Rock Island County. The tornado was aloft over much of its track, with occasional touch-downs. Several swaths were cut in cornfields where the funnel cloud dipped down close to the ground. Several property owners reported damage to homes, sheds and trees. Some of the most severe damage came at a residence in Reynolds, Rock Island County, where in addition to the building was completely destroyed.							
Northeastern	15	7:05pm-About 11:25pm			0	1	5	?	Windstorm
		Heavy rains and strong winds hit the northeastern part of the state. Gusts over 50 knots knocked down numerous tree limbs, hit power lines and plunged many homes into darkness. Fences and sheds were smashed. Lightning struck several homes, resulting in many small fires. Some of the most spectacular damage happened at about 8:15pm. A brick wall 175 feet long by 32 feet high at the Bamer Service Company in Des Plaines, Cook County collapsed. The wall fell on 2 vehicles in an adjoining parking lot. A man in the building near where the wall tumbled received knee injuries and was taken to a local hospital.							
Near Huntley, Southeastern McHenry County	15	About 7:45pm	2.0	100	0	0	5	?	Tornado
		A tornado first was observed on the Algonquin-Huntley bladttop between Randall Road and Illinois Highway 47 in southeastern McHenry County. A farm property near the bladttop road was severely damaged. A barn was destroyed along with 5 sheds and a tree limb was smashed into the farmhouse roof. Several large trees were overturned and 2 autos hit by debris as the farm took a beating from the swirling winds. The tornado traveled about 2 miles to the northeast, where it hit a home in the village of Lake In The Hills. The roof of the residence was torn completely off. Portions of the road brought down power lines, cutting off electricity to the village. Many people in the Huntley-Crystal Lake area were without power after the storm hit.							

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 ¹ DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
ILLINOIS (continued)									
Carmi, White County	17	About 2:00pm			0	0	0	?	Hailstorm
		During a thunderstorm, hailstones the size of golf balls were observed.							
Rock Island, Whiteside, Mercer and Henry Counties	18	About 10:00pm-11:00pm			0	0	?	?	Windstorm
		Trees were downed and power lines snapped during heavy thunderstorms, knocking out electrical and telephone service in scattered areas of the 4 counties. Hardest hit were Rock Island City, Moline and East Moline, in Rock Island County. Peak winds at Moline were reported at 59 knots at 10:37pm. The strong gusts turned around a Boeing 727 parked overnight at the Quad Cities Airport in Rock Island County near Moline.							
Extreme Northeastern	19	About Midnight-2:00am			0	0	5	?	Windstorm, Flash Flooding
		Strong winds, numerous lightning strikes and a few reports of heavy rain featured thunderstorms which hit extreme northeastern Illinois. The counties of LaSalle, DeKalb, McHenry, Kane, LaSalle, Kendall, DuPage and Cook were affected. Wind gusts of above 50 knots were observed at DuPage County Airport, Midway Airport and in Palatine, Cook County. The high winds knocked down the east and west walls of a large grocery store under construction in Vernon Hills, Lake County. Rainfall of over 4 inches in a 2 hour period was recorded at Lake Villa in Lake County. At Antioch in Lake County, a lumber company was damaged to the extent of about \$50,000 as the heavy rains caused the flash flooding of Sequoit Creek.							
Princeton, Bureau County	23	About 5:00am			0	0	5	0	Lightning
		Lightning during an early morning thunderstorm set off a fire which destroyed a lumber shed.							
Northwestern	25	About 5:00am-8:00am			0	3	4	?	Windstorm
		A morning thunderstorm slashed through portions of northwestern Illinois, causing minor damage. Numerous lightning strikes started several small fires. In Nauvoo, Hancock County, 3 small children were injured. High winds during a thunderstorm at about 8:00am knocked down a brick chimney at the Nauvoo Grade School. The flying bricks fell, hitting the children.							
Southwestern	25	Afternoon			0	0	4	?	Windstorm
		Numerous power outages resulted as a massive thunderstorm swept through the area, featuring large hail, wind damage and flash flooding in its wake. The counties of Madison, Bond, St. Clair, Clinton and Washington felt the fury of the storm. In Centerville, St. Clair County, high winds damaged power lines along Illinois Highway 157 from Highway 15 to the Illinois Central Railroad. The Cahokia Downs race track in St. Clair County was flooded briefly by heavy rains and windows and roofing over the grandstand were damaged, as gusty winds lashed the area. At about 1:00pm, the storm hit Beckemeyer, Clinton County, bowing power lines, uprooting trees and damaging several buildings.							
Sangamon County	27	About 2:30pm-3:00pm			0	0	5	?	Windstorm
		The greatest damage in this storm was experienced in an area less than a mile wide extending from about 1 mile west of Auburn east northeastward about 4 miles. High winds and heavy rain hit the area during a thunderstorm in the afternoon. A grain elevator near completion was severely twisted by the wind. In the same area, several barns and sheds were also damaged. Several localities in the city of Springfield lost power as the wind gusts downed electrical lines. Crop losses were estimated at 25 per cent in the some affected by the storm, although no dollar value could be placed as yet.							
East Central	27	About 4:00pm-5:00pm			0	1	?	?	Windstorm
		High winds and numerous lightning strikes with a series of thunderstorms hit in the late afternoon. Power outages and heavy rains also accompanied the storms. One injury resulted when a tree fell on a car being driven in Clinton, DeWitt County. Power outages were numerous during the storm. Several fires were started as a result of lightning.							
Westville, Vermilion County	27	About 10:45pm			0	0	5	0	Lightning
		A fire caused by lightning destroyed a tavern.							

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					KILLED	INJURED	PROPERTY	CROPS	
INDIANA									
Bloomington Monroe County	2	5:23 PM	--	--	0	0	0	0	Hail
		Golf-ball size hail was reported on the southern edge of Bloomington.							
Merom Station Sullivan County	2	6:30 PM	--	--	0	0	0	0	Funnel cloud
Salem Washington County	10	Afternoon	--	--	0	0	0	0	"C" Severe thunderstorm with high winds
		High winds destroyed a mobile home three miles west of Salem. Damage estimated at \$6,000. A livestock barn across the road sustained damage to its roof and frame. The Salem Drive-In Theatre also had approximately \$1,500.00 damage.							
Clinton County	11	5:20 PM	--	--	0	0	0	0	Funnel cloud
		Funnel cloud spotted by several law enforcement officers in vicinity of Frankfort.							
Demotte Jasper County	16	1:40 AM	0	0	0	0	3	0	High wind
		High wind downed trees and telephone wire. A shelter house near the airport sustained minor damage.							
Hancock County	17	8:00 PM	--	--	0	0	0	0	Funnel cloud
		Funnel cloud sighted by a Greenfield policeman in the vicinity of County Road 400E and U. S. 40.							
Shelby County	17	11:59 PM	--	--	0	0	0	0	Funnel cloud
		Funnel cloud reported near Pleasantview in north-west Shelby County.							
Friendship Ripley County	18	4:00 AM	--	--	2	0	4	0	Flash flood
		Two to three inches of rain fell from heavy thunderstorms, causing flash flooding in southeastern Indiana. A 9 year old boy and a 26 year old man were killed in a flash flood at Caesars Creek about one mile east of Friendship. One truck and two automobiles were washed downstream.							
Billingsville Union County	19	Afternoon	--	--	0	0	0	0	"C" Severe thunderstorm with high wind
		A mobile home was blown over onto a new automobile. Numerous trees were blown down, damaging several farm buildings and downing power lines. Corn and soybean fields were flattened, but not believed to be too badly damaged. Total damage estimated at \$25,000.							
Anderson Madison County	27	Evening	--	--	0	3	5	0	Heavy rain
		Heavy thunderstorms with three to four inches of rain caused the roof of the Riviera Theatre to collapse in downtown Anderson. Standing water from the torrential rain was blamed for the collapse of the roof. Three persons were injured as more than 100 patrons rushed through the exits. Damage is estimated at \$100,000.							
IOWA									
Sioux City Woodbury County	14	6:30A	--	--	1	0	0	0	Lightning
		A 14 year old boy was struck by lightning while on the roof of his home shingling. His father and sister were also on the roof but were uninjured.							
Jewell Hamilton County	16	3:30A	--	--	0	0	5	4	Hailstorm
		Golfball size hail severely damaged crops, roofs of buildings, crops and windows. Many trees were stripped of their leaves.							
Southeast	18	9-11 P	--	--	0	0	5	3	Severe Thunderstorms High Wind
		A number of severe thunderstorms produced high winds which uprooted trees falling on houses, power lines and cars. These winds also damaged extensively many farm outbuildings and barns.							
Davenport Scott County	24	11:30P	--	--	0	2	0	0	Lightning
		Two men were injured, one critically when struck by lightning while taking cover under a tree.							

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					KILLED	INJURED	PROPERTY	CROPS	
IOWA (continued)									
Des Moines Polk County	26	8:00P	-	-	0	1	0	0	Lightning
A man was injured while putting a cap on the gasoline tank of a customer's car. Lightning struck the car then struck the man hurling him to the pavement.									
KANSAS									
Barber County	1	4:30 p	2-1/2	850			4	4	Wind, Hail
Thunderstorms moving east through the northeast portion of the county produced strong damaging winds, local hail to 1 inch in diameter, and up to 3 inches of rain. Greatest damage was 4 miles north-northeast of Sharon. Wind damage was to farm buildings, trees and power lines. Crop damage was to milo.									
Miami County	1	4:30 p					5	4	Wind, Rain
Heavy rain and strong winds with thunderstorms moving east caused considerable damage in a path 3 to 4 miles wide from near Osawatomie east for about 12 miles. Winds estimated to 85 mph in gusts caused damage to mobile homes, farm homes and buildings, trees and utility lines. Minor crop damage was from heavy rain and wind.									
Nezawa and Shawnee Counties	2	1:20 p							Funnel clouds
Several funnel clouds were reported along a squall line as it moved southeast through northeast Kansas. At 1:20 pm three funnels were reported 3 to 5 miles south of Beneca. At about 8:50 pm a funnel was visible for several minutes just west of Topeka. Although there were gusty winds with the thunderstorms, none of the funnels was known to have touched down.									
Ford County	2	8:00 - 8:40 p	12	*4			5	5	Hail
Strong thunderstorms moving slowly east were accompanied by local hail of 3/4 to 1 inch in diameter with a few hailstones to 2 inches in diameter. Damage was to roofs, trees, and farm buildings over a strip from 4 miles southeast of Kingsdown to 3 miles northeast of Bucklin. Greatest damage was around Bucklin. Crop damage was to mild and corn.									
Norton, Decatur, Ellis Phillips, Sheridan, Graham, Rooks, Trego, and Ness Counties	14	Evening					6	6	Rain, Hail, Wind, Lightning
Thunderstorms accompanied by strong winds, large hail, and local heavy rain moved northeast through these counties. Damage was to mobile homes, roofs, porches, windows, trees and utility lines. Two semi-trailer trucks were blown over near Collyer. Lightning as well as wind caused numerous power outages. Six to eight inches of rain caused some flooding in Graham County. Wind of 60 mph was recorded at Russell and winds were estimated 80 to 100 mph in Rooks County. Hail to 1-3/4 inches in diameter fell near Hill City.									
Crawford County	15	7:15 a			0	1			Lightning
Lightning followed a propane gas line into a scale house at a mine west of Cherokee. A man with his arm on a stove was knocked down but received only minor burns and bruises. A witness said he saw a ball of fire come from the man's chest.									
Jewell, Republic, Washington, Mitchell, Cloud, and Osborne Counties	16 17	8:00 p to 1:00 a					5	?	Wind, Hail
Strong thunderstorms moving east-northeast through these counties produced strong gusty winds and hail locally of 1/2 to 1-3/4 inches in diameter. Damage was to utility lines, roofs, and trees.									
Coffey, Osage, Shawnee, Doniphan, Johnson, Franklin, and Jefferson Counties	26	3:45 to 5:30 p					6	?	Wind, Lightning
Rapidly developing thunderstorms moved northeast with local areas of damaging winds. Wind gusts were estimated over 75 mph in Topeka and over 85 mph in Johnson County. Damage was reported to roofs and mobile homes. Automobiles, houses, and utility lines suffered damage from falling trees and tree limbs. Two aircraft were destroyed and another damaged at Forbes Field near Topeka. Several fires were started by lightning with the greatest losses in Johnson County where a home was destroyed and a barn with horses and equipment was lost. A large home Lakewood Hills was destroyed. Local wind and lightning damage was reported over northeast Kansas east of a line from Burlington to Topeka to Troy.									
Montgomery, Labette, and Crawford Counties	26 27	7:00 p to 1:00 a					5	0	Wind
Strong thunderstorms moved east through southeast Kansas with gusty damaging winds. Damage was to farm buildings, barns, trees, and utility lines. One storm near Girard was thought to have been a tornado although this could not be confirmed.									

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					KILLED	INJURED	PROPERTY	CROPS	
KANSAS (continued)									
<u>SPECIAL HAIL SUMMARY</u>									
Hail loss clearing house reports indicate hail was especially severe on the following dates, and in the following counties:									
	14								Thomas, Sheridan, Graham
	16								Republic
	17								Republic
KENTUCKY									
Hopkins Cy	10	7:40 pm CDT						5	TSTM
Lightning caused one of the worst fires in the history of Dawson Springs. The lumber mill owned by Terry Bros. Lumber Co., Inc. burned to the ground during a severe thunderstorm.									
Powell Cy	30	5:20 pm EDT	4-5	800	0	0	4	4	TORNADO
A tornado touched down on upper Hardwick Road 5 mi. east of Clay City and moved east for about 5 miles thru a lightly populated area. Two large well constructed barns were destroyed.									
LOUISIANA									
Coastal Waters	7	2:10 PM							Waterspouts
3 waterspouts reported about 45 miles south of Point Au Fer.									
Northern Parishes	11	Afternoon & Evening			0	0	4	4	Severe Thunderstorms
Widespread, but mostly minor damage occurred as thunderstorms moved across the area. Hail destroyed crops in the Bastrop area along Hamburg Road. Trees were uprooted in Ruston. Jena lost trees and power lines in winds estimated at 60-70 mph.									
Madison Parish	13	Afternoon			0	0	3	0	Severe Thunderstorms
Marble to quarter size hail and heavy rain with strong winds caused damage in Tallulah and other points in northeast LA.									
St. Bernard Parish	17	3:00 PM			0	0	4	0	Severe Thunderstorm
High winds and heavy rain caused damage to roofs, trees, power lines in Chalmette; also caused some street flooding and several auto accidents.									
Southern Parishes	20	Afternoon			0	0	4	4	Severe Thunderstorms
A line of thunderstorms caused heavy rains, high winds and hail at several places. Lightning set fire to a house in Eltbn. Jefferson Davis Parish, about 2:30 PM. Hammond, Tangipahoa Parish, had trees and power lines down around 3:30 PM. Hail 1/4 to 1 inch fell in Metairie, Jefferson Parish at 4:30 PM and streets were flooded up to 4 feet in a few spots. Winds over 50 mph broke 4 plate glass windows in a large grocery; damaged roofs and trees and knocked out power for nearly 5000 customers. Wind damage also occurred in the City Park area of New Orleans.									
Northern and Central Parishes	20	Evening			0	0	4	0	Severe Thunderstorms
Widespread, mostly minor, damage occurred as heavy rain, wind and hail cut across Bienville Parish between Casko and Lucky then later knocked out power lines and trees in Grant, Rapides, LaSalle and Catahoula Parishes.									
Jefferson Parish	22	5:00 PM			0	1	4	0	Severe Thunderstorm
High winds toppled a block wall on a building, knocked out power lines to over 10,000 customers and toppled trees in Metairie. Over 4 inches of rain caused some minor flooding. A 6-year old boy was seriously injured by a lightning bolt near his home.									
Lake Pontchartrain	28	1:33 PM			0	0	0	0	Waterspout
Waterspout reported north of Molsant in western part of Lake Pontchartrain.									

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					KILLED	INJURED	PROPERTY	CROPS	
LOUISIANA (continued)									
Entire State	28-29				1	4	5	4	Tropical Storm Debra
									<p>Tropical Storm Debra moved into southwestern Cameron Parish between 7 and 8 PM August 28, then moved north-northeast through Louisiana and into southern Arkansas by early afternoon August 29.</p> <p>Effects were generally limited. Some 5000 residents of Cameron and Vermilion Parishes and about 1800 workers from off-shore oil rigs and platforms moved to safer locations. Coastal flooding was minimal since storm tides were only 4-6 feet MSL near and east of the storm track. Some inland flooding occurred due to 3" to 6" rains over much of the state. Heaviest recorded amount was 9.60" at Freshwater Bayou in Vermilion Parish.</p> <p>Wind effects were mostly confined to power line and tree damage. Highest winds recorded were 66 mph at Rockefeller Wildlife Refuge and an unofficial 80 mph gust at Grand Cheniere, both in Cameron Parish. A large metal building in Barahan, Jefferson Parish, lost its roof. A large building under construction in Baton Rouge was knocked down. Of the several tornadoes reported around the state only one could be confirmed. Near DeRidder, Beauregard Parish, a mobile home was picked off the ground and the roof exploded even though the home was tied down. Occupants said there was a sudden loud noise like a train before the roof disappeared.</p> <p>There was one death due to drowning. A worker was washed off an oil rig south of Cameron. Three workers were injured during evacuation and transferred to hospitals. A driver was injured by a falling tree limb that had been struck by lightning near Lecolpote, Rapides Parish.</p>
MAINE									
					NONE REPORTED				
MARYLAND & D.C.									
Baltimore (City) & Anne Arundel County	4	5:00 p.-8:00 p.			0	0	4	4	Rain, Wind, Lightning
									<p>Locally heavy rainfall in a short time caused some street flooding and flooded basements, particularly in southern sections of Baltimore. In the Annapolis area, several homes were hit by lightning, causing damage. Farmers in southern Anne Arundel County reported some wind damage to tobacco crops.</p>
Allegany County	4	6:30 p.-10:00 p.			0	0	3	0	Rain
									<p>Over four inches of rain was reported by the Cumberland observer. This he considered was the most that he recorded in such a short period of time. Considerable basement flooding occurred in Cumberland and nearby areas. It was reported that some road had standing water 8 to 10 inches deep.</p>
Ocean City	6	All Day			0	0	3	0	Rain, Lightning
									<p>Heavy rains stranded several automobiles as water reached depths to about 18 inches in some streets. Lightning caused minor damage to one apartment-house and a mobile home.</p>
Allegany County	6	3:00 p.			0	0	4	0	Rain
									<p>Sudden "cloudburst" resulted in a flash flood, blocking roads with mud and debris in the Lavoisier-Freestburg area. Many basements were also flooded.</p>
Chesapeake Bay	6	3:00 p.			0	1	2	0	Lightning
									<p>Lightning strike a sailboat which was traveling between Annapolis and St. Michaels. The man who was steering sustained a charge of electricity which had passed through the metal tiller. He was treated for numbness and a black and blue arm. None of the other three passengers was affected. Only minor damage was done to the sailboat.</p>
Bel Air, Harford County	7	Evening			0	0	1	0	Lightning
									<p>Lightning traveled down a tree and struck auto antenna, melting it.</p>
Derwood, Montgomery County	8	Early Morning			0	0	3	0	Lightning
									<p>Lightning struck a tree and toppled it onto power lines, causing a chain reaction in which nearby lines and poles also fell.</p>
Frederick (nr)	9	8:00 p.			0	0	4	0	Lightning
									<p>A barn filled with 1,500 bales of hay was totally destroyed by a lightning-caused fire. Estimated loss was \$30,000.</p>

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	
MARYLAND & D.C. (continued)									
Loch Raven Reservoir, Baltimore County	11	6:00 p.	0.3	50	0	0	3	0	Tornado
									<p>A small tornado, moving from southwest to northeast, touched down in the Loch Raven Reservoir watershed near the intersection of Dulaney Valley and Loch Raven Roads, cutting a path through a grove of towering pine trees. An estimated 400 trees, ranging up to two feet, were either pulled up by the roots or twisted off. One person was reported to have seen the funnel. Very heavy rainfall was also occurring at the time. Damage was estimated at \$4,000.</p>
Baltimore and Harford Counties & Baltimore (City)	11	8:00 p.-11:00 p.			0	0	4	0	Rain, Lightning, Wind
									<p>Violent thunderstorms caused localized flooding, stranded motorists and power interruption for over 10,000 households. Baltimore County reported washouts on seven roads. Damage was estimated at \$50,000.</p>
Baltimore and Harford Counties	27-28				0	0	5	0	Rain, Flash Flood
									<p>Up to five inches of rain during the period from 5:00PM of the 27th to 5:00AM of the 28th resulted in widespread flooding. One homeowner in Perry Hall reported \$10,000 damage to her home by water. Nearby, a 12-foot wall of water slammed into a volunteer fire department station, causing damage estimated at \$25,000. Damage to the paving on a parking lot in Fallston was estimated at \$30,000. Many motorists were stranded along highways. Some 40 cars were abandoned on Route 40 near Joppatowne. Some low-lying stretches were flooded to depths of three feet or more. Total damage was estimated at \$150,000.</p>
Carroll County	28	3:30 p.			0	0	4	3	Wind, hail
									<p>A thunderstorm with strong winds and hail moved northeast portion of the county. One home reported trees down, some property damage and a corn field flattened. Near Linboro, wind destroyed a barn, killing a cow. Hail damage was estimated at \$2500; total storm damage was estimated at \$25,000.</p>
Talbot and Queen Anne's Counties	30-31				0	0	4	0	Wind, Lightning
									<p>High winds knocked down trees and power lines over the area from late on the 30th to early on the 31st. Homeowner near Easton reported lightning blew up water pump, television set and radar-range, besides doing damage to the home's electrical system.</p>
Patuxent River	31	3:30 p.			2	1	0	0	Lightning
									<p>During a severe thunderstorm, a bolt of lightning struck and instantly killed two youths in a 15-foot fiberglass boat off Point Patience (near Solomons, Calvert County). Third youth was treated for minor electrical shock at nearby Patuxent Naval Air Station Hospital and released.</p>
Hagerstown	31				0	0	3	0	Lightning
									<p>Lightning-caused fire caused some damage to a section of the attic of a home. Damage was estimated at \$4,000.</p>
MASSACHUSETTS									
			SEE END OF TABLE						
MICHIGAN									
Tecumseh, Lenawee	7	Afternoon			0	0	4		Flash Flood
									<p>2.5 inches of rain fell in a 30 minute period flooding streets in the downtown area. Many shops sustained water damage with one reporting water ankle deep in the store isles. Most of the damage was to carpets and clothing.</p>
State Wide	15-16	Evening & Early Morning			0	3	6	0	Thunderstorms
									<p>A line of severe thunderstorms moved through the area felling trees and knocking out power for thousands of homes and businesses. Two buildings under construction collapsed one in Tecumseh, and the other in Shelby. Thousands of fruit trees on the west side of the state were destroyed. A tree demolished a house and injured the woman living there in Bangor. A trailer overturned in Leslie injuring both owners. Winds blew part of the roof off a home in Lake Isabella, a school in Stockbridge and a gas station in Vassar. Windpne were blown out of homes in Ledington and a car dealership in Buchanan. Lightning started fires destroyed a restaurant in Lehigh, an ice cream establishment in Grand Rapids, a trailer in Hblland, a home in Berrien Springs, a barn in Gaylord, and a church steeple in Cascade. Hastings, Rutland, South Haven, Harbor Springs, and Alanson also hard hit.</p> <p>Tornado reports listed below are part of these storms.</p>
SW Iron River, Iron	15	3:00 pm	1/4	50	0	2	4		Tornado
									<p>Touch down at the north end of Hagerman Lake destroying one garage, two outhouses and uprooting several trees. The two injuries occurred to an elderly couple which were standing in the garage at the time it exploded.</p>

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					KILLED	INJURED	PROPERTY	CROPS	
MICHIGAN (continued)									
Interlochen, Grand Traverse	15	Evening			0	0			Funnel Cloud
First sighted at Interlochen moving east. It dissipated into the clouds east of Grand Traverse after being sighted by the public there.									
8 NW Shelby, Oceana	15	11:05 pm	3/4	335	0	1	5		Waterspout-Tornado
Came in off Lake Michigan destroying two cottages and a trailer and damaging two other cottages. It traveled inland about 3/4 mile blocking Scenic Drive with felled trees. The injury occurred to a man that was hit by a 12 foot picture window. Several catamaran sail boats off the beach south of the cottages were also destroyed.									
6 N Muskegon, Muskegon	15	Around Midnight							Funnel Cloud
Sighted by the public near Russel Road and U.S. 31.									
1 1/2 S. Leland, to 1 NNE of Suttons Bay, Leelanau	16	12:20 am	7	160	0	0	5		Tornado
Touched down on M-22 south of Leland and skipped ENE damaging 4 homes and 2 mobile homes, and blocking roads with felled trees. Most of the damaged homes were on Dumas Road. Many small boats on Lake Leelanau broke loose from their moorings with several sail boats capsizing.									
Hesperia, Oceana	16	12:25 am							Funnel Cloud
Sighted over Hesperia.									
3 ENE Kerns Corner, Kalkaska	16	12:40 am			0	0			Funnel Cloud
Sighted by Kalkaska County Sheriffs deputies while traveling along Michigan Highway 72.									
1 1/2 NW Alverno, Cheboygan	16	1:03 am	1 1/2	60	0	0	4	C	Tornado
Touched down west of South River Road, destroying a large barn, damaging a house trailer and a garage. It then moved northeast ripping up an apple orchard before crossing the Black River. East of the Black River on Mogaish road it destroyed another barn and drove boards through the walls of other outbuildings. A woman in the house trailer reported being sucked out of bed and thrown on the floor, but was not injured.									
3 SW Hulbert, Chippewa	16	1:06 am	1/2	25	0	0	5		Tornado
Touched down briefly in an open field destroying a mobile home, two outbuildings, and an old log cabin. Several one to two foot diameter poplars were snapped off or uprooted.									
3 NE Kalamazoo, Kalamazoo	16	1:30 am							Funnel Cloud
Sighted by the public at the intersection of Sprinkle and Gull and again at 46th and 6th ave.									
Kalamazoo, Kalamazoo	16	1:30 am	1 1/2	350	0	1	5		Tornado
Touched down briefly on Kilgore Road then moved northeast across south Westnedge ave. breaking windows, felling trees, and damaging three motor homes before lifting. The injury was to a young girl hit in the face by flying glass while sleeping.									
1 S Kalamazoo, Kalamazoo	16	1:30 am			0	0			Funnel Cloud
Sighted numerous times by the public as it passed over Portage and southern suburbs of Kalamazoo.									
1/2 S. Hesperia, Newaygo	16	Early Morning			0	0			Funnel Cloud
Sighted twice by the public and confirmed by the State Police.									
2 NNE Hoxeyville, Wexford	16	Early Morning							Funnel Cloud
Sighted at the intersection of Caberfae Rd. and M-55.									
1 WSW Dalton, Muskegon	16	Morning							Funnel Cloud
Reported by the public.									
3 S Wolflake, Lake Jennings, Missaukee	16	Morning			0	0			Hail
Hailstones the size of silver dollars pelted the area.									
Jennings, Missaukee	16	Morning			0	0			Funnel Cloud
Sighted by the public.									
An area south of Traverse City and Alpena.	18-19	Evening Morning & Afternoon			0	6	6	C	Thunderstorms
Several waves of severe thunderstorms moved through the area felling trees on homes and cars, and disrupting power to 30,000 homes and businesses. Exceptionally heavy damage was done to the Gun Lake area of Barry County, the South Haven area, the Middleville, Paledonia and Lowell areas. As well as the Lapeer area and the northeast side of Flint where over 400 trees were felled. Three of the injuries occurred with owners of a home attempted to close windows but the windows shattered before they could succeed. One man was hit by a plate glass window at Gun Lake. A couple in Lapeer were hit by flying pieces of plaster from their damaged home. Two landmark churches one in Bay City and the other in Mount Pleasant were struck and set afire by lightning. Lightning caused fires also destroyed 3 homes, and two barns.									
Tornado, Flash Flood and Lightning reports listed below are part of these storms.									
MICHIGAN (continued)									
Northern and Southern Muskegon, & Newaygo	19	Early Morning			0	0	5		Flash Floods
4 to 9 inch rains in two hours here but huge gullies and washed out numerous roads in the area. A van was reported floating down a street in Whitehall at the height of the storm, and over two hundred feet of one road was washed away. Water up to the top of a pickup truck flooded but homes and businesses. Hardest hit were Montague, Whitehall, and the Twin Lakes area.									
2 NW Perry, Shiawassee	19	4:40 am	2	235	0	8	5		Tornado
Touched down on the west side of town in the 4600 block of Britton road and moved ESE heavily damaging 6 blocks of downtown Perry. 7 mobile homes were destroyed and 49 others damaged. Two business buildings lost roofs while most homes lost siding and TV antennas. Trees, and power lines littered the streets throughout the area. It lifted just east of Willow street. All the injuries were to those living in the mobile homes on the NW side of town.									
Dodgeville, Houghton	19	4:30 am			0	0	2		Hail
Golfball sized hailstones pelted the area doing slight damage to vehicles.									
1 S Ewart, Osceola	19	9:30 am			0	0	UNK		Hail
Three quarter inch hail reported.									
1 1/2 SE Fair Haven, St. Clair	19	2:15 pm	1/2	100	0	0	4		Waterspout-Tornado
Touched down on Anchor Bay and came ashore. It then moved east across Dyke road forcing a car off the road and damaging a restaurant, a boat, a bar, and a mobile home. At least 5 people including the restaurant owner and owner of the car saw the tornado touch down on Anchor Bay.									
Utica, Macomb	19	Afternoon			0	7			Lightning
Struck a tree in which several groups of people were picnicking under. 4 persons needed treatment for burns. The other three were hit by burning pieces of falling tree.									
3 1/2 SSE Vandalia, Cass	27	3:20 pm	1	75	0	0	4		Tornado
Touched down briefly along Chain Lake street destroying two trailers, a chrn crib, and felling 30 trees. A home also had the siding torn off two sides. One resident witnessed the touch down.									
Jones, Cass	27	3:00 pm			0	1			Lightning
A 42 year old man was sitting on a metal chair near the open door of his garage. He was knocked from the chair and suffered a burn on his leg.									
MINNESOTA									
SEE END OF TABLE									
MISSISSIPPI									
Jackson County	4	12:30 p			0	0	4	0	Lightning, wind
A thunderstorm dropped nearly two inches of rain on Pascagoula in a short period of time. Lightning struck two houses, setting them on fire. One was heavily damaged. High winds blew over utility sheds, broke some windows and knocked tree limbs onto power lines. A few homes suffered minor wind damage.									
Attala County	12	afternoon			0	1	0	0	Lightning
A woman was injured slightly when lightning apparently hit a power line leading into her house. She was cooking at the kitchen stove and was knocked unconscious. She was hospitalized overnight and released.									
Walsh County	13	evening			0	1	0	0	Lightning
A 19 year old girl of Lexie Community was struck by lightning on the chin as she talked on the telephone. She was hospitalized overnight and released.									
Copiah and Hinds Counties	29	6:30 a	21	100	1	2	5	5	Tornado and other high winds
High winds, several small funnels aloft and heavy rain accompanied tropical storm Debra. Mississippi was in the eastern side of this storm as it moved northward. A tornado touched the ground in the Turkey Creek Community 3 miles west of Crystal Springs. Mobile homes and some houses were damaged, a few destroyed. One woman was killed and another seriously injured when the high winds struck their mobile home, which was a total loss. The tornado apparently lifted off the ground but touched down again at about U.M. south of Clinton, which is a few miles west of Jackson. It damaged a small home severely and a man in the home was injured, but not badly. He was treated at a hospital and released.									
High winds also did considerable damage to timber in the two counties. There reports of isolated tree damage and resulting power outages in several other counties. One of two buildings were damaged at a small college in Jackson at the southern edge of Copiah County. One lost most of it's roof and the interior suffered considerable water damage from the heavy rain.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1978

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
MISSOURI									
Chillicothe, Livingston County	2	1 am	?	?	0	0	4	0	Flash Flood
More than two inches of rain in a one-hour period caused flooding of the Parkview Heights city housing area when surface water from higher surrounding ground swept down on the low-lying apartments. Ten persons were evacuated by boat from four duplexes. Extensive damage was reported to the duplexes and to their contents when water rose as high as knee-deep in the units. Chillicothe received a total of 3.98 inches in that storm.									
Line from Sedalia, Pettis County to Jefferson City, Cole County	11	1-3 pm	?	?	0	1	4	0	Wind
High winds in a thunderstorm downed trees and power lines and damaged out-buildings. About six miles south of Syracuse, Morgan County, a trailer was turned over. Half of a large tent at the State Fairgrounds in Sedalia was toppled when winds ripped the canvas and snapped several support poles. A nearby barn-like building collapsed on a Pontiac, smashing its roof and all the windows. Kent Thomas, 15, was treated and released for cuts to his right forearm when a glass door was blown in, showering him with flying glass while he was working at the Taco Grande in Sedalia.									
Portion of Southwest	11	7-8 pm	?	?	0	0	4	0	Severe Thunderstorms
High winds in thunderstorms took their usual toll of trees and power lines. In addition, in El Dorado Springs, Cedar County, a redwood drive-in movie screen was torn apart and the roof torn off a new wing of the Cedar County Memorial Hospital. Lightning hit a transformer outside Laman, Barton County, and struck a house in Lebanon, Laclede County, starting a fire which did an estimated \$20,000 in damage.									
Southeast Shelby County	15	5-7 pm	?	?	0	0	4	0	Wind
Winds in a thunderstorm left a path of destruction from about five miles southeast of Shelbina through the south side of Hunnewell. Two large hay barns were heavily damaged, and numerous other farm buildings were destroyed or damaged. One mobile home was demolished and another was moved three feet off its foundation and twisted against a utility pole. Several garages were flattened and a camper demolished. Trees, tree limbs, and power lines were downed.									
Morgan County	25	10 am	?	?	0	0	3	0	Wind
A heavy thunderstorm with strong winds left a trail of damaged trees on the Coombs Ranch south of Stover. William Coombs estimated that 150 to 200 large trees had either been broken or pulled out of the ground. Most of the damaged trees were broken off 15 feet above ground.									
Perryville, Perry County	25	arn'd 2 pm	?	?	0	1	2	0	Wind
20-year-old Sara Ann Wingerter escaped serious injury when a huge tree limb crashed through the front windshield of her car during a heavy thunderstorm. She received out-patient treatment at the Memorial Hospital for lacerations of the head and bruises and abrasions of the right shoulder.									
Warrenton, Warren County	25	aftn.	?	?	0	0	3	0	Lightning
Lightning struck a house, starting a fire which destroyed much of the contents of the home. Firemen were able to control the flames before the house was destroyed.									
Thomasville, Oregon County	25	eve.	?	?	0	0	3	0	Hail
A thunderstorm dropped hail as large as golf-balls breaking windows and damaging gardens and roofing on some houses.									
Sullivan, Franklin County	26	aftn.	?	?	0	0	3	0	Wind
High winds in a thunderstorm downed a power pole and transformer, ripped storage sheds off their foundations and tore antennas from roofs. In addition, trees and power lines were downed.									
Jackson County	26	arn'd 6 pm	?	?	0	0	4	0	Severe Thunderstorm
Damage to a house was estimated at approximately \$15,000 when lightning started a fire which snoldered all night and became a full blaze the next morning. At McComas-Lee's Summit Airport, four airplanes were blown over by the wind which was clocked at 65 mph by airport officials. The planes, restrained by tie-downs, were bent and damaged. One plane received severe damage when the wind caused its landing gear to break. The plane was blown around and received damage to its wings. Trees and power lines were downed.									
Raytown, Jackson County	27	2:15 am	?	?	0	0	4	0	Lightning
Lightning struck a house and caused \$30,000 in damage when firemen were hampered by a lack of a nearby fire hydrant.									
MONTANA									
Cascade, Glacier, Teton, Toole	22	Afternoon	?	?	0	0	5	6	Hail, Wind
One to two inch diameter hail accompanied by winds up to 75 miles per hour did extensive damage to mature crops and damaged homes.									
Meagher	22	Afternoon	?	?	0	0	0	0	Tornado
A tornado was sighted by the public near Martinsdale.									
Wheatland	22	Afternoon	?	?	0	0	0	0	Tornado
A tornado was sighted by the public near Twodot.									
NEBRASKA									
Cherry County	1	4:25 PM	?	?	0	0	3	0	Damaging Winds
Strong winds in thunderstorms damaged small outbuildings 3 miles northwest of Merriman.									
Cherry County	1	4:40 PM	?	?	0	0	0	0	Funnel Cloud
A funnel cloud was sighted 5 miles southeast of Merriman.									
Cherry County	1	5:30 PM -7:00 PM	?	?	0	0	5	6	Damaging Winds and Hail
Winds to 100 m.p.h. and hail upward to 1 and three quarters inches drifting to depths of 10 inches ravaged an area about 8 miles wide from 14 miles southwest of Cody to 27 miles southwest of Valentine. Ranchers reported broken windows, damaged irrigation systems, damaged homes and 80 to 100 percent hay and crop loss.									
Thayer County	2	2:30 AM	?	?	0	0	4	0	Damaging Winds
Strong winds in thunderstorms collapsed a barn and destroyed two sheds on a farm near Byron.									
Red Willow County	8	3:20 PM	?	?	0	0	2	0	Damaging Winds
Winds gusting to around 60 m.p.h. in a thunderstorm caused minor damage near MoCook.									
Douglas County	9	7:20 PM	?	?	0	0	3	0	Damaging Winds
Gusty winds in thunderstorms downed a number of power lines in the Omaha area.									
Cherry County	10	7:00 PM	?	?	0	0	3	0	Damaging Winds
Thunderstorm wind gusts to 70 m.p.h. caused minor property damage around Kilgore.									
Dawes County	13	6:20 PM	?	?	0	0	2	0	Damaging Winds
Winds gusted to 55 m.p.h. in a thunderstorm at Chadron causing minor damage.									
Sheyman, Howard, Dawson, Buffalo, Phelps, Kearney, Maxian, and Franklin Counties	14	1:10 PM -2:45 PM	?	?	0	1	6	6	Damaging Winds and Hail
Winds gusting 65 to 70 m.p.h. and hail to one and three quarters inches downed trees and utility lines along with damaging crops and some buildings. Hail hit hardest around Holdrege and in a strip from north of Overton to south of Amherst. Winds blew down a number of small outbuildings and barns around Alma and Republican. One boy was injured at Alma.									
Holt, Antelope, and Wheeler Counties	14	2:00 PM -2:40 PM	?	?	0	0	3	5	Hail and Damaging Winds
Strong winds and hail to one and three quarters inches in thunderstorms damaged crops and downed trees. Most hail damage around Clearwater. Windows were broken at Ewing.									
Cheyenne County	14	2:45 PM	?	?	0	0	3	0	Lightning
Lightning struck and damaged the Sidney Fire Department communications system.									
Scottsbluff, Banner, and Morrill Counties	14	3:00 PM -3:45 PM	?	?	0	0	3	6	Damaging Winds and Hail
Winds gusting to near 70 m.p.h. along with hail to one inch hail downed trees and utility lines and damaged crops. Most wind damage occurred around Scottsbluff and Gering where windows were broken. Hail had its worst effect in the Bridgeport Broadwater area.									
Nance, Merrick, Polk, Hall, Hamilton, Adams and Clay Counties	14	3:00 PM	?	?	0	0	5	4	Damaging Winds
Line of thunderstorms produced wind gusts of 60 to 70 m.p.h. which downed trees and damaged utility lines. Grain bins were blown down at Silver Creek and a roof was blown off a barn south of town.									
Adams County	14	3:10 PM	?	?	0	0	0	0	Funnel Cloud
A funnel cloud was sighted south of Junkata.									
Keith County	14	4:40 PM -5:15 PM	?	?	0	0	5	3	Damaging Winds
Winds gusting 70 to 80 m.p.h. overturned and damaged three mobile homes, a light plane and a number of boats at Lake McCaughy.									

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					KILLED	INJURED	PROPERTY	CROPS	
NEBRASKA (continued)									
Hooker, Thomas, Blaine, McPherson, Lincoln and Logan Counties	14	5:30 PM - 7:00 PM			0	0	4	3	Damaging Winds and Hail
Winds in thunderstorms gusting 70 to 80 m.p.h. and half inch hail caused crop and property damage. A barn was blown down west of Stapleton.									
Dodge, Saunders, Washington and Douglas Counties	14	6:00 PM - 6:45 PM			0	0	3	2	Damaging Winds
Line of thunderstorms produced wind gusts to 60 m.p.h. which downed a number of trees and utility lines around Omaha and Fremont.									
Sarpy County	14	6:45 PM			1	0	0	0	Lightning
Lightning struck and killed a young child at Elbow Bend.									
Frontier County	14	7:20 PM			0	0	0	0	Funnel Cloud
A funnel cloud was sighted 3 miles south of Maywood.									
Boone County	14	8:45 PM			0	0	3	0	Lightning
Lightning struck and set fire to a barn 5 miles northeast of Albion destroying roof and killing a number of hogs.									
Thayer County	16	9:00 PM			0	0	2	0	Damaging Winds
Fifty to sixty m.p.h. wind gusts in thunderstorms caused minor property damage around Chester.									
Greeley County	17	5:00 PM			0	0	0	3	Lightning
Lightning started a grass fire which destroyed about 7 acres.									
Saline, Thayer, and Jefferson Counties	17	9:35 PM - 10:30 PM			0	0	2	5	Hail
One and three quarters inch hail fell around Gilead and Western damaging crops.									
Hitchcock and Red Willow Counties	20	6:30 PM			0	0	3	6	Damaging Winds and Hail
Winds to 50 m.p.h. and three quarter inch hail damaged crops severely in a 3 mile path from 4 miles east of Gilbertson and 4 miles west of McCook.									
Holt County	23	Evening			0	0	0	2	Lightning
Lightning started a small grass fire north of Atkinson.									
Nemaha County	24	Morning			0	0	3	0	Lightning
Lightning split a tree causing a large branch to fall and damage a roof of a home.									
Thayer County	26	3:00 PM			0	0	4	0	Lightning
Lightning was the cause of death for 12 head of cattle on a farm east of Belvidere when it struck a tree near where they were gathered.									
Otoe, Johnson, Nemaha, Pawnee and Richardson Counties	26	3:15 PM - 4:15 PM			0	0	5	6	Damaging Winds and Hail
Sixty to seventy m.p.h. winds and hail downed trees and utility lines and damaged crops, barns, outbuildings and equipment on farmsteads. Most extensive farm damage was to 5 farms north of Barchard. A roof was torn from a building in Falls City and windows broken at Nebraska City.									
Sarpy and Cass Counties	27	Early Morning			0	0	2	0	Damaging Winds
Strong winds blew down a livestock shed north of Dshler.									
Gage County	27	5:45 AM			0	0	3	0	Lightning.
Fire started by lightning heavily damaged basement of a drug store in Beatrice.									
Dawes and Sheridan Counties	27	5:10 PM - 7:15 PM			0	0	5	4	Damaging Winds and Hail
Hail one and three quarters inches to 3 inches in diameter in thunderstorms along with 50 m.p.h. winds damaged auto windshields, broke windows and damaged roofs, crops and pastures. The path was from Chadron, Hay Springs, and east of Rushville.									
NEBRASKA (continued)									
Cherry County	27	7:45 PM			0	0	0	3	Hail
One and three quarter inch hail fell east of Borden causing some crop and pasture damage.									
Kimball County	31	12:25 PM			0	0	0	0	Funnel Cloud
Funnel cloud was sighted 10 miles north of Basmell.									
Banner County	31	12:40 PM - 1:40 PM	22	1/4	0	0	0	3	Tornado
Tornado touched down at intervals from 2 miles west of Harrisburg east-northeast to 8 miles southwest of Bayard. Path was in open country and little or no damage resulted.									
Kimball, Banner, Morrill and Cheyenne Counties	31	1:30 PM - 2:15 PM	20	1/4	0	0	0	3	Tornado
Tornado touched down intermittently from 15 miles northwest of Dix east-northeast to 13 miles south-southwest of Bridgeport. Little damage resulted as path was in open country.									
Morrill County	31	3:00 PM			0	0	0	0	Funnel Cloud
Funnel cloud was reported in southwest Morrill County.									
NEVADA									
Lake Head	12	UNK						4	Thunderstorm
Local flooding - minor property damage.									
Pioche	12	UNK						3	Thunderstorm
Local flooding - little damage.									
NEW HAMPSHIRE									
NONE REPORTED									
NEW JERSEY									
SEE END OF TABLE									
NEW MEXICO									
2.5 Miles Northeast of Thoreau, McKinley County	12	Afternoon			0	0	3	0	Flash Flood
Rumpff from locally heavy rain washed out 8-foot culvert and cut highway.									
Headquarters Area, White Sands Missile Range, Dona Ana County	19	Evening			5	1	6	0	Heavy Rain, Flash Flood
Up to 10 inches of rain on east slope of Organ Mountains flooded arroyos in Headquarters area. Five deaths and one injury from automobile occupants swept from road by floodwaters. Extensive damage to buildings and to much sophisticated electronic equipment including computers.									
NEW YORK									
COASTAL									
SEE END OF TABLE									
NEW YORK									
CENTRAL									
ULSTER, DUTCHESS ORANGE, AND SULLIVAN COUNTIES	7	9:30 P-11P	1	15	0	0	4	0	MINI-TORNADO
DURING THUNDERSTORMS IN THE AREA, A MINI TORNADO STRUCK PART OF POUCHKEESIE AND LAGRANGE IN DUTCHESS COUNTY CAUSING HEAVY DAMAGE ESPECIALLY TO THE STANDARD GLASS COMPANY ON ROUTE 376. HEAVY RAIN STRONG WINDS AND LIGHTNING ALSO CAUSED DOWNED TREES AND POWERLINES CREATING POWER LOSSES THROUGHOUT THE AREA. LIGHTNING ALSO STRUCK A FEW PRIVATE HOMES CAUSING DAMAGE. MANY REPORTS OF LOCAL FLOODING WERE RECEIVED THROUGHOUT THE AREA.									
NEW YORK									
WESTERN									
NONE REPORTED									

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					KILLED	INJURED	PROPERTY	CROPS	
NORTH CAROLINA									
New Hanover County	4th	11AM			0	0	0	0	Waterspout
		A waterspout was sighted 3 miles east of Wrightville Beach.							
Moore County	5th	8PM	.2	70	0	0	3	1	Tornado
		A tornado touched down briefly near Robbins about 2 miles south off State Highway 74. (Mt Carmel Church Rd) Slight damage to buildings and trees.							
New Hanover County	7th	12:25PM			0	0	0	0	Waterspout
		A waterspout was sighted about 300 yards off Carolina Beach.							
Granville County	8th	Afternoon			1	0	0	0	Lightning
		A man was knocked unconscious by lightning near Oxford while working on a tobacco looper.							
Carteret County	9th	7:35AM			0	0	0	0	Waterspout
		A waterspout was sighted over the Atlantic near the Beaufort Inlet.							
Mecklenburg County	14th	12:45PM			0	0	0	3	Tornado
		A tornado touched down briefly about 10 miles west of Concord near Highway 73. Only slight tree damage.							
Carteret County	20th	2:05PM			0	0	0	0	Funnel Cloud
		An aircraft pilot sighted a funnel cloud north of Beaufort.							
Carteret County	26th	2:46PM			4	3			Lightning
		Four persons were injured when struck by lightning at Pine Knoll Shores. One woman had a cardiac arrest but was revived by cardio-pulmonary resuscitation.							
Yadkin County	26th	2:50PM			2	3			Lightning
		Two men were injured when hit about the same time in East Bend. In addition a dog was killed near the men and a transformer was knocked out two hundred feet away.							
Carteret County	26th	2:30PM					3		Hail
		Thunderstorms in Morehead City produced golf ball sized hail, strong gusty winds and severe lightning which killed numerous trees.							
Onslow County	28th	11:35AM			0	0	0	0	Waterspout
		An aircraft pilot sighted a waterspout 10 miles east of Surf City.							
Rockingham County	31st	8:30PM					1		Lightning
		A man in Eden was injured by lightning as he stood in his front door.							
NORTH DAKOTA									
Flasher (Morton County)	1	Morning			0	0	0	3	Lightning
		Lightning strike destroyed a hay stack.							
SW Hatton (Steele County)	10	6:20 p			0	0	0	5	Hail
		Heavy hail damaged area crops.							
Mayville (Traill County)	10	6:20 p			0	0	0	5	Hail
		Heavy hail sliced a three mile wide swath through the area severely damaging crops.							
Larimore (Grand Forks County)	12	7:30 p			0	0	4	°C	Hail
		Golf ball size hail damaged sidings and roofs of houses.							
York (Benson County)	12	8:15 p			0	0	0	0	Hail
		Golf ball size hail. No damage reported.							
Hannah (Cavalier County)	12	11:00 p			0	0	0	5	Hail
		Peach and golf ball size hail destroyed many crops.							
SE & IS Edgeley (LaMoure County)	14	7:30 p	?	?	0	0	0	0	Tornado
		Touched down briefly. No damage reported.							
Mapleton (Cass County)	17	3:55 p			0	0	0	0	Hail
		Golf ball size hail. No damage reported.							
Harwood (Cass County)	17	4:30 p			0	0	0	0	Hail
		Golf ball to 2-1/4 inch hail. No damage reported.							
NORTH DAKOTA (continued)									
Fargo (Cass County)	22	11:00 a			0	0	0	0	Hail
		Golf ball size hail. No damage reported.							
Litchville (Barnes County)	22	2:00 p			1	1	0	0	Lightning
		Two men were struck by lightning while combining.							
7N Casselton (Cass County)	22	4:55 p							Funnel
Harwood (Cass County)	22	10:45 p			0	0	0	0	Wind
		Winds of 60 mph. No damage reported.							
Crosby (Divide County)	25	3:00 p			0	0	5	°C	Wind, Hail
		High winds tipped over a mobile home and blew part of a motel roof off. Hail severely damaged area crops.							
Wildrose (Divide County)	25	3:30 p			0	0	5	°C	Wind, Hail
		High winds damaged grain bins, uprooted trees and damaged small farm buildings; while hail damaged area crops.							
Portal (Burke County)	25	4:00 p			0	0	5	°C	Wind, Hail
		High winds tipped and blew over combines; tipped over augers and destroyed many grain bins. Fields suffered damage from hail and wind.							
15W Sherwood (Renville County)	25	5:00 p			0	0	5	°C	Hail, High Winds
		High winds blew down steel grain bins, quonsets, and broke windows while hail damaged roofs and area crops.							
3S Lansford (Bottineau County)	25	5:15 p	?	?	0	0	0	0	Tornado
		Brief tornado touchdown. No damage reported.							
12W and 1S Bottineau (Bottineau County)	25	5:35 p	16.0	70	0	0	4	0	Tornado
		Tornado blew part of a roof off of a barn.							
Minot (Ward County)	25	6:31 p							Funnel
8S Towner (McHenry County)	25	7:00 p			0	0	0	0	Wind
		Winds of 60 mph blew over hay stacks.							
5N Minnewaukan (Benson County)	25	8:10 p			0	0	5	0	Wind
		High winds destroyed a barn.							
Cando (Towner County)	25	8:16 p			0	0	4	0	Wind
		Winds of 60 mph caused considerable tree damage.							
Leeds (Benson County)	25	8:23 p			0	0	0	0	Wind
		Winds of 50 to 60 mph. No damage reported.							
Devils Lake (Ramsey County)	25	9:00 p			0	0	0	0	Wind
		Winds of 58 mph. No damage reported.							
Turtle Lake (McLean County)	25	9:02 p							Funnel
Edmore (Ramsey County)	25	9:32 p							Funnel
Wilton (McLean County)	25	9:35 p							Funnel
Mandan Area (Morton County)	25	Evening			0	0	3	0	Lightning
		Lightning strikes set fire to two homes, grass and hay stacks.							
Grand Forks (Grand Forks County)	25	11:36 p			0	0	4	0	Funnel, Wind
		Winds of 60 mph knocked down a house under construction.							
5E Wyndmere (Richland County)	26	4:00 p							Funnel
8N Scranton (Bowman County)	26	5:15 p	5.0	?	0	0	2	0	Tornado
		Tornado knocked down electric fences and moved some hay bales.							
11NE New England (Stark County)	26	6:34 p							Funnel
5W Dickinson (Stark County)	26	8:10 p			0	0	0	0	Hail
		Golf ball size hail. No damage reported.							
8W Mott (Hettinger County)	26	Evening							Heavy Rain
		Heavy rains washed out fields and high water blocked a local highway.							

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 ¹ DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
NORTH DAKOTA (continued)									
Bowman (Bowman County)	31	9:10 p			0	0	0	0	Wind
			Winds of 60 to 70 mph. No damage reported.						
Reeder (Adams County)	31	9:21 p							Funnel
Dickinson (Stark County)	31	10:30 p			0	0	0	0	Wind
			Winds of 60 mph. No damage reported.						
OHIO									
North central and northeast	9	4 - 9PM			7	0	4	0	High wind, lightning
			Heavy thunderstorms moved through these areas downing trees and utility lines. A 53-year old man was struck and killed by lightning near his home in Trumbull county. Other lightning strikes started numerous fires.						
Columbus, Franklin County	19	4 - 6PM			0	2	3	0	High wind, lightning
			A heavy thunderstorm moved through the county with strong gusty winds and numerous lightning strikes. Lightning strikes injured two people at the Ohio State Fair.						
North central and northeast	19	4 - 6PM			1	0	4	0	Lightning
			Thunderstorms moved through this area with many lightning strikes starting fires and causing power outages. A 39 year old man was killed in Medina county when lightning struck his leg brace.						
Deshler, Henry County	27	Afternoon			0	5	3	0	High wind
			A thunderstorm moved over a Bavarian Festival and high winds knocked down two tents injuring 5 people.						
OKLAHOMA									
Near Guyman, Texas County	2	9:00 p			1	1	0	0	Lightning
			One man was killed and another injured when lightning struck the tree they were under. The two men were walking along the Optima Reservoir near Guyman when they were caught in heavy rain from a thunderstorm. Shelter was sought under a large tree when a few minutes later the lightning struck killing one man instantly and paralyzing the other man's legs.						
Near Orlando, Logan County	3	2:20 p			0	0	5	0	Lightning
			A bolt of lightning hit an oil tank west of Orlando blowing off the top and setting the partially filled tank on fire. The heat set a nearby tank on fire which was completely filled with crude oil. Flames from the fire were leaping 200 feet into the air.						
OREGON									
Burns, Harney County	6	730 PM			0	0	4	?	Wind
Buell, Polk County	8	-			-	-	3	-	Heat
			Unusually high temperature (over 100P) killed several thousand chickens on ranch of chicken processor.						
Scappoose, Columbia County	20	300 PM			0	0	5	?	Wind
			WSFO Portland and Le Sansregret, forecaster, visited the area and concluded this was a tornado-like storm.						
Amity, Yamhill County	20	500 PM			0	0	4	?	Wind
			Public report and a later visit to the area by OIC, Alva Jones, WSO Salem, indicated there were tornado-like winds.						
John Day, Grant County	23	-			0	0	5	?	Flash Flood
Baker County	23	930 AM			0	0	4	?	Lightning
PACIFIC									
Northern Mariana Islands (Saipan, Rota, Tinian and Northern Islands)	11-12				0	0	6	6	Tropical Storm Carmen
			Tropical disturbance formed just west of Saipan on 9th and staying in area strengthened to Tropical Storm Carmen on 11th 100 miles WNW of Saipan. Storm drifted N and then NW away from Northern Marianas. Almost continuous rain fell over Mariana Islands mainly from Carmen's rain bands spiraling into its center 8th through 12th. Total rainfall during this period at Coast Guard Loran Station close to 15 inches with about 6 inches falling on 11th. Kagman Communication Station reported 22 inches and overflow of rain gauge on 12th. Estimated property damage - private \$1,004,500, public \$359,000. Estimated agriculture loss - \$540,000. Saipan suffered most of damages: \$1 million private property, \$341,000 public property and \$200,000 agriculture. In agriculture loss, Tinian suffered \$250,000 and Rota suffered \$60,000. Private dwelling damages: 1 destroyed, 120 major damage and 400 minor damage.						
PENNSYLVANIA									
EASTERN			SEE END OF TABLE						
PENNSYLVANIA									
WESTERN			SEE END OF TABLE						
Connellsville	6	9:15pm			0	0	?	0	Lightning
			Lightning struck one house knocking a hole in the roof and breaking two windows.						
Martha Furnace Julian and Unionville	6	4-6pm			0	0	?	?	Rain
			Flash flooding closed a stretch of Rte 220, washed away a portion of Steele Hollow Rd and swept away at least two private bridges. Four and one quarter inches of rain fell in about an hour and a half starting around 4pm. Properties along Bald Eagle Creek between Martha Furnace and Unionville were hardest hit by flooding.						
State College	7	5pm			1	0	?	0	Rain
			A Ferguson Township girl drowned when she was pinned to a drainage gate by the force of swift run-off.						
Corry	9	3pm			0	0	?	?	Thunderstorm
			Strong thunderstorm winds knocked a mobile home off its foundation breaking a propane fuel line which then fueled a blaze in the trailer.						
Sharon	9	4pm			0	0	?	0	Lightning Thunderstorm
			Lightning struck a Pennsylvania Power Company substation and high winds knocked down about 70 primary power lines. Lightning also struck one house damaging the roof.						
Meyeredale	12	5:30-7pm			0	0	?	?	Rain
			Two and a half inches of rain fell, flooding basements and roadway underpasses. Four persons were temporarily trapped in their car along flooded Rte 219 south of Garrett before being rescued by local police and firemen.						
Erie	19	4:30pm			0	2	0	0	Lightning
			Two boys were injured when lightning struck nearby in separate occurrences.						
Curwensville	28	?			0	0	?	0	Lightning
			Lightning struck a barn and ignited a fire which destroyed the barn and some farm machinery within.						
PUERTO RICO									
Vieques Passage	1	9:25 a.			0	0	0	0	Waterspout
San Juan Metropolitan Area	7	Afternoon			0	0	5	0	Heavy Rain, Thunderstorms
			Heavy thunderstorm activity developed west of the San Juan Metropolitan Area and by early afternoon began drifting slowly over Cataño, Santurbe, Rio Piedras and Trujillo Alto. By late afternoon nearly 5 inches of rain had fallen over these areas causing heavy ponding in the low lying areas of Puerto Nuevo and Barrio Obreiro. The Rio Piedras-Puerto Nuevo rivers reached bankfull condition. Some damage to roads and a few low lying homes and businesses in Puerto Nuevo were reported.						
Vieques Passage	19	8:00 a.			0	0	0	0	Waterspout
Vieques Sound	24	5:15 p.			0	0	0	0	Waterspout
RHODE ISLAND									
			SEE END OF TABLE						
SOUTH CAROLINA									
Oconee-Pickens-Greenville-Spartanburg Cos.	6-7	-			0	0	6	4	Heavy rains and flooding
			An area of heavy rains across portions of the foothills caused areas of localized flooding... most serious damage on Reedy River where several businesses flooded.						
Blackville, Barnwell County	16	P.M.			1	1	0	0	Lightning

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					KILLED	INJURED	PROPERTY	CROPS	
SOUTH DAKOTA									
Beadle, Sanborn, Miner Lake, Moody, Minnehaha and northern Lincoln Counties	1	Afternoon and Evening			0	0	4	6	High Wind, Hail
									A severe thunderstorm developed in west central Beadle County during the afternoon and moved southeastward. High winds, near 80 MPH, and hail up to golf ball size pelted these counties. Hail piled up six inches deep on the level and up to three feet in ditches. Hail remained visible in areas thirty-six hours after the storm passed. Approximately 480,000 acres of nearly ripe crops were badly damaged or completely destroyed. Damage to crops and personal property had an estimated value near four million dollars. No injuries or deaths were reported.
Lake, Moody, McCook, Minnehaha, Turner and Lincoln Counties	14	3 PM CDT to 11 PM CDT					4	5	High Wind, Hail
									Severe thunderstorms moving through these counties developed winds up to 65 MPH and three-quarters inch hailstones. Damage to personal property and crops totaled near one-half million dollars.
Davison and Hanson Counties	15	3 PM CDT					0	0	Funnel Cloud
									Funnel sighted.
Brown County	22	5:30 PM CDT					4	0	Hail
									A severe thunderstorm developed hailstones three-quarters inch in diameter. Property damage was estimated near \$40,000.
Stanley & Hughes Counties	22	10:25 PM CDT					5	0	High Wind, Hail
									Severe thunderstorms produced wind to 81 MPH causing damage near one-half million dollars.
Beadle County	27	11:12 PM CDT					0	0	
									Wind gusts to 56 MPH were reported. No damage or injuries.
TENNESSEE									
Kingston, Roane County	6	Afternoon				1			Lightning
									A 14-year old youth was struck by lightning during a storm on the Lakeside Golf Course. The injured youth and two companions had taken shelter under a lean-to shack on the golf course. The youth was struck while bending down to pick up a golf bag and leaning from the shelter. It is believed the bolt of lightning first struck a tree near the shack and then hit the youth.
Memphis, Mid-Town Area, Shelby County	8	1:00 p.					5		Thunderstorm and heavy rain
									A quick hitting summer thunderstorm dumped four inches of rain in a two-hour period, causing severe flooding and heavy damage. The downpour left motorists stranded atop their cars, forced people from their homes and flooded numerous buildings. Baptist Hospital was hard hit as water from the storm poured into the hospital's ground floor, knocking out the building's air conditioning system and prompted evacuation of the emergency room and nursery.
Bloomington Springs, Putnam, Jackson County Line	16	5:15 p.				2			Severe thunderstorm
									A mobile home was overturned by strong winds during a thunderstorm. Two of the three occupants received minor injuries.
Nashville, Davids on County	19	6:26 p.					4		Severe thunderstorm
									A severe thunderstorm, accompanied by strong winds, left 1200 South Nashville homes temporarily without electricity and wrecked five aircraft at the Metro Airport.

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TENNESSEE continued)									
Memphis, Shelby County	29	6:05 p.	2	75-100	0	26	6	-	Tornado
									A tornado occurred in the Whitehaven area of south Memphis at about 7:05 p.m. CDT. The path was two miles long, but the most damage was confined to a half mile stretch lined with fast food restaurants.
									First damage occurred near the intersection of Farona and Davidson and was limited to trees, patios, and power lines. The tornado skipped over trees and commercial buildings and touched down near the corner of Chambliss and Elvis Presley Boulevard. The path direction was to the north-northwest. The damage indicated the tornado reached its maximum intensity, totally destroying Wendy's and the Pizza Hut. Very heavy damage to the Steak House near the two destroyed buildings. Heavy damage occurred to automobiles (80) in the parking lots of the various businesses. Many windows were broken out from flying debris. Cars were turned over resting on their sides and others piled one atop another. Across the street, on the west side of Elvis Presley Boulevard, most of the damage was caused by debris blown into store fronts although an appliance store and a north wall blown outward and the roof caved in.
									The tornado lifted again and passed over buildings and trees with little damage only to surface again at a Skaggs Drug Store on Raines Road. Many small stores had their roofs blown off just to the north of the Skaggs Drug Store. Some roof damage and glass damage occurred at the J. B. Hunter Department Store. All the glass was blown out of J. B. Hunter's Green House, which was located on the north side of the store.
									The tornado continued for about one mile producing tree damage before lifting and dissipating near Winchester and Lakeview Roads.
									Several witnesses reported seeing a funnel cloud while others didn't - only flying debris. Some heard a sound like an explosion. The tornado was accompanied by a brief period of heavy rain.
									No one interviewed saw lightning or heard thunder with this tornado. No thunderstorm was recorded at the Memphis Metropolitan Airport, which was only two miles away from the tornado path. This tornado was spawned by turbulent remnants of tropical storm Debra.
									All in all there were two stores destroyed and 28 others damaged. The 4.6 million dollar damage figure does not include the cost of cleanup operations and damages to power and telephone lines.
TEXAS									
NORTHERN									
									SEE END OF TABLE
TEXAS									
SOUTHERN									
									SEE END OF TABLE
TEXAS									
WESTERN									
Redford, Presidio County	5	9:00p - 5:00a			0	0	5	5	Flood
									Rains of up to 10 inches falling in Mexico across the river from Presidio caused water to rise rapidly in the Presidio area. Damage was sustained to levees in the Redford area, just below Presidio, as well as in the areas south of Redford. The flooding also caused \$30,000 worth of damage to property in the Redford area, including a vehicle and some pump motors. Crop damage to peppers, sudan, alfalfa, and onions was widespread over 300 acres and amounted to \$120,000.
Canyon, Randall County	14	5:07p			0	0	2	0	Hailstorm
									Hail with diameters as large as 1.75 inches fell in an area 3 miles northeast of Canyon. Moderate winds and heavy rain accompanied the storm. Damage in the area was very spotty and was confined to light roof damage and window glass breakage.
Crosbyton, Crosby County	15	7:25p	.5	30	0	0	0	0	Tornado
									A thin, columnar tornado was spotted by numerous persons in open country 7 miles west of Crosbyton. The tornado moved eastward and remained visible for only a few minutes. It caused no damage and was not accompanied by rain or hail.
Spur, Dickens County	15	7:50p	Short	Narrow	0	0	0	0	Tornado
									A small tornado was spotted 15 miles southeast of Spur in open country by a B-52 aircraft while on a training mission. No apparent damage was done. No further information was available.

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					KILLED	INJURED	PROPERTY	CROPS	
TEXAS (continued)									
WESTERN Post, Garza County	27	5:25p	2	25	0	0	0	0	Tornado
A narrow, rope-like and yet highly visible tornado was reported 10 miles west of Post, accompanied by 1-inch rains and pea-sized hail. The tornado's movement was erratic, but generally it moved northeastward at 10 miles an hour. The tornado stretched horizontally underneath the thunderstorm cell for nearly four miles and remained rope-like during its lifetime of 15 minutes. It remained over open ground and caused no damage.									
Marathon, Brewster County	28	1:10p			0	0	4	0	Windstorm
Damage was sustained in and around the Marathon area over a 45 minute period when a windstorm with winds described as "very high" swept through the area. Hail-sized hail accompanied the winds but did no damage. Damage was indicated to storage buildings and outbuilding roofs. Rains accompanying the storm totaled .75 inches.									
Wink, Winkler County	28	4:45p			0	0	4	0	Hail, Windstorm
Hail measuring up to 1 inch in diameter along with winds estimated at 60 miles an hour moved into the Wink area from the north. The hail covered the ground in an area around Wink with heavy damage to gardens and trees in the area. Roof damage occurred to mobile homes and houses in the area as well as some glass breakage. Heavy rain accompanying the storm was indicated to be as much as 2 to 3 inches in the area.									
UTAH									
Box Elder, Davis, Weber and Salt Lake Counties	13	10:00 p 10:00 p	--	--	--	--	5	6	High wind, hail, and heavy rain
A strong thunderstorm with heavy rainfall, high winds and small hail moved from the Great Salt Lake and crossed Northern Utah and was centered near the Willard, Utah area around 1:30 PM MPT. In Willard, minor flood damage to a number of basements was reported, as irrigation ditches clogged and overflowed. Most serious damages of approximately a million dollars resulted from hail damage to almost ripe fruit in the Willard area. The Salt Lake Airport was on the southern edge of this storm and reported wind gusts of 74 MPH. About \$10,000 dollars in damages was estimated to hangers, trees, and power lines near the airport and about \$40,000 dollars to flooded homes near Willard.									
VERMONT									
NONE REPORTED									
VIRGINIA									
Virginia Beach (near)	1	12 Noon			0	0	0	0	Waterspouts
Two waterspouts were sighted, one about 10 miles off Rudee Inlet and the other about 2 miles east of Sandbridge Beach. Both developed from a thunderstorm of unusually high vertical development.									
Richmond	1	6:00 p.- 8:00 p.			0	0	0	0	Rain
Heavy thunderstorm rainfall caused a rapid build-up of water on city streets, disrupting traffic and forcing a temporary closing of several roads. As much as 7 feet of water flooded some streets for a brief time.									
Chesapeake Bay	2	Morning			0	0	0	0	Waterspouts
Four waterspouts were reported. Two were reported between Cape Henry and Hampton and the other two about 50 miles north of Norfolk.									
Williamsburg Area	3	6:13 p.			0	0	2	0	Lightning
Lightning struck pickup truck, killing a cat that was underneath and then travelled to a garage where it damaged the electrical circuits of both garage and home.									
Winchester and Frederick County	4	3:30 p.- 6:00 p.			0	0	4	3	Wind, Hail, Rain
One of the worst storms in years caused a wide variety of damage. Winds knocked down three porch columns of one home and leveled a private garage. Heavy damage to trees was also reported, with power outages affecting around 500 households.									

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					KILLED	INJURED	PROPERTY	CROPS	
VIRGINIA (continued)									
Southern Portion	4	3:00 p.- 9:00 p.			0	0	5	4	Rain, Wind, Lightning
Very heavy rain in less than two hours time occurred at various locations and was associated with a stalling cold frontal system. In the far west portion three to four inches of rain in an hour's time brought what some said was the worst flooding ever in the Pennington Gap area, with extensive damage done to the first floor and basement of an elementary school. At Gate City many businesses were flooded as were the basements of many homes. In the south-central section, four inches of rain fell in one hour with local streams overflowing their banks very rapidly. In Farmville many streets were blocked by high water, with stores and automobiles flooded in low-lying areas. One supermarket reported several thousands of dollars damage, with three to four feet of water in the store. In the southeast corner of the state over three inches of rain was measured at Patrick Henry International Airport as widespread flooding occurred over the Peninsula, especially in street underpasses. Wind and lightning combined to disrupt electrical service to more than 10,000 homes in the Newport News area.									
Suffolk - Newport News Area	5	Afternoon			0	0	6	0	Rain
Over two and one half inches of rain in less than an hour resulted in flooding of many homes and businesses as thunderstorm activity continued in the very warm and moist air mass over the area. In some cases, the entire first floors of some residences were under water, and some 10 or 12 cars had water up to roof-top.									
Northern and West-Central Portions	6	Afternoon- Evening			0	0	6	4	Rain
Very moist air over the area continued to bring locally very heavy rain. In the Roanoke area, state flood disaster relief was offered as nearly three inches of rain in less than two hours caused streams to overflow into homes, businesses and streets. About 100 persons were evacuated in one Roanoke apartment building as water reached the first-floor level. Scattered flash flooding also affected homes and farms in the extreme northern counties of the state as well. One home near Strasburg was moved off its foundation by rushing water. Streets were closed for a time in Winchester. Crops were destroyed and farm animals drowned in the Round Hill area of Loudoun county.									
Rocky Mount (3.5 NW) Franklin County	9	3:45 p.	0.1	10	0	0	3	0	Tornado
A small tornado, moving from southwest to northeast, touched down briefly and destroyed a 10-by-14-foot aluminum storage shed. The shed, in turn, struck and damaged a nearby camper trailer. A newspaper woman, who was driving in the area, saw the funnel and described it as "a black cylinder" reaching toward the tree tops. Very heavy rainfall was also occurring in the vicinity. Damage was estimated at \$2,500.									
Wytheville, Wythe County	9	Afternoon			0	0	3	0	Rain
Locally heavy rain caused some flooding of streets, yards and basements.									
Rockingham County	10	6:00 p.- 10:00 p.			0	0	4	3	Rain, Lightning
Between three and four inches of rain was reported in around one hour's time over some sections. Several roads were closed due to water which was running two to three feet deep in places. Lightning caused a fire which damaged a room of a house, along with extensive smoke damage.									
Northern and Central Portions	11	Night			0	0	4	4	Rain, Wind
Local flooding occurred over scattered sections as "torrential downpours" were again prevalent. Basements were flooded and some roads closed in the Broadway-Tamberville area, with water collapsing the basement of one home. In the Widewater section of Stafford County, heavy winds and lightning toppled several trees and pulled down power lines. Locally severe street flooding was reported in the Petersburg and Hopewell areas, with an unofficial report of four inches of rainfall near Richmond.									
Lynchburg	25	4:00 p.			0	0	4	0	Wind, Lightning
Apparent very localized severe thunderstorm wreaked havoc with power lines in the area.									
Gretna (5E), Pittsylvania County	25	6:00 p.			0	0	3	5	Hail
Marble-size hail destroyed a large percentage of tobacco acreage in what was described as only a 5- to 15-minute period of time.									
Wise County	25	7:30 p.- 9:30 p.			0	0	4	0	Wind, Lightning
In Big Stone Gap, wind lifted a carport up and debris damage the roof of a home. Car parked under the carport was not scratched. At Wise, lightning struck a TV antenna, blew out the television set and the resulting fire destroyed a mobile home.									

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					KILLED	INJURED	PROPERTY	CROPS	
VIRGINIA (continued)									
Ashland, Hanover County	25	Night			0	0	4	4	Hail, Wind, Lightning
			Various crops in the area were demolished by hail up to the diameter of a quarter in size. Hail also dented automobiles and home siding, along with breaking windows. Wind and lightning also disrupted power to about 500 homes.						
Lovington, Nelson County	27	9:30 p.			1	0	0	0	Heavy Rain
			Three-hour rain, whose unofficial total was as much as 7 inches, caused flash flooding along Route 56. A man, walking along the edge of the highway, slipped in water running across the road and was swept into a ravine filled with swiftly flowing water which was heading toward a creek. He drowned; his body was found 1 1/2 miles downstream. Normally the ravine is dry.						
Gretna, Pittsylvania County	28	4:00 p.			0	0	4	0	Lightning
			Lightning-caused fire resulted in some attic damage to a home along with damage from water and smoke.						
Rustburg, Campbell County	29	4:00 p.-5:00 p.			0	0	4	0	Lightning
			Two homes received damage when struck by lightning. One had a fire set in the living room when a bolt travelled along the antenna. The other home was set briefly ablaze when lightning hit and split the chimney in half.						
Roanoke	30	Afternoon			0	0	3	0	Rain, Lightning, Wind
			Brief but "vicious" thunderstorm brought estimated two inches of rain in less than 30 minutes, along with low-lying street flooding. Wind and lightning snapped trees and power lines in several sections.						
Norfolk-Virginia Beach Area	30	4:00 p.-7:00 p.			0	0	3	0	Wind, Lightning, Rain
			One of the worst thunderstorms of the summer brought rainfall, unofficially reported over three inches in some sections. Wind and lightning was responsible for power outages to more than 17,000 homes during the storm.						
Northern Portion	30	6:00 p.-8:00 p.			0	0	3	0	Lightning, Rain
			A number of minor fires occurred as widespread thunderstorm activity moved across the area. In Dumfries, water welled up to fender-high on vehicles in one street.						
Calpeper	31	2:00 p.-3:00 p.			0	0	3	0	Lightning
			Lightning struck the meter box of a home, doing minor damage to the outside.						
Lynchburg	31	2:00 p.-3:00 p.			2	1	3	0	Lightning
			Two fifth-grade students were apparently standing near a tree when lightning struck. One was instantly killed and the other died later in a hospital. A teacher, who had gone to warn them about standing near the tree, was seriously injured. In addition to the tragedy, lightning caused several minor house fires in the area.						
Lyells(near), Westmoreland County	31	3:30 p.			0	0	4	0	Wind
			Wind lifted a partially completed storage bin and caused it to crush a nearby grain elevator.						
Danville	31	11:00 p.			0	0	5	0	Lightning
			Electrical department official called the storm "the most severe electrical storm in the city's history, as widespread power outages occurred due to damaged transformers.						
VIRGIN ISLANDS									
St. Croix	2-3	8:00 p.-8:00 a.			0	0	5	0	Thunderstorms, Heavy Rain
			A strong tropical wave moved across the island early on the 2nd followed by an intense area of thunderstorms and heavy rainfall. The heaviest rainfall was over the north eastern portion of St. Croix where 6 to 9 inches were reported over about a 12-hour period. Flash flooding was reported in the Christiansted area where several shops and houses were flooded with about a foot of water from overrunning creek beds. Some road damage was also reported.						

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	
VIRGIN ISLANDS (continued)									
Virgin Passage	8	2:00 p.			0	0	0	0	Waterspout
Virgin Passage	12	3:00 p.			0	0	0	0	Waterspout
St. Croix	16	Afternoon			0	0	5	0	Thunderstorms, Heavy Rain
			The second strong tropical wave of the month moved from the Eastern Caribbean to just west of St. Croix early on the 16th. An area of heavy rain and thunderstorms moved over the island later in the afternoon with rainfall amounts of up to 6 inches in some areas. Normally dry creek beds overflowed into areas of Christiansted and damaged some roads out of the island. Several stores and small houses were flooded from the heavy runoff.						
WASHINGTON			SEE END OF TABLE						
WEST VIRGINIA			SEE END OF TABLE						
WISCONSIN									
Douglas County	1	7:12 pm	-	-	0	0	0	0	Funnel Cloud
			Funnel cloud spotted in Superior, Wisconsin. No known damage.						
Washburn	15	Early morn.-	-	-	0	0	?	?	Wind
			Numerous trees were downed in early morning. Severe thunderstorms in Spooner in Washburn County.						
Marathon	15	3:41 pm	-	-	0	0	?	?	Severe thunderstorms
			Trees fell on a number of homes in Wausau in Marathon County during an afternoon thunderstorm. Wausau's FSS reported 70 knot wind gusts. A Wausau area nursing home reported windows blown out.						
	15	4:10 pm							Wind
			Trees were downed and a trailer was overturned at Rib Mountain in Marathon County during a thunderstorm						
	15	5:45 pm							Hail
			Golfball sized hail was reported at Fox Lake in Dodge County						
	15	5:50 pm							Hail
			Golfball sized hail was reported at Mosinee in Marathon County.						
	5:52 pm	-	-	-	0	0	0	?	Tornado
			A tornado touched down briefly near Elkhorn according to the police. No damage of property or injuries occurred.						
Dodge	15	9:00 pm							Wind
			A 30-50 foot shed was destroyed during a severe thunderstorm 4 miles north of Fox Lake in Dodge County.						
Southeast	15	9-10 pm	-	-	0	1	?	?	Severe thunderstorms
			Strong thunderstorms downed trees on houses and cars and caused damage at a number of trailer courts in southeast Wisconsin. Fifty trailers and five cars were damaged by heavy thunderstorms and one woman was injured around 9:25 pm in the Sussex-Lisbon area in Waukesha County. At Burlington in western Racine County, a thunderstorm downed scores of trees between 9 and 9:30 pm. Police stated that many roads were blocked. A trailer was also reported to have been flipped on its side during a thunderstorm at Bristol in Kenosha County around 9:30 pm.						
Fond du Lac Co.	15	10:10 pm	-	-	0	1	?	?	Thunderstorm
			A roof was blown off a home during a thunderstorm at Dundee injuring a woman.						
Racine County	18	8:30 am	-	-	0	0	?	?	Severe thunderstorms
			Severe lightning caused numerous house fires in Wind Lake area. Extensive damage done but no dollar amount given.						
	18	Early morn	-	-	0	0	5	?	Heavy rains
			Heavy rains of 5 inches or more in Union Grove. \$100,000 stamp collection plus a model train collection and \$300 worth of bicycle racing tires destroyed by basements in the area were flooded with 6 to 7 feet of water.						
Shawano County	18	2:15 pm	-	-	0	0	?	?	Hail
			3/4 inch hail at Bodouel. Some damage to trees and crops.						

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1978

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
WISCONSIN (continued)									
Crawford County	18	6:15 pm	-	-	0	0	5		Lightning
									Lightning hit power transformer near Prairie du Chien in Crawford County. \$75,000 transformer destroyed.
	18	6:30 pm	-	-	0	0	5		Severe thunderstorms
									Hail as large as tennis balls accompanied by very strong winds damaged or destroyed crops, trees, power lines, cars and buildings in Prairie du Chien in Crawford County. Damage estimate to over \$200,000.
Fond du Lac Co.	18	6:55 pm	-	-	0	0	?	0	Lightning
									Severe lightning knocked out local radio station and started a large building on fire in the city of Fond du Lac. Extensive damage done to building.
Dodge County	18	8:29 pm	-	-	0	0	?	?	Wind
									50 plus mph winds blew numerous trees down near Beaver Dam in Dodge County.
Washington County	18	8:40 pm	-	-	0	0	?	?	Severe thunderstorm
									Five miles north northeast of West Bend in Washington County 50 plus mph winds and very heavy rains.
	18	9:00 pm	-	-	0	0	?	?	Severe thunderstorm
									Fifty to 60 mph winds and very heavy rains in West Bend in Washington County.
Waukesha and Milwaukee Counties	18	11-11:40 p	-	-	0	0	?	?	Severe thunderstorms
									Severe thunderstorms with wind gusts to over 50 mph knocked down numerous trees and power lines in eastern Waukesha and southern Milwaukee counties.
Sheboygan County	18	Evening	-	-	0	0	?	?	Heavy rains
									Heavy rains of over 3 inches in the city of Sheboygan in a 2 hour period flooded streets and collapsed numerous basements. Some power outages occurred.
Marathon County	18	Evening	-	-	0	0	?	?	Heavy rain
									Up to 5 inches of rain in parts of Marathon County flooded roads and basements and caused extensive crop damage.
Kenosha County	18	Night	-	-	0	0	?	-	Heavy rain
									400 to 500 feet of shoulder along Highway 45 above 1 mile south of Racine-Kenosha County Line was washed out. Damage done to road.
Waukesha County	22	Early morn	-	-	0	0	5	-	Lightning
									Lightning caused fire damage to house in excess of \$50,000 in New Berlin in Waukesha County.
Sheboygan County	22	Early morn	-	-	0	0	5	-	Lightning
									Near Cascade in Sheboygan County lightning-caused fire destroyed large barn and all its contents. Estimated value of \$70,000-80,000.
	22	Evening	-	-	0	0	?	?	Heavy rains
									Two to 5 inches of rain over Chippewa, Taylor, Marathon and northern Clark Counties causing extensive crop damage, flooding of streets and basements.
Douglas County	22	Evening of 22 thru early morn	-	-	0	0	?	?	Heavy rain
									Heavy rains of 5 to 7 inches across Douglas, Bayfield, Burnett, Washburn, Ashland and Sawyer Counties caused extensive crop damage ... street and basement flooding in the city of Ashland, in Ashland County, alone estimated at \$146,750 worth of damage to public property and \$140,000 damage to private property.
	22	Night	-	-	0	0	5	-	Lightning
									Lightning-caused fire destroyed gas storage tank and 100,000 gallons of gas in Superior in Douglas County. Estimated loss at \$200,000.
Chippewa County	23	7:15 pm	-	-	0	0	0	0	Funnel cloud
									Funnel clouds sighted over central Chippewa County.
Clark County	23	7:50 pm	-	-	0	0	0	0	Funnel cloud
									Funnel cloud sighted in Thorp area of Clark County.
WISCONSIN (continued)									
Chippewa County	23	8:10 pm	-	-	0	0	0	0	Funnel clouds
									Funnel clouds sighted in Chippewa County between Cornell and Holk.
Washara County	23	9:00 pm	-	-	0	0	?	0	Lightning
									Lightning-caused fire destroyed a large barn and storage shed plus all the contents near the town of Pine River in Washara County. Dollar loss was not given but was extensive.
Marathon County	23	9:00 pm	-	-	0	0	?	?	Severe thunderstorms
									Heavy rains, high winds, and hail caused extensive damage blowing out windows, knocking down power lines, and toppling trees onto cars and buildings in Wausau in Marathon County
Ashland County	23	Night	-	-				5*	C Heavy rain
									Heavy flood damage to crops and roads in Ashland County estimated to be in excess of \$175,000.
WYOMING									
									SEE END OF TABLE
CONNECTICUT									
Somers	4	morning			0	0	3	0	Lightning
									Lightning blasted a hole in the back door of a house, blew out a wall, exploded lights and burned out wiring.
Newington	4	morning			0	1	0	0	Lightning
									As a man was closing a window a "white light" flashed in his sight and he was thrown to the floor. He recovered in hospital treatment.
Enfield	6	13:15PM			0	0	2	0	Lightning
									Lightning struck an electrical substation doing minor damage.
MASSACHUSETTS									
Attleboro	2	2 AM			0	0	4	0	Lightning
									Three or four strikes hit houses and utility lines causing small fires and power outages.
Lawrence Methuen North Andover Raynham	4	morning			0	0	3	0	Lightning, rain
									A cold front with heavy thunderstorms brought several lightning strikes and much highway and urban flooding. A house in Raynham was struck causing a burn out of its wiring.
Bourne Brockton Carver Eastham Malden Middleboro Plymouth Rehoboth Whitman Worcester	6-7	all day			1	0	4	0	Lightning, heavy rain
									An electrician was electrocuted as lightning hit telephone lines. There were fourteen (14) lightning strikes on houses and factories which resulted in fires. From 3 to 8 inches of rain fell over a two day period. This brought an excessive amount of flooding to all southeastern Mass. especially Eastham, Lakeville and Middleboro.
MINNESOTA									
Sibley, Le Sueur, Waseca, Watonwan, Blue Earth, Nicollet and Scott Counties	1	7:30P	300 ft.	34	0	1	6	6	Tornado, Hail, Strong Winds
									A cluster of strong thunderstorms struck a seven county area during the evening hours with winds of 60 to 70 mph and hail of 3/4 inch to an inch and a half in diameter with some as large as baseballs and softball. Rainfall ranged from one inch to over three inches. Hail that looked like a blanket of snow was still on fields near St. Clair the following morning. Thirteen sections in Nicollet County alone with hail damage 50% or greater. Losses ranged from 50 to 100 percent in the seven county area. Considerable interruption to power lines and 47 house trailers had holes in roofs as well as car damage from hail at Madelia. One injury to motorcyclist when tree fell in front of him in LeSueur.
									A tornado dipped down on the Don Witts farm one mile south of Alma City in western Waseca County. Apple trees were plucked out of the ground and wind break was leveled along with the barn. Unusually freakish was the tail of tornado was moving from the northeast but when it hit in cornfield and lifted was last seen moving northeast. Most of storm track was to the northeast in storm area.

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					KILLED	INJURED	PROPERTY	CROPS	
15SW Little Fork Koochiching County	17	8:30P							Funnel cloud
International Falls Koochiching County	17	9:01P							Funnel cloud
NE Georgetown Clay County	17	4:45P							Funnel cloud
Ponsford Becker County	22	-							Funnel cloud
Itasca State Park Mahonmen County	22	-							Funnel cloud
NEW JERSEY (Burlington County)	11	afternoon			0	0	?	?	Hail Storm Dropees approx 100 acres of farmland
A freak hail storm caused severe and extensive damage to approximately 10 area farms. Hail size 1 inch.									
Southern (Plumsted Township) (New Egypt) (Ocean County)	1	p.m.			0	0	6	?	Flash Flood, Hail
The flash flood raised the height of Oakford Lake 20 feet. 1/2 inch size hail fell about 4:30 PM the 31st.									
New Brunswick	11	p.m.			0	0	4	?	Damaging winds Hail 1 inch Funnel Cloud observed.
Damaging winds, hail one inch in size and Funnel Cloud observed. No great length. No contact with the ground.									
Northern		NONE REPORTED							
NEW YORK COASTAL (Extreme Southeast) Nassau, Suffolk Counties	12	a.m.	300	200	1	?	6	?	Tornado, Flood
The storm dropped more than 2 inches of rain on Long Island and New York City, leaving floods that apparently caused one death and spawned a tornado. Tornado hit 4 factories. The tornado touch down was in Plainview, Nassau County.									
PENNSYLVANIA EASTERN Manheim Township and Mt. Joy, Lan- caster County	5	6 to 7:30 PM EDT			0	0	3	0	Heavy Rain
Heavy downpours caused considerable roadway flooding and some basement flooding.									
Centre, Union, Snyder, Lancaster, Berks, Lehigh and Northampton Counties	6	3:00 PM to 9:00 PM EDT			0	0	4	0	Heavy Rain Electrical
Thunderstorm downpours caused considerable roadway flooding with some roads closed and a few roads washed out. There was also a good bit of basement flooding. Heavier rainfall amounts reported were nearly 6 inches at Beavertown, Snyder County and 4.69 inches at Allenwood, Union County. Lightning caused fires, burning down two barns and also contributed to power outages to about 30,000 customers.									
Chambersburg, Franklin County	7	4:00 PM to 5:00 PM EDT			0	0	5	0	Wind, Heavy Rain, Hail
A severe thunderstorm moving across Chambersburg took the roofs or portions of roofs off several buildings and downed trees and utility poles. One large tree and several utility poles fell on automobiles. Power outage to 1/3 of the borough resulted. The heavy rain caused roadway flooding and 1/2 inch hail was reported.									
PENNSYLVANIA EASTERN Schuylkill, Carbon, Monroe, Berks, Lehigh and North- ampton Counties	7	5:00 PM to 9:00 PM EDT			0	1	4	0	Wind Heavy Rain Electrical,
Thunderstorm wind gusts uprooted or knocked down trees and blew down a large meeting-size tent near Bethlehem injuring one person. Lightning and wind combined to cause power outages. Lightning strikes caused damage to a number of buildings and also to a large smoke stack. The heavy rain resulted in roadway flooding.									
Coaldale, Schuylkill County to Lansford Carbon County	7	5 PM to 6 PM EDT			0	0	3	0	Tornado
A tornado touched down several times as it moved along the north side of Panther Valley. The tornado did not cause much damage, but was seen by many local residents.									
Coal Township, Northumberland County	11	9 AM to Noon EDT			0	0	4	0	Heavy Rain
Thunderstorms in the Shamokin area brought heavy rain and roadway flooding. Flooding also damaged a baseball field and swimming pool area.									
Montgomery County	11	Noon to 3 PM EDT			0	0	4	0	Wind, Electrical, Heavy Rain, Hail
Thunderstorm wind gusts downed or uprooted many trees, also bringing down some utility lines. Heavy rain and hail were also reported causing some roadway flooding with some roads being closed.									
Jermyn, Carbondale, and Mayfield, Lack- awanna County	12	2 PM to 4 PM EDT			0	0	4	0	Heavy Rain
Heavy downpours caused considerable roadway flooding and some basement flooding. One basement wall also collapsed.									
Montgomery, Bucks and northern Chester County	12	7 PM to 10:30 PM EDT			0	0	5	0	Heavy Rain
Heavy rain caused considerable roadway flooding with roads closed and at least one mud slide. One small bridge was washed out and one badly damaged. A factory was flooded, as well as many basements with one basement wall collapsed. A number of automobiles were damaged in flooded parking lots.									
Franklin and Towansensing Town- ship, Carbon County	12	11PM to 1 AM EDT			0	0	4	0	Heavy Rain
Flash flooding brought on by more than 4-1/2 inches of rain flooded a fish hatchery and caused roadway flooding. Portions of some roads were washed out.									
Elizabethtown and Mt. Joy Township, Lancaster County	15	4:30 PM to 5:00 PM EDT			0	1	4	0	Heavy Rain Electrical
Heavy rainfall of 3.2 inches caused roadway and basement flooding. The flooding resulted in damage to roadways, bridges and storm sewers. Lightning struck and critically injured a boy bringing a cow in from pasture.									
Lancaster and Chester Counties	27	4 PM to 5 PM EDT 10 PM to midnight			0	0	4	0	Heavy Rain, Wind
Heavy rain in central Lancaster County with amounts up to 4.6 inches at Lancaster caused widespread roadway flooding and some basement flooding. High winds downed trees and a shed and damaged another building in Chester County.									

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					KILLED	INJURED	PROPERTY	CROPS	
PENNSYLVANIA (continued)									
EASTERN									
Conewago Township, Adams County to Penn, West Manheim and Manheim Townships, York County into Carroll County, Md.	28	4:30 PM to 5 PM EDT			0	0	4	2	Tornado
The tornado uprooted or snapped off many trees, flattened grain fields and destroyed a cattle barn in Maryland. Killing one steer. Hail and heavy rain were also reported.									
Chester, Bucks, Montgomery, Delaware and Philadelphia Counties	28	3 PM to 6 PM EDT			0	0	4	0	Heavy Rain
Thunderstorm downpours caused widespread roadway flooding.									
Monroe Township, Snyder County to Upper Augusta Township, Northumberland County	28	6:00 PM to 6:30 PM EDT			0	1	4	0	Tornado
The tornado damaged a garage, broke windows out of the house injuring 1 person with flying glass. It also tore the roof and attic off a home, uprooted or snapped off many trees, took windows out of an automobile showroom and a window out of a restaurant. The tornado crossed the Susquehanna River forming a waterspout 100 to 200 feet high.									
Kutztown, Berks County	28	16:30 PM to 17 PM EDT			0	0	4	0	Tornado
The tornado lifted up the roof on a store in a shopping plaza and folded back a portion of the roof. Display cases inside the store were moved about. The window was blown out of another store in the shopping plaza, and elsewhere siding was blown off a house and a shanty overturned. Hail, heavy rain and flooding also occurred at the shopping plaza.									
Hatfield Township, Montgomery County	28	8:30 PM to 9:00 PM EDT			0	1	4	0	Tornado
A dozen buildings received damage from the tornado. One had the roof partially torn off and thrown on automobiles. A house had windows broken, shingles torn off and trees uprooted. Another house had all trees uprooted or snapped off and many windows were out causing one person to be injured by flying glass. At still another home the front windows and rear wall were blown out. A trailer was lifted up and slammed against a barn. Many trees were down throughout the path with power outages to 3,500 customers due to downed wires.									
RHODE ISLAND									
Newport	7	7 AM			0	1	3	0	Lightning
A woman lying upon her sofa at home was struck as the blast entered her home. A chimney was blown off another house and a car's windshield was wrecked as lightning struck.									
Providence	7	3:00 AM			0	0	5	0	Lightning, heavy rain
A large historic building was burned out by a strike. In West Warwick two chimneys were blown off.									
North Attleboro	7	10:40 PM			0	0	2	0	Lightning
A large pine tree was blown up as lightning hit. Electricity passed into a house making a hole in the roof and blowing fuses.									
Pawtucket	8	?			0	2	3	0	Lightning
Lightning hit an antenna at the Pawtucket Zoo and hurt a policeman and zoo employee. They received shocks causing chest pains and temporary paralysis. Two more houses were struck. One experienced a roof fire.									
TEXAS									
NORTHERN									
Delta County	2	Aftnoon			0	0	4	?	Windstorm
A thunderstorm developed over western Delta County, producing high winds in the West Delta-Kjondike area. The winds damaged some barns and out-buildings in rural areas.									
McCulloch County	2-3				0	0	4	?	Flash Flooding
Heavy rains from the remnants of Tropical Storm Amelia moved into McCulloch County the afternoon of August 2. Amounts up to five inches were reported in the county with some fence and water gap damage occurring.									
Runnels County	2-3	a.m.			0	0	5	6	Flash Flooding
Heavy rains moved into Runnels County the nights of 8/2-3. Rains up to 12.75 inches fell in the eastern 2/3s of Runnels County, with the greatest amount near Hatchfell in the central portion of the county. Flash Flooding along Elm Creek and other creeks damaged agricultural land and washed out fences and ponds. Flooding occurred in low lying areas of Ballenger.									
Taylor County	3-4				0	0	5	?	Flash Flooding
Heavy rains of up to 10 inches fell over central Taylor County and up to 17.5 inches over southwest Taylor County Thursday afternoon and night. This caused flash flooding in Little Elm, Lytle and Cedar Creeks, which flow through Abilene. Little Elm was near 1 foot above flood stage and water was 3-4 feet over the spillway at Lytle Dam.									
Schackelford County	3-4				6	4	7	?	Flash Flood
Heavy rains of up to 32 inches fell in Schackelford County Thursday night and Friday causing flash flooding on Little Hubbard Creek. A wall of water 20 feet high moved through Albany around 7:30 p.m., inundating the south side of Albany and then the flood waters backed up northward over Albany until 80% of the city was covered with water. Six people were killed as the flood swept through Albany and all highways in and out of the city were closed. In and around Albany, 109 houses, 19 mobile homes, 26 businesses, 94 vehicles, and 6 bridges were destroyed or damaged. McCarty Lake Dam, located 10 miles southwest of Albany, developed a gash on the east side, 50 feet deep and 25 to 30 feet wide. Waters from the dam flowed down Salt Prong Hubbard Creek and into North Hubbard Creek and the east into Hubbard Creek Lake in West central Stephens County. This flash flood destroyed 10 to 12 homes, damaged 250-300 others. Near the extreme western portion of Hubbard Creek Lake, 17 mobile homes were destroyed and seven damaged.									
Throckmorton County	3-4				0	0	6	6	Flash Flooding
Heavy rains fell the night of August 3 and August 4. Amounts ranged from near 20 inches in southwest Throckmorton County to 5 inches in eastern sections of the county. Flash Flooding occurred in the city of Throckmorton along Elm Creek. All highways into the town were closed for a time Friday. A wall of water 4-5 feet high flowed down Elm Creek at Elbert around 3 p.m. August 4 and the creek was 1/2 mile wide at spots.									
Haskell County	3-4				0	?	7	7	Flash Flooding
Heavy rains moved into Haskell County. Rainfall of 10 to 20 inches occurred over most of the county heavily damaging the county's cotton crop. In the town of Haskell the sewage plant was damaged. Throughout the county, flash flooding destroyed 52 homes, 6 businesses, and 3 public buildings. 100 homes were damaged along with 55 autos and 7 highway bridges.									
Knox and Baylor Counties	4				0	0	?	?	Flash Flooding
Rains of near five inches fell in the southern portions of the two counties. In Knox County, Monday reported 3.39 inches and Knox City 7.99 with flooding reported in both cities. Most damage was confined to agricultural areas.									
Stephens and Young Counties	4-6				0	0	7	7	Flash Flooding
Runoff from the heavy rains in Throckmorton and Schackelford Counties to the immediate west flowed into Stephens and Young Counties. In Stephens County, the Clear Fork of Brazos River was one mile wide from the northwestern portion of the county to Elipsville. Damage in rural areas was near \$500,000. In Young County the river between Elipsville and Graham swelled to two miles wide at places. The Clear Fork flow combined with the flow of the Salt Fork of the Brazos near South Bend. The main thrust of the combined flows moved through Graham the afternoon of August 6. Water also flowed through Elm Creek out of Throckmorton County causing flash flooding. In South Bend, 14 homes were destroyed, and 13 were damaged. Most flooding occurred in west Graham. Fifty homes were destroyed and 335 were damaged. Throughout Young County, nearly 500 homes, 50 businesses, and 50 oil leases were destroyed or damaged.									

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					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS	
TEXAS (continued)										TEXAS (continued)									
NORTHERN										SOUTHERN									
Tarrant County	21	4:15 p			0	0	4	0	Windstorm	Bandera, Kendall, and Kerr Counties	2	Early morning			25	150	8	6	Heavy rain
<p>A thunderstorm developed over southwestern Tarrant County. Straight-line winds damaged roofs of three barns and the porch on the main house of the Charles Latzer farm located about 2 miles southwest of Crowley. A house on the east side of Farm Road 1187 just outside Crowley also sustained minor wind damage. Area was surveyed by the Disaster Preparedness Meteorologist. Winds also blew out a plate glass window at Armstrong-McCall Beauty Supply in south Fort Worth.</p>										<p>A full detailed accounting on a county-by-county basis of property and crop damage resulting from record flash flooding had not been completed by submission time of this report. Total damages for the three federally-declared disaster counties-Bandera, Kerr, and Kendall-had been estimated to be near 50 million dollars. Updated figures on this flood event will be published in subsequent issues of Storm Data as further reports from disaster aid agencies are compiled.</p>									
Dallas County	21	6:00 p			0	0	5	?	Windstorm										
<p>A severe thunderstorm developed over southern Dallas County. Straight-line winds blew down or shorted 100 powerlines and damaged apartment houses at 7100 and 7200 blocks of Skillman and the Woodstock and Kingsley Creek apartments. Winds near 70 MPH were estimated east of Mesquite.</p>										<p>Moisture carried inland with dying Tropical Storm Amelia began producing heavy thunderstorms over a large part of south central Texas on Monday July 31 easing a many-months long drought. Rains were general in coverage but heavy amounts were spotty. Rains became steady and heavier by Tuesday August 1 over the southeastern flank of the Balcones Escarpment due to the high moisture content of the tropical air mass, an upper atmospheric disturbance over northern Mexico, and an uplope low level wind flow onto the escarpment. By the onset of late night hours August 1, some 4 to 8 inches of rain had already fallen on parts of Bandera, Kerr, and Kendall counties. Rains intensified greatly during the late night hours with torrential downpours of at least 20 to 30 inches occurring over western and northern Bandera County and the extreme southern part of Kerr County. Rains of 10 to 15 inches soaked much of other parts of Bandera County. The center of heaviest rains was situated over the headwaters of three separate river systems: the Medina, the Sabinial, and the Guadalupe.</p>									
Rockwell and Kaufman Counties	21	6:15 p			0	0	4	?	Windstorm										
<p>The thunderstorm drifted east across southern Rockwell and northern Kaufman Counties. About one mile north of the dam on Ray Hubbard Lake, the wind was measured at 96 MPH on one gage and 100 MPH on another at the Rush Creek Yacht Club. Some sail boats on the lake had their masts broken.</p>										<p>Bandera County: 14 deaths occurred, an estimated 75 homes were destroyed, another 200 homes were damaged, about 240 businesses sustained damage. A record high crest moved down the upper Medina River during the early morning hours of August 2. About half the city of Medina was damaged by flood waters. The resort camps and ranches downstream from Medina to Bandera were heavily damaged. At Camp Bandera 8 drowning deaths occurred as residents were caught by the extremely rapid rise of water about 2:45 am CST. At Peaceful Valley Ranch 4 persons drowned in a cabin near the river side. In the city of Bandera most buildings in "the loop" area were destroyed or heavily damaged and 2 persons living in that area were drowned. Areas downstream were heavily damaged by the all-time record crest which moved into Lakh Medina, however persons were successfully evacuated and no deaths occurred below the city of Bandera. On the Sabinial River in Bandera County rains of 15 inches caused a near-record crest during early morning hours of August 2. Highway, bridge, and personal property damaged did occur, but no loss of life was reported in the sparsely populated Sabinial Canyon.</p>									
Linden, Cass County	21	5:00 p			0	0	?	?	Windstorm										
<p>High winds from a thunderstorm blew down trees in the southeast part of Linden.</p>										<p>Kerr County: 8 deaths occurred, an estimated 70 homes were destroyed another 200 homes were damaged, 60 businesses were damaged. The area of extremely heavy rains in Bandera County had extended northward over the Verde Creek watershed in southern Kerr County. A record flood crest moved down the creek and into the Center Point area about 4 am CST. All 8 drownings occurred along Verde Creek near Center Point. Many were occupants of mobile homes.</p>									
Wise County	21				0	0	5	0	Lightning Strike										
<p>Lightning struck a television antenna starting a fire that gutted a home in the Lakeview Estates on Lake Bridgeport.</p>										<p>Kendall County: 3 deaths occurred, an estimated 15 homes were destroyed, another 250 received damages, and about 45 businesses were damaged. The Guadalupe River near Comfort had undergone a moderate rise from the previous rains upstream. However it was the sudden inflow of water from Verde Creek which pushed the river stage up so dramatically at Comfort soon after that crest had passed Center Point. Also adding to the river stage was a simultaneous rise on Cypress Creek at Comfort. These coincidental stream crests caused a new all-time record height of the Guadalupe River at Comfort. One person was killed on state highway 27 as the river surged over its banks. One person was drowned in his home at Comfort. The third drowning occurred as a person was swept from a pasture on Block Creek near the Guadalupe River just downstream from Comfort.</p>									
TEXAS										TEXAS									
SOUTHERN										SOUTHERN									
Uvalde County	1	7:00 pm-9:00 pm			0	0	6	5	Heavy rain	Kerr and Gillespie Counties	3	Early morning			2	0	7	6	Heavy rain
<p>Heavy rains in northern Uvalde County sent the small and normally dry Leona River on a sudden 20-foot rise. About 90 high priced homes and a few businesses were damaged by the flood waters in Uvalde city limits and county areas just to the north of the city. Although general rains covered the surrounding area throughout the day, Uvalde had received only between 2 and 3 inches of rain. Apparently a localized downpour just to the north of Uvalde during the afternoon had produced the drastic rise on the stream.</p>										<p>Injury figures were difficult to ascertain. Some 150 persons were rescued from trees, roof tops, and other areas where they sought to escape the flood waters. Those persons suffered varying degrees of injury from battering by debris in the water, from exposure, and from fatigue.</p>									
<p>A second night of intense rains fell just 25 to 35 miles north of the area affected by the previous night's rains. An additional 10 to 15 inches fell on the headwaters of the Guadalupe above Kerrville the night of August 2 and early morning of August 3. This area of heavy rain extended northward into Gillespie County. The Guadalupe River from Hunt to Kerrville was higher than the previous day, but no loss of life occurred and new property damage was limited to areas along the river in Ingram and Hunt and along Goat Creek. At Comfort and downstream the river crested at a lower stage than the previous day but did cause some reflooding of areas already damaged.</p>										<p>In Gillespie County 2 persons drowned when the cattle truck they were driving was washed off Highway 290 at Spring Creek during the early morning hours. A near-record rise moved down the Pedernales River through Gillespie County causing extensive damage to highways, bridges, utilities, farms, and homes near the river.</p>									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1978

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 (continued)									
SOUTHERN									
Dubina, Fayette Co.	3	Evening			1	0	0	0	Lightning
a 15-year old boy was struck and killed by a lightning bolt in a rural area near Dubina. The youth was hauling hay at the time of the incident.									
Houston, Harris Co.	5	2:45 pm	15	*5	0	0	?	?	Wind, Hail
A large severe thunderstorm formed over the extreme northern part of Houston. Wind gusts as high as 70 mph were reported at Houston Intercontinental Airport. Hailstones 3/4 inch in diameter were observed over the area. Damage was apparently light.									
offshore Galveston Island	8	7:00 am	?	?	0	0	0	0	Waterspout
The waterspout was observed in the Gulf of Mexico a few miles offshore from the western end of Galveston Island. No damage occurred to boating.									
offshore Kenedy Co.	9	9:00 am	?	?	0	0	0	0	Waterspouts
Two waterspouts were observed in the Gulf of Mexico 2 to 3 miles south of the Padre Island National Seashore ranger station. These waterspouts moved southward and caused no damage to marine interests.									
Galveston, Galveston Co.	11	7:05 am	?	?	0	0	0	0	Waterspout
The waterspout lasted a short while in the Gulf of Mexico just offshore from downtown Galveston. No damage occurred.									
Groves, Jefferson Co.	14	6:20 am							Funnel cloud
The funnel aloft formed over Groves and moved harmlessly to the northeast before dissipating.									
Vidor, Orange Co.	14	11:35 am							Funnel cloud
The funnel occurred a few miles southwest of Vidor near the Rose City community. It moved east and dissipated quickly.									
Ellington Air Force Base, Harris Co.	19	11:25 am							Funnel cloud
The funnel was observed near the Air Force base as heavy thunderstorms developed over the area. There was no evidence that it touched ground.									
Rosenburg, Fort Bend Co.	20	2:00 pm - 5:00 pm	City-wide		0	0	4	0	Wind
A severe thunderstorm moved over Rosenburg producing wind gusts estimated at 60 mph. Damage resulted over most of the city with signs blown down, windows broken, trees toppled, and utility lines severed.									
Corpus Christi, Nueces Co.	21	1:00 pm							Funnel clouds
Two funnel clouds aloft were observed for a brief period over the south part of the city.									
Driscoll, Nueces Co.	21	1:20 pm	Short Narrow		0	0	0	0	Tornado
A funnel cloud formed near heavy thunderstorms in southwestern Nueces County and briefly touched ground 1 to 4 miles west of the town of Driscoll. Point of touchdown was open cultivated fields so no property damage occurred and crop losses were believed negligible.									
Matagorda Bay, Calhoun Co.	22	9:00 am	?	?	0	0	0	0	Waterspout
The U.S. Coast Guard observed the waterspout near the coast between Port O'Connor and Indianola. It moved northwest and caused no damage.									
Espiritu Santo Bay, Calhoun Co.	23	8:45 am	?	?	0	0	0	0	Waterspout
The U.S. Coast Guard observed this waterspout in the bay about 5 miles south-southwest of Port O'Connor. No damages occurred.									
Orange, Orange Co.	23	3:45 pm							Funnel cloud
The funnel aloft hovered briefly over the city of Orange.									
Annville, Nueces Co.	25	9:00 am	Short Narrow		0	0	0	0	Tornado
What was first reported as a funnel cloud aloft apparently dipped downward to the ground as it passed over the parking lot of Stonewall Bank in Annville. The wind circulation was very weak at surface level and caused no damage.									
Village Mills, Hardin Co.	28	3:20 pm	Short Narrow		0	0	3	0	Tornado
The small twister spun out of an area of thunderstorms associated with Tropical Storm Debra. It briefly touched down 3 1/2 miles southeast of Village Mills or about 2 miles east of US Highway 69 on Farm Road 420. Utility lines and one mobile home near the twister were damaged. The parent thunderstorm moved westward without further incidents.									
offshore Port Aransas, Nueces Co.	30	9:38 am	?	?	0	0	0	0	Waterspout
The waterspout was observed 3/4 mile east of Port Aransas in the Gulf of Mexico. It moved north-northwest and dissipated without causing any damage to marine interests.									

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TEXAS (continued)									
SOUTHERN									
Flour Bluff, Nueces Co.	30	10:20 am							Funnel cloud
The funnel aloft hovered over the town a short while before dissipating.									
Houston, Harris Co.	30	11:00 am							Funnel cloud
The funnel aloft was observed over Dairy-Ashford and Bissonet Roads just southwest of the Houston city limits. It did not touch ground.									
offshore, San Leon, Galveston Co.	30	1:30 pm	?	?	0	0	0	0	Waterspouts
The U.S. Coast Guard observed the spouts in Galveston Bay just offshore from San Leon. The pair moved north and dissipated harmlessly.									
Lavaca Bay, Calhoun Co.	30	1:30 pm	?	?	0	0	0	0	Waterspout
The public reported this waterspout in Lavaca Bay just offshore from the community of Alamo Beach. It moved west parallel to shore and dissipated without doing any damage.									
WASHINGTON									
Kitsap, Snohomish, Skagit Counties	5	2:45 p - 3:30 p							Funnel Clouds
Funnel cloud sighted vicinity Bainbridge Island, and west of Mt. Vernon. No damage reported.									
Lincoln County	15	6:10 p					3		Tornado
A tornado did light damage to the town of Almira. Several trees were blown down along with a storage shed. Some windows were broken and fences were downed. The storm moved across the south portion of town hitting the ground for only brief periods, and moved eastward.									
King County	30	12:00 p - 2:00 p					1	3	Lightning
Lightning caused several fires in the Reaton area. A man next to a tree was injured from lightning on a golf course in Maple Valley.									
WEST VIRGINIA									
Hardy County	3	evening			1	0	4	?	Flash Flooding
Flash flooding occurred around the county. A 34-year old man drowned at 10 pm near Baker. He was washed from his car while trying to drive through rapidly rising water. As much as 4.2 inches of rain reported at Needmore.									
Wetzel County	6	9:00 PM - Midnight			0	0	5	?	Flash Flooding
Hardest hit was the hundred and Burton areas of northeast Wetzel county. A few homes were swept off foundations with many others damaged. Several footbridges washed out.									
Putnam County	11	12:15 AM - 1:30 AM			0	0	5	?	Flash Flooding
Heavy thundershowers hit eastern Putnam county dumping at least 3.5 inches of rain. Hardest hit were Manila and Heizer Creeks. 19 cars and 1 house destroyed. Several homes damaged. Creeks rose 20 to 30 feet above normal.									
Kanawha County	11	1:30 PM - 5:30 PM			0	0	5	?	Flash Flooding
General small stream and urban flooding from Sugar Creek, in extreme northern Charleston, north to the Sissonville area. The Sugar Creek area hit hardest with 3.50 inches of rain in 15 minute period. 20 cars were damaged with 12 private car bridges destroyed. Several homes received water damage.									
Kanawha and Boone Counties	25	evening			0	0	?	?	Strong Thunderstorms
Strong thunderstorms moved across the area. At 4:20 PM 65 mph winds and pea-size hail at Charleston.									
WYOMING									
Platte County	1	5 p. MDT	6	*3	0	0	*4	C	Hail
A late afternoon thunderstorm dumped 3/4 inch hail over 18 square miles of ranch land just north of Wheatland. Widespread crop damage along with some personal property damage was reported.									
Albany County	9	4:45 p. MDT	10	*2	0	0	*4	C	Hail
A rapidly developing thunderstorm did widespread damage to personal property across the University of Wyoming as well as western portions of Laramie. Minor crop damages were also reported in the local area. Hail up to slightly more than 1 inch in diameter was reported at the University by the violent 15-minute storm.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1978

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					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS		
WYOMING (continued)																				
Sweetwater County	13	4 p. MDT	5	* 3	0	0	4	1	Damaging winds											
<p>A fast moving thunderstorm produced surface winds in excess of 70 mph in Rock Springs late Sunday afternoon. Damage to numerous mobile homes, downed trees and power lines was reported by the unusually strong winds.</p>																				
Laramie County	31	1 p. MDT	1	900	0	0	0	0	Tornado											
<p>Air force personnel reported seeing a tornado briefly touch down about 3 miles west of Pine Bluffs and a mile north of Interstate 80. The " . . . long, slim, narrow tornado . . . touched down for less than a minute or so . . . on the open prairie doing no damage.</p>																				

STORM DATA AND UNUSUAL WEATHER PHENOMENA

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

THE FOLLOWING ARE LATE REPORTS, CORRECTIONS, AND DELETIONS:

LATE REPORTS										DELETE									
MARYLAND & D.C.										VIRGINIA									
JUNE 1978										JUNE 1978									
Marshall Hall, Charles County	20	3:10 p	1	50	0	0	3	0	Tornado	Marshall Hall, Charles County	26	3:10 p	1	50	0	0	3	0	Tornado
<p>Small tornado, moving from SW to NE, downed or twisted off some large hardwood trees and destroyed several old barns. No one saw the funnel but residents reported an unusually loud roar. Damage estimated at \$8,500.</p>										<p>Small tornado, moving from SW to NE, downed or twisted off some large hardwood trees and destroyed several old barns. No one saw the funnel but residents reported an unusually loud roar. Damage estimated at \$8,500.</p>									
JULY 1978										JULY 1978									
Lisbon (2S), Howard County	31	8:15 p.	0.8	40	0	0	5	3	Tornado										
<p>A tornado cut an intermittent path as it moved from northwest to southeast, between A. E. Mullink Road and Duval Road. Many trees were uprooted or broken off; one house lost its roof; a barn that was loaded with alfalfa hay and straw, and also housing 42 registered Dorset sheep was destroyed; and several outbuildings were damaged. A one-ton truck was lifted up and overturned several feet from where it was parked. A definite path through cornfields could be traced. The tornado was accompanied by hail and torrential rain. No casualties occurred, but 23 sheep were killed in the barn collapse. Damage was estimated at \$60,000.</p>																			
PUERTO RICO										DELETIONS									
JULY 1978										JULY 1978									
Vieques Sound	7	9:30 a.			0	0	0	0	Waterspout										
Vieques Sound	18	2:30 p.			0	0	0	0	Waterspout										
Hormigueros- Sabana Grande	23	Afternoon			0	0	*4	C	Severe Thunderstorm-High Winds										
<p>A severe thunderstorm accompanied by high winds and heavy rain developed over the western portion of Puerto Rico between Hormigueros and Sabana Grande. High winds blew down three electric towers supporting power lines to the area. A number of trees were also blown down and heavy street flooding occurred as rainfall totaled up to 4.75 inches in the Sabana Grande area. Tornadoic action was reported although unconfirmed.</p>										<p>0 Includes crop damage. C Crop damage. * Miles instead of yards. ** Yards instead of miles. † Storm damages are placed in categories varying 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</p>									
VIRGIN ISLANDS										NOTES									
JULY 1978										JULY 1978									
8 Miles West of St. Croix	18	11:10 a.			0	0	0	0	Waterspout	<p>Note: This publication contains our best information on storms but, due to the difficulties inherent in collection of the type of data, it is not all-inclusive. Late Reports and Corrections will be carried in the month following receipt of these data.</p>									
7 Miles West of St. Thomas	18	2:00 p.			0	0	0	0	Waterspout	<p>SUBSCRIPTION PRICE: \$3.60 per year; \$4.80 additional for foreign mailing; 30c single copy. There is a minimum charge of \$2.00 for each order of shelf-stocked issues of publications. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, NC 28801. Attn: Publications.</p>									
CORRECTIONS										USCOMM-NOAA-ASHEVILLE, N.C. 1978-1700									
MONTANA										USCOMM-NOAA-ASHEVILLE, N.C. 1978-1700									
JUNE 1978										JUNE 1978									
Big Horn County	24	evening	?	?	0	0	5	0	Tornado										
<p>Public reported a possible tornado totally demolished a mobile home and uprooted large cotton wood trees near Hardin.</p>																			
HAWAII										USCOMM-NOAA-ASHEVILLE, N.C. 1978-1700									
JULY 1978										JULY 1978									
Kapoho-Kalapana, East Hawaii Island	19	noon-night			0	0	5	0	Hurricane Fico										
<p>Forming on 8th near 10N 105W west of Panama, tropical cyclone moved westward and strengthened to Hurricane Fico on 10th. Continuing westward Fico passed 200 miles south of South Point, Hawaii on afternoon of 20th with maximum winds of 115 mph. It then turned WNW and ended its career as one of longest-lived hurricanes in Eastern and Central Pacific just NE of Midway Island on 27th. Damage from hurricane was limited to high wave action along eastern Hawaii Island. Surf to 20 ft destroyed one house and heavily damaged three others. Eight other homes were water-damaged. Estimated damages to houses were \$140,000. Road in Kalapana suffered \$44,000 damage. Southern shores of other Hawaiian islands were not damaged.</p>																			

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